



Reliability Report – 54HC14

High Speed CMOS Logic - Hex Schmitt-Trigger Inverter

MIL-PRF-38534 CLASS K QUALIFICATION DATAPACK

Performed by Tandex Test Labs



TANDEX

15849 Business Center Drive, Irwindale, CA 91706, U.S.A.

Phone (626) 962-7166, Fax (626) 960-6896

www.tandexlabs.com

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MIL-PRF-38534 CLASS K DATAPACK

Certificate of Conformance



TANDEX TEST LABS, INC.

15849 Business Center. Dr., Irwindale CA. 91706 U.S.A.

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http://www.tandexlabs.com

e-mail: via web site

Certificate of Conformance

CUSTOMER:	SILICON SUPPLIES LIMITED	DATE: AUGUST 10, 2018
	47 WHERRY ROAD NORWICH, NR1, 1WS UNITED KINGDOM VAT GB#114 3513 56	
TEST REPORT:	DDS-101-06-A	QUANTITY RECEIVED: 30 DIE
P.O. NUMBER:	SS139	QUANTITY REQUIRED: 10/5/8
DESCRIPTION:	CMOS LOGIC MICROCIRCUIT	QUANTITY PROCESSED: 17
PART NUMBER(S):	54HC14	QUANTITY PASSED: 17
P/N: AS RECEIVED / MFG. PART NUMBER:	54HC14	QUANTITY FAILED: 0
LOT / DATE CODE:	1810 LOT# 520361 WF11	
MANUFACTURE: CAGE CODE:	SILICON SUPPLIES	QUANTITY SHIPPING: 17*
		INCLUDES: 10 PROCESS ACCEPT 5 BOND PULL DEVICES 2 SPARES
TANDEX CAGE CODE:	1FE65	*8 DIE TRANSFERRED TO DDS-101-03-W FOR SEM.

METHOD OF TESTING: MIL-PRF-38534 CL. K, MIL-STD-883

I hereby certify that the subject components have been processed and inspected in accordance with instructions with specifications referenced in your purchase order. Physical records and/or data pertinent to applicable military, proprietary, and/or commercial specifications are on file and available upon request for inspection at this facility.



Jessica Iraheta
QUALITY ASSURANCE





MIL-PRF-38534 CLASS K DATAPACK

Process Flow Chart + Mechanical Test Results



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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-06-A REV 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC14 P/N AS RECEIVED: 54HC14
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-06-A
 LDC AS RECEIVED: 1810 LOT# 520361 WF11 QUANTITY RECEIVED: 30 (DIE)
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED: 10.5.8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.	
01	FLO	P-1015 P-1223	FLOW PREPARED BY: <u>LSS</u> ON: <u>3/26/18</u> CONTRACTUAL AGREEMENT REVIEW Y N NOT SPECIFIED <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Q-CLAUSES <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> DPAS <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> DFAR <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ITAR <input type="checkbox"/> <input type="checkbox"/> OTHER SPECIFIED						
02	QCI		TANDEX QUALITY CONTROL INSPECTION. FLOW APPROVED BY: <u>JMI</u> ON: <u>3/26/18</u>						
03	RCV	P-1070	VERIFY PART NUMBER. ENTER INTO INCOMING LOG. <u>X</u> CUSTOMER COUNT	30			3/26/18		
04	VIS	P-1041	PERFORM 100% DIE VISUAL PER MIL-STD-883 METHOD 2010 AND MIL-PRF-38534 PARA C.3.3.2. EQUIPMENT USED: <u>Olympus</u> ASSET #: <u>20091</u>	30	0	30	4/5/18		
05	ASSY	P-1029	PACKAGE SUFFICIENT DEVICES FOR CLASS K ELEMENT EVALUATION / ELECTRICAL AND BOND PULL PER MIL-PRF-38534 REFERENCE DIE GEOMETRY FOR ORIENTATION AND PIN - OUTS. DIE ATTACH: SCREENING EUTETIC BOND PULL Lot#: <u>149555</u> Exp. Date: <u>N/A</u> * Package Type: 14 PIN DIP SEM TRANSFER TO DDS-101-06-W MIL-STD-883 METHOD 2018	10+2 5 8	0 0 0	10+2 5 8	4/13/18 4/13/18 4/5/18		
		P-4010	WIRE BOND: Utilize 1 Mil Au Wire (.001) 1 Mil Au bonder <u>NECHEL</u> Asset #: <u>20060</u> Gold Wire: Lot#: <u>9001887915</u> Exp. Date: <u>3/21/2019</u>	17	0	17	4/13/18		

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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-06-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC14 P/N AS RECEIVED: 54HC14
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-06-A
 LDC AS RECEIVED: 1810 LOT# 520361 WF11 QUANTITY RECEIVED: 30 (DIE)
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED: 10/5/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.
06	VIS		PERFORM 100% INTERNAL VISUAL PER MIL-STD-883 METHOD 2010 & MIL-PRF-38534 C.3.3.3, C.3.3.4.2. EQUIPMENT USED: <u>NIKON SMZ645</u> . ASSET #: <u>30663</u>	17	0	17	4/16/18	TTL 30
ESD MAT DUE DATE:		4/27/18						
07	SEAL		SEAL DEVICES VACUUM BAKE: Pre Seal Bake Time: Temp: <u>125°C</u> Time: <u>24 hrs</u> Actual time in: <u>9:46 am - 4-10-18 LA</u> Actual time out: <u>10:15 am - 4-18-18 LA</u> Actual temp: <u>125°C</u> FURNACE LDC STAMP <u>1815</u> <u>TTL 30</u>	10+2	0	10+2	4/17/18	TTL 30
ESD MAT DUE DATE:		4/27/18						
08	ELEC		PERFORM 100% ELECTRICAL VERIFICATION TEST PER MFG DATA SHEET AND MIL-PRF-38534 @ AMBIENT OPERATING TEMPERATURE GO / NO GO EQUIPMENT USED: <u>Sentray</u> ASSET#: <u>1093</u> +25°C TEST FIXTURE: <u>1377/1201</u> SOFTWARE ID: <u>54HC14</u> REV <u>N/A</u>	10+2	0	10+2	5/14/18	OP TANK
ESD MAT DUE DATE:		1/1/18						
09	TEMP		PERFORM TEMPERATURE CYCLING PER MIL-STD-883 METHOD 1010 CONDITION C & MIL-PRF-38534 C.3.3.3. TEN (10) CYCLES DATE IN TIME IN TA = -65°C +0-10 to +150°C +15-0 10 MINUTES AT EXTREMES DATE OUT TIME OUT EQUIPMENT USED: <u>TENNEY</u> ASSET #: <u>30369</u> EQUIPMENT USED: <u>OMEGA HH309A</u> ASSET #: <u>31667</u>	10+2	0	10+2	5/15/18 11:56 AM	TTL 48
ESD MAT DUE DATE:		5/27/18						
10	ACCE		PERFORM CONSTANT ACCELERATION PER MIL-PRF-38534 MIL-STD-883 METHOD 2001. Y1 DIRECTION ONLY @ 3000 G's (min) EQUIPMENT USED: <u>Trio Tech</u> ASSET #: <u>30260</u>	10+2	0	10+2	5/16/18	TTL 52
ESD MAT DUE DATE:		5/27/18						
11	SER		SERIALIZE S/N: 01-10 S/N: 01-12 4/5/18	10+2	0	10+2	5/17/18	TTL 49
ESD MAT DUE DATE:		5/27/18						

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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-06-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC14 P/N AS RECEIVED: 54HC14
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-06-A
 LDC AS RECEIVED: 1810 LOT# 520361 WF11 QUANTITY RECEIVED: 30 (DIE)
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED: 10/5/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEP	DATE	INSP.
12	ELEC		PERFORM 100% ELECTRICAL VERIFICATION PER MFG DATA SHEET3 AND MIL-PRF-38534 C.3.3.4.3 @ AMBIENT, HIGH AND LOW OPERATING TEMPERATURES. READ AND RECORD. STATIC AND FUNCTIONAL TESTS +25°C 10±2 -55°C 10±2 +125°C 10±2 EQUIPMENT USED: <u>Scout</u> ASSET#: <u>LO 93</u> TEST FIXTURE: <u>1377/120</u> SOFTWARE ID: <u>54HC14</u> REV <u>N/A</u> TEMPERATURE SOAK <u>10</u> SEC.				5/29/18 5/29/18 5/29/18	TTL 10 TTL 10 TTL 10
			ESD MAT DUE DATE: <u>6/29/18.</u>					
13	BI		PERFORM BURN IN PER BURN IN CIRCUIT PER FIGURE 1 OF DWG# 1026-16668, AND MIL-STD 883 METHOD 1015. TA = 125°C (min) T = 240 HRS (min) BURN-IN BOARD # / DESC: <u>31208</u> BURN-IN OVEN #: <u>21</u>				5/31/18 5:20 AM 6/1/18 5:35 AM	TTL 13 TTL 13
			ESD MAT DUE DATE: <u>6/27/18.</u>					
14	ELEC		PERFORM POST BURN IN ELECTRICAL VERIFICATION PER MFG DATA SHEET AND MIL-PRF-38534 C.3.3.4.3 @ AMBIENT, HIGH AND LOW OPERATING TEMPERATURES. READ AND RECORD. STATIC AND FUNCTIONAL TESTS +25°C 12 -55°C 12 +125°C 12 TEST +25°C WITHIN 96 HOURS EQUIPMENT USED: <u>Sony</u> ASSET#: <u>LO 93</u> TEST FIXTURE: <u>377/1269</u> SOFTWARE ID: <u>54HC14</u> REV <u>N/A</u> TEMPERATURE SOAK <u>10</u> SEC.				6/11/18 6/11/18 6/11/18	
			ESD MAT DUE DATE: <u>6/29/18.</u>					
15	ER		PER PO REQUIREMENTS: REVIEW AT POST 240 HR. BURN-IN EMAIL: ben.white@diedevices.com POST 240 HR BURN-IN ELECTRICAL TEST DATA. HOLD FOR APPROVAL TO PROCEED DATE SENT: <u>6/19/18.</u>				6/19/18	QA TANDEX 5

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-06-A

TEMPERATURE TA = +125°C Min

PART NUMBER 54HC14

TEMP. METER # 31368

DATE CODE 1810 LOT# 520361 WFI1

VOLTAGE VCC = +5VDC

BURN-IN TIME 240 hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 31594

BOARD# 31268

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
5/31/18	8:20 AM	VCC = +5VDC	ICC = 5mA	125.5°C	CM	
6/1/18	10:00 AM	VCC = +5VDC	ICC = 5mA	126.9°C	CM	
6/4/18	NO DATA TAKEN					
6/5/18	5:45 AM	VCC = +5VDC	ICC = 5mA	127.0°C	CM	
6/6/18	6:05 AM	VCC = +5VDC	ICC = 5mA	126.7°C	CM	
6/7/18	1:50 PM	VCC = +5VDC	ICC = 5mA	126.4°C	CM	
6/8/18	6:20 AM	VCC = +5VDC	ICC = 5mA	126.1°C	CM	
6/11/18	5:35 AM	VCC = +5VDC	ICC = 5mA	126.8°C	CM	

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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-06-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC14 P/N AS RECEIVED: 54HC14
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-06-A
 LDC AS RECEIVED: 1810 LOT# 520361 WF11 QUANTITY RECEIVED: 30 (DIE)
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED: 10/5/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.
7	SSL		PERFORM STEADY STATE LIFE TEST PER MIL-PRF-38534 AND MIL-STD 883 METHOD 1005. TA = 125°C (min) T = 1000 HRS (min) DATE IN: 6/25/18 TIME IN: 6:00am DATE OUT: 8/16/18 TIME OUT: 2:00am BURN-IN BOARD # / DESC: <u>31253</u> BURN-IN OVEN #: <u>21</u>	12	0	12	6/25/18 6:00am	TTL 13
ESD MAT DUE DATE: <u>8/27/18</u>								
16	ELEC		PERFORM POST STEADY STATE LIFE ELECTRICAL VERIFICATION PER MFG DATA SHEET AND MIL-PRF-38534 C.3.3.4.3. @ AMBIENT, HIGH AND LOW OPERATING TEMPERATURE. READ AND RECORD. STATIC AND FUNCTIONAL TESTS +25°C 12 0 12 8/6/18 -55°C 12 0 12 8/8/18 +125°C 12 0 12 8/18/18 TEST +25°C WITHIN 96 HOURS EQUIPMENT USED: <u>Sentry</u> ASSET#: <u>1093</u> TEST FIXTURE: <u>13771</u> SOFTWARE ID: <u>54HC14</u> REV _____	12	0	12	8/6/18	TTL 33
ESD MAT DUE DATE: <u>8/27/18</u>								
18	DBP		PERFORM WIRE BOND PULL PER MIL-STD-883 METHOD 2011, & MIL-PRF-38534 C.3.3.3, C3.3.5. TEN (10) WIRES, *DO NOT USE ELECTRICAL TEST SAMPLES* EQUIPMENT USED: <u>PAGE</u> ASSET #: <u>30785</u>	5	0	5	7/17/18	#4
19	SEM		PULLED 8 DEVICES AT SEQ. 05 AND TRANSFERRED TO: DDS-101-06-W	8	0	8	4/5/18	TTL

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-06-A

TEMPERATURE TA = +125°C Min

PART NUMBER 54H114

TEMP. METER # 31368

DATE CODE 1810 LOT# 520361 WFLC

VOLTAGE VCC = +5VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 31110

BOARD# 31253

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
6/25/18	6:00AM	VCC = +5VDC	ICC = 5mA	126.5°C	CM	
6/26/18	7:30AM	VCC = +5VDC	ICC = 5mA	126.9°C	CM	
6/27/18	7:15AM	VCC = +5VDC	ICC = 5mA	126.1°C	CM	
6/28/18	8:55AM	VCC = +5VDC	ICC = 5mA	126.6°C	CM	
6/29/18	6:00AM	VCC = +5VDC	ICC = 5mA	127.7°C	CM	
7/2/18	5:30AM	VCC = +5VDC	ICC = 5mA	127.7°C	CM	
7/3/18	5:50AM	VCC = +5VDC	ICC = 5mA	127.2°C	CM	
7/4/18	NO	DATA	TAKEN			
7/5/18	6:30AM	VCC = +5VDC	ICC = 5mA	127.5°C	CM	
7/6/18	9:35AM	VCC = +5VDC	ICC = 5mA	128.0°C	CM	

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

PAGE 2 OF 4

JOB NUMBER DDS-101-06-A

TEMPERATURE TA = +125°C Min

PART NUMBER 54 HC14

TEMP. METER # 31368

DATE CODE 1410 Lot # 520361 WFI1

VOLTAGE VCC = +5 VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 31110

BOARD# 31253

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
7/9/18	8:10AM	VCC = +5VDC	ICC = 5mA	128.4°C	CM	
7/10/18	1:10PM	VCC = +5VDC	ICC = 5mA	128.5°C	CM	
7/11/18	10:00AM	VCC = +5VDC	ICC = 5mA	127.7°C	CM	
7/12/18	7:20AM	VCC = +5VDC	ICC = 5mA	127.5°C	CM	
7/13/18	6:05AM	VCC = +5VDC	ICC = 5mA	127.9°C	CM	
7/16/18	6:00AM	VCC = +5VDC	ICC = 5mA	127.6°C	CM	
7/17/18	6:15AM	VCC = +5VDC	ICC = 5mA	128.0°C	CM	
7/18/18	6:00AM	VCC = +5VDC	ICC = 5mA	128.2°C	CM	
7/19/18	NO	DATA	TAKEN			
7/20/18	NO	DATA	TAILED			

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DDJ - 101 - 06 - A

TEMPERATURE TA = +125°C Min

PART NUMBER 54 HC 14

TEMP. METER # 31368

DATE CODE 1810 LOT # 520361 WFK

VOLTAGE VCC = +5 VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 31110

BOARD# 31253

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
7/23/18	NO	DATA	TAKEN			
7/24/18	NO	DATA	TAKEN			
7/25/18	7:25 AM	VCC = +5 VDC	I _{CC} = 5 mA	126.1°C	CM	
7/26/18	6:00 AM	VCC = +5 VDC	I _{CC} = 5 mA	126.4°C	CM	
7/27/18	7:25 AM	VCC = +5 VDC	I _{CC} = 5 mA	126.6°C	CM	
7/30/18	10:50 AM	VCC = +5 VDC	I _{CC} = 5 mA	127.8°C	CM	
7/31/18	6:55 AM	VCC = +5 VDC	I _{CC} = 5 mA	127.6°C	CM	
8/1/18	6:20 AM	VCC = +5 VDC	I _{CC} = 5 mA	128.8°C	CM	
8/2/18	11:10 AM	VCC = +5 VDC	I _{CC} = 5 mA	127.3°C	CM	

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

PAGE 4 OF 4

JOB NUMBER DDS - 101 - 06 - A

TEMPERATURE TA = +125°C Min

PART NUMBER 54 HC 14

TEMP. METER # 31368

DATE CODE (S10 LOT# 52036) WFL

VOLTAGE VCC = +5 VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 31110

BOARD# 31253

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
8/3/18	6:45 AM	VCC = +5V	ICC = 5mA	127.3°C	CM	
8/6/18	6:00 AM	VCC = +5V	ICC = 5mA	126.1°C	CM	

TANDEX TEST LABS TTL# DDS-101-06-A

BOND PULL

BOND STRENGTH TESTING

TTL Job No. DDS-101-06-A	Part Number 54HC14	Part Type CMOS LOGIC MICROCIRCUIT	Date July 17, 2018
Lot Date Code LOT# 520361 W# 11 1810	Sample Qty. 5	Serial Numbers 11-15	Test Specifications Mil-Std-883 Method 2011
Misc.	Qty Accept 5	Qty Reject 0	Suspect 0

WIRE TYPE Au	PACKAGE/POST Au	BOND TYPE BALL BOND
DIE METALIZATION Al	WIRE SIZE 0.001	MINIMUM PULL STRENGTH 2.5gm

S/N 11			S/N 12			S/N 13			S/N 14			S/N 15			S/N		
WIRE NO	FORCE	CODE	WIRE NO	FORCE	CODE	WIRE NO	FORCE	CODE	WIRE NO	FORCE	CODE	WIRE NO	FORCE	CODE	WIRE NO	FORCE	CODE
1	4.0	G	1	5.5	G	1	3.0	G	1	4.0	G	1	5.0	G	1		
2	4.5	G	2	4.5	G	2	6.0	G	2	3.5	G	2	5.0	G	2		
3			3			3			3			3			3		
4			4			4			4			4			4		
5			5			5			5			5			5		

CODE INDEX

- A. NO BREAKS UP TO _____gms.
- B. BOND LIFTS FROM DIE.
- C. BOND LIFTS FROM POST.
- D. WIRE BREAKS AT SUBSTRATE/HEAL.
- E. BOND REMOVES UNDERLYING METALLIZATION.
- F. NO CONNECTION.
- G. WIRE BREAKS AT DIE/HEAL.
- H. WIRE BREAKS AT POST/HEAL.
- J. WIRE BREAKS AT SPAN.
- X. BOND DAMAGE PRIOR TO TESTING.



TECHNICIAN STAMP: _____

TANDEX TEST LABS INC.

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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-06-A REV. 0

CUSTOMER:	DIE DEVICES	P.O. NUMBER:	SS139
PART NUMBER:	54HC14	P/N AS RECEIVED:	54HC14
PART TYPE:	CMOS LOGIC MICROCIRCUIT	DRAWING:	MIL-PRF-38534 CL K, MIL-STD-883
DUE DATE:	7/12/18	JOB NUMBER:	DDS-101-06-A
LDC AS RECEIVED:	1810 LOT# 520361 WF11	QUANTITY RECEIVED:	30 (DIE)
QUOTE NUMBER:	DDS14267-1 MFG: SILICON SUPPLIES	QUANTITY REQUIRED:	10/5/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.
20	QCI	P-1073	TANDEX QUALITY CONTROL INSPECTION. QCI TO VERIFY CAR IN SEQ. 01 IS COMPLIANT	17	0	17	8/10/18	QA TANDEX 7
21	PKG		USE ORIGINAL OR TANDEX PACKAGING.	17	0	17	8/10/18	QA TANDEX 7
22	QAR	P-1213	TANDEX QUALITY ASSURANCE REVIEW. SHIP VIA: SHIP / BILL TO: DIE DEVICES 47 WHERRY ROAD NORWICH, NRI, IWS UNITED KINGDOM VAT GB#114 3513 56 <i>* Includes: 5 Bond Pull Samples 10 Process Accepts 2 spares. ** 8 parts transferred to DDS-101-06-W for SEM.</i>	17			8/10/18	QA TANDEX 7



MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at -55°C



STAT1 05/29/11 07:07
 TEST PROGRAM 4HC14 S/N 1
 DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-710.0MV	-1.500 V	-100.0MV
57	3	-710.0MV	-1.500 V	-100.0MV
57	5	-710.0MV	-1.500 V	-100.0MV
57	9	-710.0MV	-1.500 V	-100.0MV
57	11	-710.0MV	-1.500 V	-100.0MV
57	13	-710.0MV	-1.500 V	-100.0MV
57	14	-590.0MV	-1.500 V	-100.0MV
67	2	640.0MV	100.0MV	1.500 V
67	4	640.0MV	100.0MV	1.500 V
67	6	640.0MV	100.0MV	1.500 V
67	8	640.0MV	100.0MV	1.500 V
67	10	640.0MV	100.0MV	1.500 V
67	12	640.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 300.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.980 V	1.900 V	
219	12	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 3
 VIH= 2.150 VIL= 500.0E-03

 VOH1 TEST
 VCC= 3
 VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
189	2	2.980 V	2.900 V	
195	4	2.980 V	2.900 V	
201	6	2.970 V	2.900 V	

207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

 VOH2 TEST
 VCC= 3
 VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.790 V	2.480 V	
248	4	2.820 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.820 V	2.480 V	
266	10	2.820 V	2.480 V	
272	12	2.830 V	2.480 V	

 VOL1 TEST
 VCC= 3
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

 VOL2 TEST
 VCC= 3
 VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		260.0MV
352	4	68.00MV		260.0MV
358	6	60.00MV		260.0MV
364	8	70.00MV		260.0MV
370	10	76.00MV		260.0MV
376	12	64.00MV		260.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 900.0E-03

 VOH1 TEST
 VCC= 4.500
 VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

 VOH2 TEST
 VCC= 4.500
 VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
242	2	4.250 V	3.980 V	
248	4	4.270 V	3.980 V	
254	6	4.290 V	3.980 V	

260	8	4.270 V	3.980 V
266	10	4.270 V	3.980 V
272	12	4.290 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	118.0MV		260.0MV
352	4	120.0MV		260.0MV
358	6	70.00MV		260.0MV
364	8	84.00MV		260.0MV
370	10	94.00MV		260.0MV
376	12	74.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.770 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.810 V	5.480 V	
260	8	5.790 V	5.480 V	
266	10	5.780 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV

311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	116.0MV		260.0MV
352	4	100.0MV		260.0MV
358	6	74.00MV		260.0MV
364	8	92.00MV		260.0MV
370	10	98.00MV		260.0MV
376	12	78.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	1	1.500
3	519		1.200	1	1.500
5	519		1.240	1	1.500
9	519		1.280	1	1.500
11	519		1.320	1	1.500
13	519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		600.0E-03	300.0E-03	900.0E-03
3	567		560.0E-03	300.0E-03	900.0E-03
5	567		520.0E-03	300.0E-03	900.0E-03
9	567		480.0E-03	300.0E-03	900.0E-03
11	567		440.0E-03	300.0E-03	900.0E-03
13	567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)
VCC= 2
MIN= 200.0E-03
MAX= 1.200

```

-----
INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  586      560.0E-03    200.0E-03    1.200
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  586      640.0E-03    200.0E-03    1.200
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  586      720.0E-03    200.0E-03    1.200
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  586      800.0E-03    200.0E-03    1.200
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  586      880.0E-03    200.0E-03    1.200
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  586      960.0E-03    200.0E-03    1.200

```

```

-----
VTP TEST (VT+)
VCC=      3
MIN=    1.500
MAX=    2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  519      1.700      1.500      2.150
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  519      1.740      1.500      2.150
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  519      1.780      1.500      2.150
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  519      1.820      1.500      2.150
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  519      1.860      1.500      2.150
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  519      1.900      1.500      2.150

```

```

-----
VTN TEST (VT-)
VCC=      3
MIN=    500.0E-03
MAX=    1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  567      939.8E-03    500.0E-03    1.450
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  567      899.8E-03    500.0E-03    1.450
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  567      859.8E-03    500.0E-03    1.450
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  567      819.8E-03    500.0E-03    1.450
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  567      779.8E-03    500.0E-03    1.450
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  567      739.9E-03    500.0E-03    1.450

```

```

-----
VH TEST (HYSTERESIS)

```

VCC= 3
MIN= 250.0E-03
MAX= 1.650

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 760.4E-03 250.0E-03 1.650
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 840.4E-03 250.0E-03 1.650
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 920.4E-03 250.0E-03 1.650
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 1.000 250.0E-03 1.650
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 1.080 250.0E-03 1.650
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 1.160 250.0E-03 1.650

VTP TEST (VT+)
VCC= 4.500
MIN= 2.300
MAX= 3.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 2.400 2.300 3.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 2.440 2.300 3.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 2.480 2.300 3.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 2.520 2.300 3.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 2.560 2.300 3.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 2.600 2.300 3.150

VTN TEST (VT-)
VCC= 4.500
MIN= 900.0E-03
MAX= 2
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.520 900.0E-03 2
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 1.480 900.0E-03 2
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 1.440 900.0E-03 2
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 1.400 900.0E-03 2
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 1.360 900.0E-03 2
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 1.320 900.0E-03 2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		879.7E-03	400.0E-03	2.250
3	586		959.7E-03	400.0E-03	2.250
5	586		1.040	400.0E-03	2.250
9	586		1.120	400.0E-03	2.250
11	586		1.200	400.0E-03	2.250
13	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		3.120	3	4.200
3	519		3.160	3	4.200
5	519		3.200	3	4.200
9	519		3.240	3	4.200
11	519		3.280	3	4.200
13	519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		2.061	1.200	2.600
3	567		2.021	1.200	2.600
5	567		1.981	1.200	2.600
9	567		1.941	1.200	2.600
11	567		1.901	1.200	2.600

```

INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.861      1.200      2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA  -100.0NA  100.0NA
   622      1   2.000NA  -100.0NA  100.0NA
   627      3  -4.000NA  -100.0NA  100.0NA
   630      3   2.000NA  -100.0NA  100.0NA
   635      5  -5.000NA  -100.0NA  100.0NA
   638      5   2.000NA  -100.0NA  100.0NA
   643      9  -5.000NA  -100.0NA  100.0NA
   646      9   2.000NA  -100.0NA  100.0NA
   651     11  -5.000NA  -100.0NA  100.0NA
   654     11   2.000NA  -100.0NA  100.0NA
   659     13  -5.000NA  -100.0NA  100.0NA
   662     13   2.000NA  -100.0NA  100.0NA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14   6.000NA      LT      1.000UA
INST #  PIN  MEASURED      LT      GT
   698     14   6.000NA      LT      1.000UA

```

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 2

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-700.0MV	-1.500 V	-100.0MV
57	3	-710.0MV	-1.500 V	-100.0MV
57	5	-710.0MV	-1.500 V	-100.0MV
57	9	-710.0MV	-1.500 V	-100.0MV
57	11	-710.0MV	-1.500 V	-100.0MV
57	13	-710.0MV	-1.500 V	-100.0MV
57	14	-590.0MV	-1.500 V	-100.0MV
67	2	630.0MV	100.0MV	1.500 V
67	4	630.0MV	100.0MV	1.500 V
67	6	630.0MV	100.0MV	1.500 V
67	8	630.0MV	100.0MV	1.500 V
67	10	630.0MV	100.0MV	1.500 V
67	12	630.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.980 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.800 V	2.480 V	
254	6	2.840 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.830 V	2.480 V	
272	12	2.830 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	90.00MV		260.0MV
352	4	106.0MV		260.0MV
358	6	58.00MV		260.0MV
364	8	96.00MV		260.0MV
370	10	70.00MV		260.0MV
376	12	62.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.270 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.300 V	3.980 V
260	8	4.260 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.290 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	98.00MV		260.0MV
352	4	128.0MV		260.0MV
358	6	66.00MV		260.0MV
364	8	100.0MV		260.0MV
370	10	86.00MV		260.0MV
376	12	74.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.780 V	5.480 V	
248	4	5.740 V	5.480 V	
254	6	5.810 V	5.480 V	
260	8	5.780 V	5.480 V	
266	10	5.790 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	100.0MV		260.0MV
352	4	118.0MV		260.0MV
358	6	70.00MV		260.0MV
364	8	92.00MV		260.0MV
370	10	92.00MV		260.0MV
376	12	76.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		760.4E-03	250.0E-03	1.650
3	586		840.4E-03	250.0E-03	1.650
5	586		920.4E-03	250.0E-03	1.650
9	586		1.000	250.0E-03	1.650
11	586		1.080	250.0E-03	1.650
13	586		1.160	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.120	3	4.200
					3
	519		3.160	3	4.200
					5
	519		3.200	3	4.200
					9
	519		3.240	3	4.200
					11
	519		3.280	3	4.200
					13
	519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.061	1.200	2.600
					3
	567		2.021	1.200	2.600
					5
	567		1.981	1.200	2.600
					9
	567		1.941	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.861    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -5.000NA    -100.0NA    100.0NA
   638    5  3.000NA    -100.0NA    100.0NA
   643    9  -7.000NA    -100.0NA    100.0NA
   646    9  4.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  37.00NA    1.000UA
INST #  PIN  MEASURED      LT      GT
   691   14  36.00NA    1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 3

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-720.0MV	-1.500 V	-100.0MV
57	3	-720.0MV	-1.500 V	-100.0MV
57	5	-720.0MV	-1.500 V	-100.0MV
57	9	-720.0MV	-1.500 V	-100.0MV
57	11	-720.0MV	-1.500 V	-100.0MV
57	13	-720.0MV	-1.500 V	-100.0MV
57	14	-600.0MV	-1.500 V	-100.0MV
67	2	650.0MV	100.0MV	1.500 V
67	4	640.0MV	100.0MV	1.500 V
67	6	640.0MV	100.0MV	1.500 V
67	8	640.0MV	100.0MV	1.500 V
67	10	640.0MV	100.0MV	1.500 V
67	12	650.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.810 V	2.480 V	
248	4	2.820 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.820 V	2.480 V	
272	12	2.830 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	80.00MV		260.0MV
352	4	66.00MV		260.0MV
358	6	62.00MV		260.0MV
364	8	94.00MV		260.0MV
370	10	74.00MV		260.0MV
376	12	66.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.460 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.260 V	3.980 V
248	4	4.280 V	3.980 V
254	6	4.290 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.270 V	3.980 V
272	12	4.290 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	98.00MV		260.0MV
352	4	74.00MV		260.0MV
358	6	74.00MV		260.0MV
364	8	102.0MV		260.0MV
370	10	90.00MV		260.0MV
376	12	78.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.780 V	5.480 V	
248	4	5.800 V	5.480 V	
254	6	5.800 V	5.480 V	
260	8	5.780 V	5.480 V	
266	10	5.780 V	5.480 V	
272	12	5.800 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	102.0MV		260.0MV
352	4	78.00MV		260.0MV
358	6	76.00MV		260.0MV
364	8	100.0MV		260.0MV
370	10	98.00MV		260.0MV
376	12	80.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		760.4E-03	250.0E-03	1.650
3	586		840.4E-03	250.0E-03	1.650
5	586		920.4E-03	250.0E-03	1.650
9	586		1.000	250.0E-03	1.650
11	586		1.080	250.0E-03	1.650
13	586		1.160	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.941	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.861    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.099    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.179    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.259    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.339    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.419    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.499    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -11.00NA   -100.0NA    100.0NA
   638    5  9.000NA     -100.0NA    100.0NA
   643    9  -12.00NA   -100.0NA    100.0NA
   646    9  9.000NA     -100.0NA    100.0NA
   651   11  -5.000NA    -100.0NA    100.0NA
   654   11  3.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  124.0NA      LT      1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  125.0NA      LT      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 4

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-720.0MV	-1.500 V	-100.0MV
57	3	-720.0MV	-1.500 V	-100.0MV
57	5	-720.0MV	-1.500 V	-100.0MV
57	9	-720.0MV	-1.500 V	-100.0MV
57	11	-720.0MV	-1.500 V	-100.0MV
57	13	-720.0MV	-1.500 V	-100.0MV
57	14	-600.0MV	-1.500 V	-100.0MV
67	2	640.0MV	100.0MV	1.500 V
67	4	640.0MV	100.0MV	1.500 V
67	6	650.0MV	100.0MV	1.500 V
67	8	650.0MV	100.0MV	1.500 V
67	10	640.0MV	100.0MV	1.500 V
67	12	640.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.820 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.790 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.830 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	88.00MV		260.0MV
352	4	68.00MV		260.0MV
358	6	64.00MV		260.0MV
364	8	102.0MV		260.0MV
370	10	76.00MV		260.0MV
376	12	68.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.260 V	3.980 V
248	4	4.280 V	3.980 V
254	6	4.280 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.270 V	3.980 V
272	12	4.280 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		260.0MV
352	4	78.00MV		260.0MV
358	6	74.00MV		260.0MV
364	8	106.0MV		260.0MV
370	10	90.00MV		260.0MV
376	12	80.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.770 V	5.480 V	
248	4	5.790 V	5.480 V	
254	6	5.800 V	5.480 V	
260	8	5.770 V	5.480 V	
266	10	5.780 V	5.480 V	
272	12	5.800 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	108.0MV		260.0MV
352	4	80.00MV		260.0MV
358	6	76.00MV		260.0MV
364	8	106.0MV		260.0MV
370	10	98.00MV		260.0MV
376	12	84.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		760.4E-03	250.0E-03	1.650
3	586		840.4E-03	250.0E-03	1.650
5	586		920.4E-03	250.0E-03	1.650
9	586		1.000	250.0E-03	1.650
11	586		1.080	250.0E-03	1.650
13	586		1.160	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -18.00NA    -100.0NA    100.0NA
   638    5  13.00NA    -100.0NA    100.0NA
   643    9  -21.00NA    -100.0NA    100.0NA
   646    9  18.00NA    -100.0NA    100.0NA
   651   11  -8.000NA    -100.0NA    100.0NA
   654   11  9.000NA    -100.0NA    100.0NA
   659   13  -20.00NA    -100.0NA    100.0NA
   662   13  20.00NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  280.0NA      LT      1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  270.0NA      LT      1.000UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 5

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-730.0MV	-1.500 V	-100.0MV
57	3	-730.0MV	-1.500 V	-100.0MV
57	5	-730.0MV	-1.500 V	-100.0MV
57	9	-730.0MV	-1.500 V	-100.0MV
57	11	-730.0MV	-1.500 V	-100.0MV
57	13	-730.0MV	-1.500 V	-100.0MV
57	14	-610.0MV	-1.500 V	-100.0MV
67	2	660.0MV	100.0MV	1.500 V
67	4	660.0MV	100.0MV	1.500 V
67	6	660.0MV	100.0MV	1.500 V
67	8	660.0MV	100.0MV	1.500 V
67	10	660.0MV	100.0MV	1.500 V
67	12	660.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.820 V	2.480 V	
248	4	2.830 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.830 V	2.480 V	
272	12	2.840 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	72.00MV		260.0MV
352	4	58.00MV		260.0MV
358	6	60.00MV		260.0MV
364	8	96.00MV		260.0MV
370	10	68.00MV		260.0MV
376	12	62.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.280 V	3.980 V
248	4	4.290 V	3.980 V
254	6	4.290 V	3.980 V
260	8	4.270 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.290 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	88.000MV		260.0MV
352	4	68.000MV		260.0MV
358	6	68.000MV		260.0MV
364	8	96.000MV		260.0MV
370	10	84.000MV		260.0MV
376	12	72.000MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.790 V	5.480 V	
248	4	5.810 V	5.480 V	
254	6	5.810 V	5.480 V	
260	8	5.790 V	5.480 V	
266	10	5.790 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	96.00MV		260.0MV
352	4	70.00MV		260.0MV
358	6	68.00MV		260.0MV
364	8	94.00MV		260.0MV
370	10	90.00MV		260.0MV
376	12	74.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		760.4E-03	250.0E-03	1.650
3	586		840.4E-03	250.0E-03	1.650
5	586		920.4E-03	250.0E-03	1.650
9	586		1.000	250.0E-03	1.650
11	586		1.080	250.0E-03	1.650
13	586		1.160	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.941	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.861    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.099    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.179    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.259    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.339    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.419    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.499    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -100.0NA    100.0NA
   622    1  3.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -66.00NA    -100.0NA    100.0NA
   638    5  62.00NA    -100.0NA    100.0NA
   643    9  -32.00NA    -100.0NA    100.0NA
   646    9  28.00NA    -100.0NA    100.0NA
   651   11  -6.000NA    -100.0NA    100.0NA
   654   11  3.000NA    -100.0NA    100.0NA
   659   13  -26.00NA    -100.0NA    100.0NA
   662   13  15.00NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  635.0NA      LT      1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  625.0NA      LT      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 6

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-690.0MV	-1.500 V	-100.0MV
57	3	-690.0MV	-1.500 V	-100.0MV
57	5	-690.0MV	-1.500 V	-100.0MV
57	9	-690.0MV	-1.500 V	-100.0MV
57	11	-690.0MV	-1.500 V	-100.0MV
57	13	-690.0MV	-1.500 V	-100.0MV
57	14	-560.0MV	-1.500 V	-100.0MV
67	2	610.0MV	100.0MV	1.500 V
67	4	620.0MV	100.0MV	1.500 V
67	6	610.0MV	100.0MV	1.500 V
67	8	610.0MV	100.0MV	1.500 V
67	10	630.0MV	100.0MV	1.500 V
67	12	610.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.980 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.980 V	1.900 V	
207	8	1.980 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.930 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.790 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.820 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	94.00MV		260.0MV
352	4	78.00MV		260.0MV
358	6	66.00MV		260.0MV
364	8	92.00MV		260.0MV
370	10	88.00MV		260.0MV
376	12	70.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.250 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.280 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.260 V	3.980 V
272	12	4.280 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	108.0MV		260.0MV
352	4	156.0MV		260.0MV
358	6	78.00MV		260.0MV
364	8	106.0MV		260.0MV
370	10	100.0MV		260.0MV
376	12	86.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.770 V	5.480 V	
248	4	5.760 V	5.480 V	
254	6	5.800 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.780 V	5.480 V	
272	12	5.790 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	112.0MV		260.0MV
352	4	116.0MV		260.0MV
358	6	82.00MV		260.0MV
364	8	104.0MV		260.0MV
370	10	98.00MV		260.0MV
376	12	90.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -11.00NA   -100.0NA    100.0NA
   638    5  10.00NA    -100.0NA    100.0NA
   643    9  -6.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -7.000NA    -100.0NA    100.0NA
   662   13  4.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  43.00NA     1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  45.00NA     1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 7

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-700.0MV	-1.500 V	-100.0MV
57	3	-700.0MV	-1.500 V	-100.0MV
57	5	-700.0MV	-1.500 V	-100.0MV
57	9	-700.0MV	-1.500 V	-100.0MV
57	11	-700.0MV	-1.500 V	-100.0MV
57	13	-700.0MV	-1.500 V	-100.0MV
57	14	-580.0MV	-1.500 V	-100.0MV
67	2	620.0MV	100.0MV	1.500 V
67	4	620.0MV	100.0MV	1.500 V
67	6	620.0MV	100.0MV	1.500 V
67	8	620.0MV	100.0MV	1.500 V
67	10	620.0MV	100.0MV	1.500 V
67	12	620.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.980 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

 VOH2 TEST
 VCC= 3
 VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.820 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.820 V	2.480 V	
266	10	2.820 V	2.480 V	
272	12	2.830 V	2.480 V	

 VOL1 TEST
 VCC= 3
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

 VOL2 TEST
 VCC= 3
 VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	96.00MV		260.0MV
352	4	72.00MV		260.0MV
358	6	62.00MV		260.0MV
364	8	72.00MV		260.0MV
370	10	72.00MV		260.0MV
376	12	68.00MV		260.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 900.0E-03

 VOH1 TEST
 VCC= 4.500
 VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.460 V	4.400 V	

 VOH2 TEST
 VCC= 4.500
 VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.250 V	3.980 V
248	4	4.270 V	3.980 V
254	6	4.290 V	3.980 V
260	8	4.270 V	3.980 V
266	10	4.270 V	3.980 V
272	12	4.280 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	116.0MV		260.0MV
352	4	100.0MV		260.0MV
358	6	74.00MV		260.0MV
364	8	88.00MV		260.0MV
370	10	86.00MV		260.0MV
376	12	78.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.770 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.800 V	5.480 V	
260	8	5.780 V	5.480 V	
266	10	5.790 V	5.480 V	
272	12	5.800 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	116.0MV		260.0MV
352	4	96.00MV		260.0MV
358	6	76.00MV		260.0MV
364	8	96.00MV		260.0MV
370	10	92.00MV		260.0MV
376	12	84.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		760.4E-03	250.0E-03	1.650
3	586		840.4E-03	250.0E-03	1.650
5	586		920.4E-03	250.0E-03	1.650
9	586		1.000	250.0E-03	1.650
11	586		1.080	250.0E-03	1.650
13	586		1.160	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.941	1.200	2.600

```

INPUT PIN IS      11
INST # PIN MEASURED LT GT
567 1.901 1.200 2.600
INPUT PIN IS      13
INST # PIN MEASURED LT GT
567 1.861 1.200 2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

```

INPUT PIN IS      1
INST # PIN MEASURED LT GT
586 1.099 500.0E-03 3
INPUT PIN IS      3
INST # PIN MEASURED LT GT
586 1.179 500.0E-03 3
INPUT PIN IS      5
INST # PIN MEASURED LT GT
586 1.259 500.0E-03 3
INPUT PIN IS      9
INST # PIN MEASURED LT GT
586 1.339 500.0E-03 3
INPUT PIN IS     11
INST # PIN MEASURED LT GT
586 1.419 500.0E-03 3
INPUT PIN IS     13
INST # PIN MEASURED LT GT
586 1.499 500.0E-03 3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
619 1 -4.000NA -100.0NA 100.0NA
622 1 2.000NA -100.0NA 100.0NA
627 3 -4.000NA -100.0NA 100.0NA
630 3 2.000NA -100.0NA 100.0NA
635 5 -16.00NA -100.0NA 100.0NA
638 5 14.00NA -100.0NA 100.0NA
643 9 -4.000NA -100.0NA 100.0NA
646 9 2.000NA -100.0NA 100.0NA
651 11 -4.000NA -100.0NA 100.0NA
654 11 2.000NA -100.0NA 100.0NA
659 13 -4.000NA -100.0NA 100.0NA
662 13 2.000NA -100.0NA 100.0NA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
691 14 19.00NA 1.000UA
INST # PIN MEASURED LT GT
698 14 20.00NA 1.000UA

```

```

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 8

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-740.0MV	-1.500 V	-100.0MV
57	3	-730.0MV	-1.500 V	-100.0MV
57	5	-730.0MV	-1.500 V	-100.0MV
57	9	-740.0MV	-1.500 V	-100.0MV
57	11	-730.0MV	-1.500 V	-100.0MV
57	13	-740.0MV	-1.500 V	-100.0MV
57	14	-620.0MV	-1.500 V	-100.0MV
67	2	660.0MV	100.0MV	1.500 V
67	4	660.0MV	100.0MV	1.500 V
67	6	660.0MV	100.0MV	1.500 V
67	8	660.0MV	100.0MV	1.500 V
67	10	660.0MV	100.0MV	1.500 V
67	12	660.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.830 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.840 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.830 V	2.480 V	
272	12	2.840 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	70.00MV		260.0MV
352	4	92.00MV		260.0MV
358	6	58.00MV		260.0MV
364	8	92.00MV		260.0MV
370	10	64.00MV		260.0MV
376	12	62.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.280 V	3.980 V
248	4	4.250 V	3.980 V
254	6	4.300 V	3.980 V
260	8	4.270 V	3.980 V
266	10	4.290 V	3.980 V
272	12	4.300 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	88.00MV		260.0MV
352	4	198.0MV		260.0MV
358	6	68.00MV		260.0MV
364	8	96.00MV		260.0MV
370	10	80.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.790 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.810 V	5.480 V	
260	8	5.780 V	5.480 V	
266	10	5.800 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	96.00MV		260.0MV
352	4	110.0MV		260.0MV
358	6	70.00MV		260.0MV
364	8	102.0MV		260.0MV
370	10	84.00MV		260.0MV
376	12	76.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		760.4E-03	250.0E-03	1.650
3	586		840.4E-03	250.0E-03	1.650
5	586		920.4E-03	250.0E-03	1.650
9	586		1.000	250.0E-03	1.650
11	586		1.080	250.0E-03	1.650
13	586		1.160	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.120	3	4.200
					3
	519		3.160	3	4.200
					5
	519		3.200	3	4.200
					9
	519		3.240	3	4.200
					11
	519		3.280	3	4.200
					13
	519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.061	1.200	2.600
					3
	567		2.021	1.200	2.600
					5
	567		1.981	1.200	2.600
					9
	567		1.941	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.861    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -40.00NA   -100.0NA    100.0NA
   638    5  40.00NA    -100.0NA    100.0NA
   643    9  -28.00NA   -100.0NA    100.0NA
   646    9  23.00NA    -100.0NA    100.0NA
   651   11  -6.000NA   -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -6.000NA   -100.0NA    100.0NA
   662   13  4.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  184.0NA    1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  190.0NA    1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 9

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-700.0MV	-1.500 V	-100.0MV
57	3	-700.0MV	-1.500 V	-100.0MV
57	5	-700.0MV	-1.500 V	-100.0MV
57	9	-700.0MV	-1.500 V	-100.0MV
57	11	-700.0MV	-1.500 V	-100.0MV
57	13	-700.0MV	-1.500 V	-100.0MV
57	14	-580.0MV	-1.500 V	-100.0MV
67	2	620.0MV	100.0MV	1.500 V
67	4	630.0MV	100.0MV	1.500 V
67	6	620.0MV	100.0MV	1.500 V
67	8	620.0MV	100.0MV	1.500 V
67	10	630.0MV	100.0MV	1.500 V
67	12	620.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.980 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.960 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.820 V	2.480 V	
248	4	2.800 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.820 V	2.480 V	
266	10	2.820 V	2.480 V	
272	12	2.830 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	74.00MV		260.0MV
352	4	90.00MV		260.0MV
358	6	62.00MV		260.0MV
364	8	66.00MV		260.0MV
370	10	70.00MV		260.0MV
376	12	66.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.270 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.290 V	3.980 V
260	8	4.280 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.290 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	92.00MV		260.0MV
352	4	110.0MV		260.0MV
358	6	70.00MV		260.0MV
364	8	78.00MV		260.0MV
370	10	82.00MV		260.0MV
376	12	76.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.780 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.810 V	5.480 V	
260	8	5.790 V	5.480 V	
266	10	5.800 V	5.480 V	
272	12	5.800 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	98.00MV		260.0MV
352	4	110.0MV		260.0MV
358	6	72.00MV		260.0MV
364	8	84.00MV		260.0MV
370	10	86.00MV		260.0MV
376	12	80.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		760.4E-03	250.0E-03	1.650
3	586		840.4E-03	250.0E-03	1.650
5	586		920.4E-03	250.0E-03	1.650
9	586		1.000	250.0E-03	1.650
11	586		1.080	250.0E-03	1.650
13	586		1.160	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.120	3	4.200
					3
	519		3.160	3	4.200
					5
	519		3.200	3	4.200
					9
	519		3.240	3	4.200
					11
	519		3.280	3	4.200
					13
	519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.061	1.200	2.600
					3
	567		2.021	1.200	2.600
					5
	567		1.981	1.200	2.600
					9
	567		1.941	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.861    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -8.000NA    -100.0NA    100.0NA
   638    5  5.000NA    -100.0NA    100.0NA
   643    9  -5.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  8.000NA      LT      1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  9.000NA      LT      1.000UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 10

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-720.0MV	-1.500 V	-100.0MV
57	3	-720.0MV	-1.500 V	-100.0MV
57	5	-720.0MV	-1.500 V	-100.0MV
57	9	-720.0MV	-1.500 V	-100.0MV
57	11	-720.0MV	-1.500 V	-100.0MV
57	13	-720.0MV	-1.500 V	-100.0MV
57	14	-600.0MV	-1.500 V	-100.0MV
67	2	650.0MV	100.0MV	1.500 V
67	4	650.0MV	100.0MV	1.500 V
67	6	650.0MV	100.0MV	1.500 V
67	8	650.0MV	100.0MV	1.500 V
67	10	650.0MV	100.0MV	1.500 V
67	12	650.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.980 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.820 V	2.480 V	
248	4	2.820 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.790 V	2.480 V	
266	10	2.830 V	2.480 V	
272	12	2.830 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	72.00MV		260.0MV
352	4	76.00MV		260.0MV
358	6	62.00MV		260.0MV
364	8	108.0MV		260.0MV
370	10	68.00MV		260.0MV
376	12	64.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.270 V	3.980 V
248	4	4.270 V	3.980 V
254	6	4.290 V	3.980 V
260	8	4.240 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.290 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	88.00MV		260.0MV
352	4	84.00MV		260.0MV
358	6	68.00MV		260.0MV
364	8	120.0MV		260.0MV
370	10	80.00MV		260.0MV
376	12	74.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.790 V	5.480 V	
248	4	5.790 V	5.480 V	
254	6	5.810 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.790 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	92.00MV		260.0MV
352	4	86.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	120.0MV		260.0MV
370	10	86.00MV		260.0MV
376	12	78.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.400	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 1.000 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.940 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		800.4E-03	250.0E-03	1.650
3	586		880.4E-03	250.0E-03	1.650
5	586		960.4E-03	250.0E-03	1.650
9	586		1.040	250.0E-03	1.650
11	586		1.120	250.0E-03	1.650
13	586		1.200	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -22.00NA   -100.0NA    100.0NA
   638    5  20.00NA    -100.0NA    100.0NA
   643    9  -5.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -5.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  27.00NA    1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  29.00NA    1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 11

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-720.0MV	-1.500 V	-100.0MV
57	3	-720.0MV	-1.500 V	-100.0MV
57	5	-720.0MV	-1.500 V	-100.0MV
57	9	-720.0MV	-1.500 V	-100.0MV
57	11	-720.0MV	-1.500 V	-100.0MV
57	13	-720.0MV	-1.500 V	-100.0MV
57	14	-600.0MV	-1.500 V	-100.0MV
67	2	640.0MV	100.0MV	1.500 V
67	4	640.0MV	100.0MV	1.500 V
67	6	650.0MV	100.0MV	1.500 V
67	8	650.0MV	100.0MV	1.500 V
67	10	650.0MV	100.0MV	1.500 V
67	12	650.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.980 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.980 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.820 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.840 V	2.480 V	
260	8	2.820 V	2.480 V	
266	10	2.830 V	2.480 V	
272	12	2.840 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	76.00MV		260.0MV
352	4	198.00MV		260.0MV
358	6	60.00MV		260.0MV
364	8	68.00MV		260.0MV
370	10	66.00MV		260.0MV
376	12	62.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.270 V	3.980 V
248	4	4.270 V	3.980 V
254	6	4.290 V	3.980 V
260	8	4.280 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.290 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	92.00MV		260.0MV
352	4	136.0MV		260.0MV
358	6	66.00MV		260.0MV
364	8	82.00MV		260.0MV
370	10	78.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.790 V	5.480 V	
248	4	5.790 V	5.480 V	
254	6	5.820 V	5.480 V	
260	8	5.790 V	5.480 V	
266	10	5.800 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	96.00MV		260.0MV
352	4	140.0MV		260.0MV
358	6	66.00MV		260.0MV
364	8	90.00MV		260.0MV
370	10	82.00MV		260.0MV
376	12	74.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		760.4E-03	250.0E-03	1.650
3	586		840.4E-03	250.0E-03	1.650
5	586		920.4E-03	250.0E-03	1.650
9	586		1.000	250.0E-03	1.650
11	586		1.080	250.0E-03	1.650
13	586		1.160	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.941	1.200	2.600

```

INPUT PIN IS      11
INST # PIN MEASURED LT GT
567 1.901 1.200 2.600
INPUT PIN IS      13
INST # PIN MEASURED LT GT
567 1.861 1.200 2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

```

INPUT PIN IS      1
INST # PIN MEASURED LT GT
586 1.099 500.0E-03 3
INPUT PIN IS      3
INST # PIN MEASURED LT GT
586 1.179 500.0E-03 3
INPUT PIN IS      5
INST # PIN MEASURED LT GT
586 1.259 500.0E-03 3
INPUT PIN IS      9
INST # PIN MEASURED LT GT
586 1.339 500.0E-03 3
INPUT PIN IS     11
INST # PIN MEASURED LT GT
586 1.419 500.0E-03 3
INPUT PIN IS     13
INST # PIN MEASURED LT GT
586 1.499 500.0E-03 3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
619 1 -3.000NA -100.0NA 100.0NA
622 1 2.000NA -100.0NA 100.0NA
627 3 -4.000NA -100.0NA 100.0NA
630 3 2.000NA -100.0NA 100.0NA
635 5 -12.00NA -100.0NA 100.0NA
638 5 10.00NA -100.0NA 100.0NA
643 9 -4.000NA -100.0NA 100.0NA
646 9 2.000NA -100.0NA 100.0NA
651 11 -4.000NA -100.0NA 100.0NA
654 11 2.000NA -100.0NA 100.0NA
659 13 -5.000NA -100.0NA 100.0NA
662 13 2.000NA -100.0NA 100.0NA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
691 14 13.00NA 1.000UA
INST # PIN MEASURED LT GT
698 14 15.00NA 1.000UA

```

```

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 12

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-710.0MV	-1.500 V	-100.0MV
57	3	-710.0MV	-1.500 V	-100.0MV
57	5	-710.0MV	-1.500 V	-100.0MV
57	9	-710.0MV	-1.500 V	-100.0MV
57	11	-710.0MV	-1.500 V	-100.0MV
57	13	-710.0MV	-1.500 V	-100.0MV
57	14	-590.0MV	-1.500 V	-100.0MV
67	2	630.0MV	100.0MV	1.500 V
67	4	640.0MV	100.0MV	1.500 V
67	6	630.0MV	100.0MV	1.500 V
67	8	630.0MV	100.0MV	1.500 V
67	10	630.0MV	100.0MV	1.500 V
67	12	630.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	78.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.820 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.820 V	2.480 V	
266	10	2.820 V	2.480 V	
272	12	2.830 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	74.00MV		260.0MV
352	4	98.00MV		260.0MV
358	6	62.00MV		260.0MV
364	8	68.00MV		260.0MV
370	10	68.00MV		260.0MV
376	12	66.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.460 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.270 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.290 V	3.980 V
260	8	4.280 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.280 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	92.00MV		260.0MV
352	4	104.0MV		260.0MV
358	6	72.00MV		260.0MV
364	8	80.00MV		260.0MV
370	10	84.00MV		260.0MV
376	12	76.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.780 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.800 V	5.480 V	
260	8	5.790 V	5.480 V	
266	10	5.790 V	5.480 V	
272	12	5.800 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	100.0MV		260.0MV
352	4	108.0MV		260.0MV
358	6	72.00MV		260.0MV
364	8	86.00MV		260.0MV
370	10	88.00MV		260.0MV
376	12	82.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.061	1.200	2.600
					3
	567		2.021	1.200	2.600
					5
	567		1.981	1.200	2.600
					9
	567		1.941	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.861    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.099    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.179    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.259    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.339    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.419    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.499    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -15.00NA   -100.0NA    100.0NA
   638    5  13.00NA    -100.0NA    100.0NA
   643    9  -7.000NA    -100.0NA    100.0NA
   646    9  5.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  83.00NA    1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  85.00NA    1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```




MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at 25°C



STAT1 05/29/11 07:07
 TEST PROGRAM 4HC14 S/N 1
 DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-670.0MV	-1.500 V	-100.0MV
57	3	-670.0MV	-1.500 V	-100.0MV
57	5	-670.0MV	-1.500 V	-100.0MV
57	9	-670.0MV	-1.500 V	-100.0MV
57	11	-670.0MV	-1.500 V	-100.0MV
57	13	-670.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	590.0MV	100.0MV	1.500 V
67	4	590.0MV	100.0MV	1.500 V
67	6	590.0MV	100.0MV	1.500 V
67	8	590.0MV	100.0MV	1.500 V
67	10	590.0MV	100.0MV	1.500 V
67	12	590.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 300.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

 FUNCTIONAL TEST
 VCC= 3
 VIH= 2.150 VIL= 500.0E-03

 VOH1 TEST
 VCC= 3
 VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
189	2	2.980 V	2.900 V	
195	4	2.980 V	2.900 V	
201	6	2.980 V	2.900 V	

207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	90.00MV		260.0MV
352	4	76.00MV		260.0MV
358	6	68.00MV		260.0MV
364	8	78.00MV		260.0MV
370	10	80.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
242	2	4.240 V	3.980 V	
248	4	4.260 V	3.980 V	
254	6	4.270 V	3.980 V	

260	8	4.250 V	3.980 V
266	10	4.260 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	114.0MV		260.0MV
352	4	92.00MV		260.0MV
358	6	82.00MV		260.0MV
364	8	98.00MV		260.0MV
370	10	98.00MV		260.0MV
376	12	86.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.740 V	5.480 V	
248	4	5.770 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.770 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV

311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	128.0MV		260.0MV
352	4	98.000MV		260.0MV
358	6	86.000MV		260.0MV
364	8	106.0MV		260.0MV
370	10	106.0MV		260.0MV
376	12	92.000MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	1	1.500
3	519		1.200	1	1.500
5	519		1.240	1	1.500
9	519		1.280	1	1.500
11	519		1.320	1	1.500
13	519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		600.0E-03	300.0E-03	900.0E-03
3	567		560.0E-03	300.0E-03	900.0E-03
5	567		520.0E-03	300.0E-03	900.0E-03
9	567		480.0E-03	300.0E-03	900.0E-03
11	567		440.0E-03	300.0E-03	900.0E-03
13	567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)
VCC= 2
MIN= 200.0E-03
MAX= 1.200

```

-----
INPUT PIN IS      1
INST # PIN MEASURED      LT      GT
  586      560.0E-03    200.0E-03    1.200
INPUT PIN IS      3
INST # PIN MEASURED      LT      GT
  586      640.0E-03    200.0E-03    1.200
INPUT PIN IS      5
INST # PIN MEASURED      LT      GT
  586      720.0E-03    200.0E-03    1.200
INPUT PIN IS      9
INST # PIN MEASURED      LT      GT
  586      800.0E-03    200.0E-03    1.200
INPUT PIN IS     11
INST # PIN MEASURED      LT      GT
  586      880.0E-03    200.0E-03    1.200
INPUT PIN IS     13
INST # PIN MEASURED      LT      GT
  586      960.0E-03    200.0E-03    1.200

```

```

-----
VTP TEST (VT+)
VCC=      3
MIN=  1.500
MAX=  2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST # PIN MEASURED      LT      GT
  519      1.700      1.500      2.150
INPUT PIN IS      3
INST # PIN MEASURED      LT      GT
  519      1.740      1.500      2.150
INPUT PIN IS      5
INST # PIN MEASURED      LT      GT
  519      1.780      1.500      2.150
INPUT PIN IS      9
INST # PIN MEASURED      LT      GT
  519      1.820      1.500      2.150
INPUT PIN IS     11
INST # PIN MEASURED      LT      GT
  519      1.860      1.500      2.150
INPUT PIN IS     13
INST # PIN MEASURED      LT      GT
  519      1.900      1.500      2.150

```

```

-----
VTN TEST (VT-)
VCC=      3
MIN=  500.0E-03
MAX=  1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST # PIN MEASURED      LT      GT
  567      979.8E-03    500.0E-03    1.450
INPUT PIN IS      3
INST # PIN MEASURED      LT      GT
  567      939.8E-03    500.0E-03    1.450
INPUT PIN IS      5
INST # PIN MEASURED      LT      GT
  567      899.8E-03    500.0E-03    1.450
INPUT PIN IS      9
INST # PIN MEASURED      LT      GT
  567      859.8E-03    500.0E-03    1.450
INPUT PIN IS     11
INST # PIN MEASURED      LT      GT
  567      819.8E-03    500.0E-03    1.450
INPUT PIN IS     13
INST # PIN MEASURED      LT      GT
  567      779.8E-03    500.0E-03    1.450

```

```

-----
VH TEST (HYSTERESIS)

```

VCC= 3
MIN= 250.0E-03
MAX= 1.650

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 720.4E-03 250.0E-03 1.650
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 800.4E-03 250.0E-03 1.650
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 880.4E-03 250.0E-03 1.650
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 960.4E-03 250.0E-03 1.650
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 1.040 250.0E-03 1.650
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 1.120 250.0E-03 1.650

VTP TEST (VT+)
VCC= 4.500
MIN= 2.300
MAX= 3.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 2.400 2.300 3.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 2.440 2.300 3.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 2.480 2.300 3.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 2.520 2.300 3.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 2.560 2.300 3.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 2.600 2.300 3.150

VTN TEST (VT-)
VCC= 4.500
MIN= 900.0E-03
MAX= 2
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.520 900.0E-03 2
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 1.480 900.0E-03 2
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 1.440 900.0E-03 2
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 1.400 900.0E-03 2
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 1.360 900.0E-03 2
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 1.320 900.0E-03 2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		879.7E-03	400.0E-03	2.250
3	586		959.7E-03	400.0E-03	2.250
5	586		1.040	400.0E-03	2.250
9	586		1.120	400.0E-03	2.250
11	586		1.200	400.0E-03	2.250
13	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		3.120	3	4.200
3	519		3.160	3	4.200
5	519		3.200	3	4.200
9	519		3.240	3	4.200
11	519		3.280	3	4.200
13	519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		2.061	1.200	2.600
3	567		2.021	1.200	2.600
5	567		1.981	1.200	2.600
9	567		1.941	1.200	2.600
11	567		1.901	1.200	2.600


```

INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.861      1.200      2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA  -100.0NA  100.0NA
   622      1   2.000NA  -100.0NA  100.0NA
   627      3  -4.000NA  -100.0NA  100.0NA
   630      3   2.000NA  -100.0NA  100.0NA
   635      5  -5.000NA  -100.0NA  100.0NA
   638      5   2.000NA  -100.0NA  100.0NA
   643      9  -5.000NA  -100.0NA  100.0NA
   646      9   2.000NA  -100.0NA  100.0NA
   651     11  -5.000NA  -100.0NA  100.0NA
   654     11   2.000NA  -100.0NA  100.0NA
   659     13  -4.000NA  -100.0NA  100.0NA
   662     13   2.000NA  -100.0NA  100.0NA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14   5.000NA      LT      1.000UA
INST #  PIN  MEASURED      LT      GT
   698     14   5.000NA      LT      1.000UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 2

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.780 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.820 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		260.0MV
352	4	78.00MV		260.0MV
358	6	68.00MV		260.0MV
364	8	76.00MV		260.0MV
370	10	78.00MV		260.0MV
376	12	70.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.230 V	3.980 V
248	4	4.250 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.260 V	3.980 V
266	10	4.260 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	124.0MV		260.0MV
352	4	98.00MV		260.0MV
358	6	80.00MV		260.0MV
364	8	96.00MV		260.0MV
370	10	96.00MV		260.0MV
376	12	86.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.740 V	5.480 V	
248	4	5.770 V	5.480 V	
254	6	5.790 V	5.480 V	
260	8	5.770 V	5.480 V	
266	10	5.770 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	134.0MV		260.0MV
352	4	102.0MV		260.0MV
358	6	84.00MV		260.0MV
364	8	104.0MV		260.0MV
370	10	106.0MV		260.0MV
376	12	92.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.120	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.941	1.200	2.600


```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.861    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -5.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -5.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -5.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  5.000NA      1.000UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 3

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.980 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.760 V	2.480 V	
248	4	2.790 V	2.480 V	
254	6	2.810 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	120.0MV		260.0MV
352	4	90.00MV		260.0MV
358	6	72.00MV		260.0MV
364	8	84.00MV		260.0MV
370	10	82.00MV		260.0MV
376	12	78.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.210 V	3.980 V
248	4	4.240 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.240 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.260 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	138.0MV		260.0MV
352	4	110.0MV		260.0MV
358	6	86.00MV		260.0MV
364	8	102.0MV		260.0MV
370	10	102.0MV		260.0MV
376	12	92.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.730 V	5.480 V	
248	4	5.760 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.750 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	140.0MV		260.0MV
352	4	110.0MV		260.0MV
358	6	90.00MV		260.0MV
364	8	112.0MV		260.0MV
370	10	112.0MV		260.0MV
376	12	96.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600


```

INPUT PIN IS      11
INST # PIN MEASURED LT GT
567 1.941 1.200 2.600
INPUT PIN IS      13
INST # PIN MEASURED LT GT
567 1.901 1.200 2.600

```

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-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

```

INPUT PIN IS      1
INST # PIN MEASURED LT GT
586 1.059 500.0E-03 3
INPUT PIN IS      3
INST # PIN MEASURED LT GT
586 1.139 500.0E-03 3
INPUT PIN IS      5
INST # PIN MEASURED LT GT
586 1.219 500.0E-03 3
INPUT PIN IS      9
INST # PIN MEASURED LT GT
586 1.299 500.0E-03 3
INPUT PIN IS     11
INST # PIN MEASURED LT GT
586 1.379 500.0E-03 3
INPUT PIN IS     13
INST # PIN MEASURED LT GT
586 1.459 500.0E-03 3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
619 1 -3.000NA -100.0NA 100.0NA
622 1 2.000NA -100.0NA 100.0NA
627 3 -4.000NA -100.0NA 100.0NA
630 3 2.000NA -100.0NA 100.0NA
635 5 -5.000NA -100.0NA 100.0NA
638 5 2.000NA -100.0NA 100.0NA
643 9 -5.000NA -100.0NA 100.0NA
646 9 2.000NA -100.0NA 100.0NA
651 11 -5.000NA -100.0NA 100.0NA
654 11 2.000NA -100.0NA 100.0NA
659 13 -5.000NA -100.0NA 100.0NA
662 13 2.000NA -100.0NA 100.0NA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
691 14 5.000NA 1.000UA
INST # PIN MEASURED LT GT
698 14 5.000NA 1.000UA

```

```

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 4

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.750 V	2.480 V	
248	4	2.800 V	2.480 V	
254	6	2.810 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	132.0MV		260.0MV
352	4	82.00MV		260.0MV
358	6	76.00MV		260.0MV
364	8	84.00MV		260.0MV
370	10	84.00MV		260.0MV
376	12	78.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.210 V	3.980 V
248	4	4.250 V	3.980 V
254	6	4.260 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.240 V	3.980 V
272	12	4.260 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	140.0MV		260.0MV
352	4	100.0MV		260.0MV
358	6	88.00MV		260.0MV
364	8	102.0MV		260.0MV
370	10	104.0MV		260.0MV
376	12	92.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.720 V	5.480 V	
248	4	5.760 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.750 V	5.480 V	
266	10	5.750 V	5.480 V	
272	12	5.770 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	148.0MV		260.0MV
352	4	106.0MV		260.0MV
358	6	92.00MV		260.0MV
364	8	110.0MV		260.0MV
370	10	112.0MV		260.0MV
376	12	98.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600


```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
                VH TEST (HYSTERESIS)
                VCC=      6
                MIN=  500.0E-03
                MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
                IIN TEST
                VCC=      6
                IIL/IIH LIMIT +- 0.1UA @25C/-55C
                IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -5.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -5.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
                ICC TEST
                VCC=      6
                ICC LIMIT MAX. 1.0UA @25C/-55C
                ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  4.000NA      LT      1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  5.000NA      LT      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 5

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-670.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.780 V	2.480 V	
248	4	2.800 V	2.480 V	
254	6	2.810 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		260.0MV
352	4	82.00MV		260.0MV
358	6	74.00MV		260.0MV
364	8	82.00MV		260.0MV
370	10	82.00MV		260.0MV
376	12	76.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.230 V	3.980 V
248	4	4.250 V	3.980 V
254	6	4.260 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.260 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	130.0MV		260.0MV
352	4	100.0MV		260.0MV
358	6	84.00MV		260.0MV
364	8	100.0MV		260.0MV
370	10	102.0MV		260.0MV
376	12	90.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.480 V	
248	4	5.760 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	158.0MV		260.0MV
352	4	106.0MV		260.0MV
358	6	90.00MV		260.0MV
364	8	108.0MV		260.0MV
370	10	110.0MV		260.0MV
376	12	98.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600


```

INPUT PIN IS      11
INST # PIN MEASURED LT GT
567 1.941 1.200 2.600
INPUT PIN IS      13
INST # PIN MEASURED LT GT
567 1.901 1.200 2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

```

INPUT PIN IS      1
INST # PIN MEASURED LT GT
586 1.059 500.0E-03 3
INPUT PIN IS      3
INST # PIN MEASURED LT GT
586 1.139 500.0E-03 3
INPUT PIN IS      5
INST # PIN MEASURED LT GT
586 1.219 500.0E-03 3
INPUT PIN IS      9
INST # PIN MEASURED LT GT
586 1.299 500.0E-03 3
INPUT PIN IS     11
INST # PIN MEASURED LT GT
586 1.379 500.0E-03 3
INPUT PIN IS     13
INST # PIN MEASURED LT GT
586 1.459 500.0E-03 3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
619 1 -3.000NA -100.0NA 100.0NA
622 1 2.000NA -100.0NA 100.0NA
627 3 -4.000NA -100.0NA 100.0NA
630 3 2.000NA -100.0NA 100.0NA
635 5 -5.000NA -100.0NA 100.0NA
638 5 2.000NA -100.0NA 100.0NA
643 9 -5.000NA -100.0NA 100.0NA
646 9 2.000NA -100.0NA 100.0NA
651 11 -5.000NA -100.0NA 100.0NA
654 11 2.000NA -100.0NA 100.0NA
659 13 -5.000NA -100.0NA 100.0NA
662 13 2.000NA -100.0NA 100.0NA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
691 14 5.000NA 1.000UA
INST # PIN MEASURED LT GT
698 14 5.000NA 1.000UA

```

```

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 6

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	590.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.770 V	2.480 V	
248	4	2.800 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.820 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	118.0MV		260.0MV
352	4	84.00MV		260.0MV
358	6	68.00MV		260.0MV
364	8	78.00MV		260.0MV
370	10	80.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.460 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.230 V	3.980 V
248	4	4.250 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.260 V	3.980 V
266	10	4.260 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	124.0MV		260.0MV
352	4	102.0MV		260.0MV
358	6	82.00MV		260.0MV
364	8	98.00MV		260.0MV
370	10	98.00MV		260.0MV
376	12	88.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.740 V	5.480 V	
248	4	5.770 V	5.480 V	
254	6	5.790 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.790 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	130.0MV		260.0MV
352	4	104.0MV		260.0MV
358	6	86.00MV		260.0MV
364	8	106.0MV		260.0MV
370	10	106.0MV		260.0MV
376	12	92.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600


```

INPUT PIN IS      11
INST # PIN MEASURED LT GT
567 1.941 1.200 2.600
INPUT PIN IS      13
INST # PIN MEASURED LT GT
567 1.901 1.200 2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

```

INPUT PIN IS      1
INST # PIN MEASURED LT GT
586 1.059 500.0E-03 3
INPUT PIN IS      3
INST # PIN MEASURED LT GT
586 1.139 500.0E-03 3
INPUT PIN IS      5
INST # PIN MEASURED LT GT
586 1.219 500.0E-03 3
INPUT PIN IS      9
INST # PIN MEASURED LT GT
586 1.299 500.0E-03 3
INPUT PIN IS     11
INST # PIN MEASURED LT GT
586 1.379 500.0E-03 3
INPUT PIN IS     13
INST # PIN MEASURED LT GT
586 1.459 500.0E-03 3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
619 1 -3.000NA -100.0NA 100.0NA
622 1 3.000NA -100.0NA 100.0NA
627 3 -4.000NA -100.0NA 100.0NA
630 3 2.000NA -100.0NA 100.0NA
635 5 -5.000NA -100.0NA 100.0NA
638 5 2.000NA -100.0NA 100.0NA
643 9 -5.000NA -100.0NA 100.0NA
646 9 2.000NA -100.0NA 100.0NA
651 11 -4.000NA -100.0NA 100.0NA
654 11 2.000NA -100.0NA 100.0NA
659 13 -5.000NA -100.0NA 100.0NA
662 13 2.000NA -100.0NA 100.0NA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
691 14 5.000NA 1.000UA
INST # PIN MEASURED LT GT
698 14 5.000NA 1.000UA

```

```

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 7

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	590.0MV	100.0MV	1.500 V
67	6	590.0MV	100.0MV	1.500 V
67	8	590.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.780 V	2.480 V	
248	4	2.800 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.820 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	112.0MV		260.0MV
352	4	84.00MV		260.0MV
358	6	68.00MV		260.0MV
364	8	78.00MV		260.0MV
370	10	80.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.220 V	3.980 V
248	4	4.250 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.260 V	3.980 V
266	10	4.260 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	130.0MV		260.0MV
352	4	102.0MV		260.0MV
358	6	82.00MV		260.0MV
364	8	96.00MV		260.0MV
370	10	98.00MV		260.0MV
376	12	88.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.740 V	5.480 V	
248	4	5.760 V	5.480 V	
254	6	5.790 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	136.0MV		260.0MV
352	4	112.0MV		260.0MV
358	6	86.00MV		260.0MV
364	8	106.0MV		260.0MV
370	10	106.0MV		260.0MV
376	12	92.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600


```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -5.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -5.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      LT      1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  5.000NA      LT      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 8

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	590.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	590.0MV	100.0MV	1.500 V
67	12	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.760 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.820 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	124.0MV		260.0MV
352	4	78.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	78.00MV		260.0MV
370	10	78.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.460 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.220 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.280 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.260 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	136.0MV		260.0MV
352	4	96.00MV		260.0MV
358	6	82.00MV		260.0MV
364	8	98.00MV		260.0MV
370	10	98.00MV		260.0MV
376	12	86.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.720 V	5.480 V	
248	4	5.770 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.770 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	148.0MV		260.0MV
352	4	104.0MV		260.0MV
358	6	84.00MV		260.0MV
364	8	106.0MV		260.0MV
370	10	106.0MV		260.0MV
376	12	92.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

VH TEST (HYSTERESIS)
VCC= 4.500
MIN= 400.0E-03
MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

VTP TEST (VT+)
VCC= 6
MIN= 3
MAX= 4.200
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.120	3	4.200
					3
	519		3.160	3	4.200
					5
	519		3.200	3	4.200
					9
	519		3.240	3	4.200
					11
	519		3.280	3	4.200
					13
	519		3.320	3	4.200

VTN TEST (VT-)
VCC= 6
MIN= 1.200
MAX= 2.600
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.061	1.200	2.600
					3
	567		2.021	1.200	2.600
					5
	567		1.981	1.200	2.600
					9
	567		1.941	1.200	2.600


```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.861    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -5.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -5.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -5.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  5.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 9

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-670.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	590.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.740 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	152.0MV		260.0MV
352	4	78.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	76.00MV		260.0MV
370	10	78.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.200 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.260 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	154.0MV		260.0MV
352	4	96.00MV		260.0MV
358	6	82.00MV		260.0MV
364	8	96.00MV		260.0MV
370	10	98.00MV		260.0MV
376	12	86.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.720 V	5.480 V	
248	4	5.770 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	150.0MV		260.0MV
352	4	104.0MV		260.0MV
358	6	86.00MV		260.0MV
364	8	102.0MV		260.0MV
370	10	108.0MV		260.0MV
376	12	92.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.120	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.941	1.200	2.600


```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.861    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -5.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -5.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  5.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 10

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.750 V	2.480 V	
248	4	2.800 V	2.480 V	
254	6	2.810 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	128.0MV		260.0MV
352	4	84.00MV		260.0MV
358	6	74.00MV		260.0MV
364	8	82.00MV		260.0MV
370	10	84.00MV		260.0MV
376	12	78.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.460 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.210 V	3.980 V
248	4	4.250 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.240 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.260 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	146.0MV		260.0MV
352	4	100.0MV		260.0MV
358	6	86.00MV		260.0MV
364	8	102.0MV		260.0MV
370	10	102.0MV		260.0MV
376	12	90.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.480 V	
248	4	5.760 V	5.480 V	
254	6	5.770 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	156.0MV		260.0MV
352	4	108.0MV		260.0MV
358	6	92.00MV		260.0MV
364	8	108.0MV		260.0MV
370	10	112.0MV		260.0MV
376	12	96.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600


```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
IIN TEST
VCC=      6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -4.000NA  -100.0NA  100.0NA
   622      1  2.000NA  -100.0NA  100.0NA
   627      3  -4.000NA  -100.0NA  100.0NA
   630      3  2.000NA  -100.0NA  100.0NA
   635      5  -5.000NA  -100.0NA  100.0NA
   638      5  2.000NA  -100.0NA  100.0NA
   643      9  -5.000NA  -100.0NA  100.0NA
   646      9  2.000NA  -100.0NA  100.0NA
   651     11  -5.000NA  -100.0NA  100.0NA
   654     11  2.000NA  -100.0NA  100.0NA
   659     13  -5.000NA  -100.0NA  100.0NA
   662     13  2.000NA  -100.0NA  100.0NA

```

```

-----
ICC TEST
VCC=      6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14  5.000NA      LT      1.000UA
INST #  PIN  MEASURED      LT      GT
   698     14  5.000NA      LT      1.000UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 11

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-670.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-670.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	590.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	590.0MV	100.0MV	1.500 V
67	10	590.0MV	100.0MV	1.500 V
67	12	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.770 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	116.0MV		260.0MV
352	4	78.00MV		260.0MV
358	6	72.00MV		260.0MV
364	8	78.00MV		260.0MV
370	10	80.00MV		260.0MV
376	12	74.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.200 V	3.980 V
248	4	4.250 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.260 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	154.0MV		260.0MV
352	4	98.00MV		260.0MV
358	6	82.00MV		260.0MV
364	8	98.00MV		260.0MV
370	10	100.0MV		260.0MV
376	12	88.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.480 V	
248	4	5.770 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	166.0MV		260.0MV
352	4	104.0MV		260.0MV
358	6	86.000MV		260.0MV
364	8	104.0MV		260.0MV
370	10	110.0MV		260.0MV
376	12	94.000MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

VH TEST (HYSTERESIS)
VCC= 4.500
MIN= 400.0E-03
MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

VTP TEST (VT+)
VCC= 6
MIN= 3
MAX= 4.200
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

VTN TEST (VT-)
VCC= 6
MIN= 1.200
MAX= 2.600
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600


```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -5.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -5.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -5.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  5.000NA      1.000UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 12

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-670.0MV	-1.500 V	-100.0MV
57	3	-670.0MV	-1.500 V	-100.0MV
57	5	-670.0MV	-1.500 V	-100.0MV
57	9	-670.0MV	-1.500 V	-100.0MV
57	11	-670.0MV	-1.500 V	-100.0MV
57	13	-670.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	590.0MV	100.0MV	1.500 V
67	6	590.0MV	100.0MV	1.500 V
67	8	590.0MV	100.0MV	1.500 V
67	10	590.0MV	100.0MV	1.500 V
67	12	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.760 V	2.480 V	
248	4	2.800 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.790 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.820 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	118.0MV		260.0MV
352	4	78.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	88.00MV		260.0MV
370	10	80.00MV		260.0MV
376	12	74.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.220 V	3.980 V
248	4	4.250 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.240 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	132.0MV		260.0MV
352	4	98.00MV		260.0MV
358	6	82.00MV		260.0MV
364	8	112.0MV		260.0MV
370	10	100.0MV		260.0MV
376	12	88.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.740 V	5.480 V	
248	4	5.760 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.740 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	132.0MV		260.0MV
352	4	104.0MV		260.0MV
358	6	86.00MV		260.0MV
364	8	124.0MV		260.0MV
370	10	108.0MV		260.0MV
376	12	94.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600


```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -5.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -5.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -5.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -5.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      LT      1.000UA
INST #  PIN  MEASURED      LT      GT
   698   14  5.000NA      LT      1.000UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```



MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at +125°C



STAT1 05/29/11 07:07
 TEST PROGRAM 4HC14 S/N 1
 DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-630.0MV	-1.500 V	-100.0MV
57	3	-630.0MV	-1.500 V	-100.0MV
57	5	-630.0MV	-1.500 V	-100.0MV
57	9	-630.0MV	-1.500 V	-100.0MV
57	11	-630.0MV	-1.500 V	-100.0MV
57	13	-630.0MV	-1.500 V	-100.0MV
57	14	-490.0MV	-1.500 V	-100.0MV
67	2	540.0MV	100.0MV	1.500 V
67	4	540.0MV	100.0MV	1.500 V
67	6	540.0MV	100.0MV	1.500 V
67	8	540.0MV	100.0MV	1.500 V
67	10	540.0MV	100.0MV	1.500 V
67	12	540.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 300.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.980 V	1.900 V	
219	12	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

 FUNCTIONAL TEST
 VCC= 3
 VIH= 2.150 VIL= 500.0E-03

 VOH1 TEST
 VCC= 3
 VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
189	2	2.980 V	2.900 V	
195	4	2.970 V	2.900 V	
201	6	2.980 V	2.900 V	

207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.780 V	2.200 V	
248	4	2.800 V	2.200 V	
254	6	2.800 V	2.200 V	
260	8	2.790 V	2.200 V	
266	10	2.770 V	2.200 V	
272	12	2.800 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	100.0MV		400.0MV
352	4	82.00MV		400.0MV
358	6	82.00MV		400.0MV
364	8	84.00MV		400.0MV
370	10	106.0MV		400.0MV
376	12	84.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
242	2	4.220 V	3.700 V	
248	4	4.240 V	3.700 V	
254	6	4.240 V	3.700 V	

260	8	4.240 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.240 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	130.0MV		400.0MV
352	4	100.0MV		400.0MV
358	6	100.0MV		400.0MV
364	8	104.0MV		400.0MV
370	10	142.0MV		400.0MV
376	12	102.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.720 V	5.200 V	
248	4	5.750 V	5.200 V	
254	6	5.750 V	5.200 V	
260	8	5.750 V	5.200 V	
266	10	5.700 V	5.200 V	
272	12	5.750 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-6.000MV		100.0MV

311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	140.0MV		400.0MV
352	4	108.0MV		400.0MV
358	6	106.0MV		400.0MV
364	8	112.0MV		400.0MV
370	10	158.0MV		400.0MV
376	12	110.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	950.0E-03	1.500
3	519		1.200	950.0E-03	1.500
5	519		1.240	950.0E-03	1.500
9	519		1.280	950.0E-03	1.500
11	519		1.320	950.0E-03	1.500
13	519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		600.0E-03	300.0E-03	950.0E-03
3	567		560.0E-03	300.0E-03	950.0E-03
5	567		520.0E-03	300.0E-03	950.0E-03
9	567		480.0E-03	300.0E-03	950.0E-03
11	567		440.0E-03	300.0E-03	950.0E-03
13	567		400.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)
VCC= 2
MIN= 200.0E-03
MAX= 1.200

```

-----
INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  586      560.0E-03    200.0E-03    1.200
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  586      640.0E-03    200.0E-03    1.200
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  586      720.0E-03    200.0E-03    1.200
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  586      800.0E-03    200.0E-03    1.200
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  586      880.0E-03    200.0E-03    1.200
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  586      960.0E-03    200.0E-03    1.200

```

```

-----
VTP TEST (VT+)
VCC=      3
MIN=  1.450
MAX=  2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  519      1.660          1.450    2.150
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  519      1.700          1.450    2.150
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  519      1.740          1.450    2.150
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  519      1.780          1.450    2.150
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  519      1.820          1.450    2.150
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  519      1.860          1.450    2.150

```

```

-----
VTN TEST (VT-)
VCC=      3
MIN=  500.0E-03
MAX=  1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  567      979.8E-03    500.0E-03    1.450
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  567      939.8E-03    500.0E-03    1.450
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  567      899.8E-03    500.0E-03    1.450
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  567      859.8E-03    500.0E-03    1.450
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  567      819.8E-03    500.0E-03    1.450
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  567      779.8E-03    500.0E-03    1.450

```

```

-----
VH TEST (HYSTERESIS)

```

VCC= 3
MIN= 250.0E-03
MAX= 1.650

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 680.3E-03 250.0E-03 1.650
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 760.4E-03 250.0E-03 1.650
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 840.4E-03 250.0E-03 1.650
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 920.4E-03 250.0E-03 1.650
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 1.000 250.0E-03 1.650
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 1.080 250.0E-03 1.650

VTP TEST (VT+)
VCC= 4.500
MIN= 2.250
MAX= 3.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 2.400 2.250 3.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 2.440 2.250 3.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 2.480 2.250 3.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 2.520 2.250 3.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 2.560 2.250 3.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 2.600 2.250 3.150

VTN TEST (VT-)
VCC= 4.500
MIN= 900.0E-03
MAX= 2.050
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.520 900.0E-03 2.050
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 1.480 900.0E-03 2.050
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 1.440 900.0E-03 2.050
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 1.400 900.0E-03 2.050
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 1.360 900.0E-03 2.050
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 1.320 900.0E-03 2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		879.7E-03	400.0E-03	2.250
3	586		959.7E-03	400.0E-03	2.250
5	586		1.040	400.0E-03	2.250
9	586		1.120	400.0E-03	2.250
11	586		1.200	400.0E-03	2.250
13	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		3.160	2.950	4.200
3	519		3.200	2.950	4.200
5	519		3.240	2.950	4.200
9	519		3.280	2.950	4.200
11	519		3.320	2.950	4.200
13	519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		2.101	1.200	2.650
3	567		2.061	1.200	2.650
5	567		2.021	1.200	2.650
9	567		1.981	1.200	2.650
11	567		1.941	1.200	2.650

```

INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.650

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA  -1.000UA  1.000UA
   622      1   2.000NA  -1.000UA  1.000UA
   627      3  -4.000NA  -1.000UA  1.000UA
   630      3   2.000NA  -1.000UA  1.000UA
   635      5  -4.000NA  -1.000UA  1.000UA
   638      5   2.000NA  -1.000UA  1.000UA
   643      9  -4.000NA  -1.000UA  1.000UA
   646      9   2.000NA  -1.000UA  1.000UA
   651     11  -4.000NA  -1.000UA  1.000UA
   654     11   2.000NA  -1.000UA  1.000UA
   659     13  -4.000NA  -1.000UA  1.000UA
   662     13   2.000NA  -1.000UA  1.000UA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14      0 A      40.00UA
INST #  PIN  MEASURED      LT      GT
   698     14      0 A      40.00UA

```

```

EIR 1.....10      FCT      DCT
0000000000      PASS      PASS      EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 2

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-650.0MV	-1.500 V	-100.0MV
57	3	-650.0MV	-1.500 V	-100.0MV
57	5	-650.0MV	-1.500 V	-100.0MV
57	9	-650.0MV	-1.500 V	-100.0MV
57	11	-650.0MV	-1.500 V	-100.0MV
57	13	-650.0MV	-1.500 V	-100.0MV
57	14	-520.0MV	-1.500 V	-100.0MV
67	2	560.0MV	100.0MV	1.500 V
67	4	560.0MV	100.0MV	1.500 V
67	6	560.0MV	100.0MV	1.500 V
67	8	560.0MV	100.0MV	1.500 V
67	10	560.0MV	100.0MV	1.500 V
67	12	560.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.790 V	2.200 V	
248	4	2.810 V	2.200 V	
254	6	2.810 V	2.200 V	
260	8	2.810 V	2.200 V	
266	10	2.800 V	2.200 V	
272	12	2.810 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	88.00MV		400.0MV
352	4	74.00MV		400.0MV
358	6	74.00MV		400.0MV
364	8	78.00MV		400.0MV
370	10	84.00MV		400.0MV
376	12	78.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.240 V	3.700 V
248	4	4.260 V	3.700 V
254	6	4.260 V	3.700 V
260	8	4.250 V	3.700 V
266	10	4.240 V	3.700 V
272	12	4.260 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	116.0MV		400.0MV
352	4	90.00MV		400.0MV
358	6	90.00MV		400.0MV
364	8	94.00MV		400.0MV
370	10	106.0MV		400.0MV
376	12	94.00MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.740 V	5.200 V	
248	4	5.760 V	5.200 V	
254	6	5.770 V	5.200 V	
260	8	5.760 V	5.200 V	
266	10	5.750 V	5.200 V	
272	12	5.770 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	128.0MV		400.0MV
352	4	96.00MV		400.0MV
358	6	98.00MV		400.0MV
364	8	102.0MV		400.0MV
370	10	118.0MV		400.0MV
376	12	102.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	950.0E-03	1.500
3	519		1.200	950.0E-03	1.500
5	519		1.240	950.0E-03	1.500
9	519		1.280	950.0E-03	1.500
11	519		1.320	950.0E-03	1.500
13	519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		600.0E-03	300.0E-03	950.0E-03
3	567		560.0E-03	300.0E-03	950.0E-03
5	567		520.0E-03	300.0E-03	950.0E-03
9	567		480.0E-03	300.0E-03	950.0E-03
11	567		440.0E-03	300.0E-03	950.0E-03
13	567		400.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		680.3E-03	250.0E-03	1.650
3	586		760.4E-03	250.0E-03	1.650
5	586		840.4E-03	250.0E-03	1.650
9	586		920.4E-03	250.0E-03	1.650
11	586		1.000	250.0E-03	1.650
13	586		1.080	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2.050
3	567		1.480	900.0E-03	2.050
5	567		1.440	900.0E-03	2.050
9	567		1.400	900.0E-03	2.050
11	567		1.360	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2.050

VH TEST (HYSTERESIS)
VCC= 4.500
MIN= 400.0E-03
MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

VTP TEST (VT+)
VCC= 6
MIN= 2.950
MAX= 4.200
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

VTN TEST (VT-)
VCC= 6
MIN= 1.200
MAX= 2.650
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -1.000UA    1.000UA
   622    1   2.000NA    -1.000UA    1.000UA
   627    3  -4.000NA    -1.000UA    1.000UA
   630    3   2.000NA    -1.000UA    1.000UA
   635    5  -4.000NA    -1.000UA    1.000UA
   638    5   2.000NA    -1.000UA    1.000UA
   643    9  -4.000NA    -1.000UA    1.000UA
   646    9   2.000NA    -1.000UA    1.000UA
   651   11  -4.000NA    -1.000UA    1.000UA
   654   11   2.000NA    -1.000UA    1.000UA
   659   13  -4.000NA    -1.000UA    1.000UA
   662   13   2.000NA    -1.000UA    1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14     0 A      40.00UA
INST #  PIN  MEASURED      LT      GT
   698   14     0 A      40.00UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 3

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-660.0MV	-1.500 V	-100.0MV
57	3	-660.0MV	-1.500 V	-100.0MV
57	5	-660.0MV	-1.500 V	-100.0MV
57	9	-660.0MV	-1.500 V	-100.0MV
57	11	-660.0MV	-1.500 V	-100.0MV
57	13	-660.0MV	-1.500 V	-100.0MV
57	14	-530.0MV	-1.500 V	-100.0MV
67	2	580.0MV	100.0MV	1.500 V
67	4	580.0MV	100.0MV	1.500 V
67	6	570.0MV	100.0MV	1.500 V
67	8	580.0MV	100.0MV	1.500 V
67	10	580.0MV	100.0MV	1.500 V
67	12	580.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.980 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.790 V	2.200 V	
248	4	2.800 V	2.200 V	
254	6	2.800 V	2.200 V	
260	8	2.800 V	2.200 V	
266	10	2.790 V	2.200 V	
272	12	2.800 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	90.00MV		400.0MV
352	4	80.00MV		400.0MV
358	6	78.00MV		400.0MV
364	8	82.00MV		400.0MV
370	10	96.00MV		400.0MV
376	12	82.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.230 V	3.700 V
248	4	4.250 V	3.700 V
254	6	4.250 V	3.700 V
260	8	4.250 V	3.700 V
266	10	4.230 V	3.700 V
272	12	4.250 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	112.0MV		400.0MV
352	4	92.00MV		400.0MV
358	6	94.00MV		400.0MV
364	8	98.00MV		400.0MV
370	10	118.0MV		400.0MV
376	12	98.00MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.740 V	5.200 V	
248	4	5.760 V	5.200 V	
254	6	5.760 V	5.200 V	
260	8	5.750 V	5.200 V	
266	10	5.740 V	5.200 V	
272	12	5.760 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	122.0MV		400.0MV
352	4	100.0MV		400.0MV
358	6	100.0MV		400.0MV
364	8	106.0MV		400.0MV
370	10	122.0MV		400.0MV
376	12	106.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2.050
3	567		1.480	900.0E-03	2.050
5	567		1.440	900.0E-03	2.050
9	567		1.400	900.0E-03	2.050
11	567		1.360	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.650

```

INPUT PIN IS      11
INST # PIN MEASURED LT GT
567 1.941 1.200 2.650
INPUT PIN IS      13
INST # PIN MEASURED LT GT
567 1.901 1.200 2.650

```

```

-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

```

INPUT PIN IS      1
INST # PIN MEASURED LT GT
586 1.059 500.0E-03 3
INPUT PIN IS      3
INST # PIN MEASURED LT GT
586 1.139 500.0E-03 3
INPUT PIN IS      5
INST # PIN MEASURED LT GT
586 1.219 500.0E-03 3
INPUT PIN IS      9
INST # PIN MEASURED LT GT
586 1.299 500.0E-03 3
INPUT PIN IS     11
INST # PIN MEASURED LT GT
586 1.379 500.0E-03 3
INPUT PIN IS     13
INST # PIN MEASURED LT GT
586 1.459 500.0E-03 3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
619 1 -3.000NA -1.000UA 1.000UA
622 1 2.000NA -1.000UA 1.000UA
627 3 -4.000NA -1.000UA 1.000UA
630 3 2.000NA -1.000UA 1.000UA
635 5 -4.000NA -1.000UA 1.000UA
638 5 2.000NA -1.000UA 1.000UA
643 9 -4.000NA -1.000UA 1.000UA
646 9 2.000NA -1.000UA 1.000UA
651 11 -4.000NA -1.000UA 1.000UA
654 11 2.000NA -1.000UA 1.000UA
659 13 -4.000NA -1.000UA 1.000UA
662 13 2.000NA -1.000UA 1.000UA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
691 14 0 A 40.00UA
INST # PIN MEASURED LT GT
698 14 0 A 40.00UA

```

```

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 4

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-620.0MV	-1.500 V	-100.0MV
57	3	-620.0MV	-1.500 V	-100.0MV
57	5	-620.0MV	-1.500 V	-100.0MV
57	9	-620.0MV	-1.500 V	-100.0MV
57	11	-620.0MV	-1.500 V	-100.0MV
57	13	-620.0MV	-1.500 V	-100.0MV
57	14	-480.0MV	-1.500 V	-100.0MV
67	2	530.0MV	100.0MV	1.500 V
67	4	530.0MV	100.0MV	1.500 V
67	6	530.0MV	100.0MV	1.500 V
67	8	530.0MV	100.0MV	1.500 V
67	10	530.0MV	100.0MV	1.500 V
67	12	530.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.770 V	2.200 V	
248	4	2.780 V	2.200 V	
254	6	2.780 V	2.200 V	
260	8	2.780 V	2.200 V	
266	10	2.770 V	2.200 V	
272	12	2.780 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		400.0MV
352	4	92.00MV		400.0MV
358	6	92.00MV		400.0MV
364	8	94.00MV		400.0MV
370	10	100.0MV		400.0MV
376	12	96.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.210 V	3.700 V
248	4	4.220 V	3.700 V
254	6	4.230 V	3.700 V
260	8	4.220 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.230 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	130.0MV		400.0MV
352	4	112.0MV		400.0MV
358	6	112.0MV		400.0MV
364	8	116.0MV		400.0MV
370	10	128.0MV		400.0MV
376	12	116.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.200 V	
248	4	5.730 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.730 V	5.200 V	
266	10	5.710 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	144.0MV		400.0MV
352	4	118.0MV		400.0MV
358	6	118.0MV		400.0MV
364	8	124.0MV		400.0MV
370	10	138.0MV		400.0MV
376	12	124.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	950.0E-03	1.500
3	519		1.200	950.0E-03	1.500
5	519		1.240	950.0E-03	1.500
9	519		1.280	950.0E-03	1.500
11	519		1.320	950.0E-03	1.500
13	519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		640.0E-03	300.0E-03	950.0E-03
3	567		600.0E-03	300.0E-03	950.0E-03
5	567		560.0E-03	300.0E-03	950.0E-03
9	567		520.0E-03	300.0E-03	950.0E-03
11	567		480.0E-03	300.0E-03	950.0E-03
13	567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.250	3.150
3	519		2.480	2.250	3.150
5	519		2.520	2.250	3.150
9	519		2.560	2.250	3.150
11	519		2.600	2.250	3.150
13	519		2.640	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.6E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.399	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.141	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST # PIN MEASURED LT GT
567 1.981 1.200 2.650
INPUT PIN IS      13
INST # PIN MEASURED LT GT
567 1.941 1.200 2.650

```

```

-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

```

INPUT PIN IS      1
INST # PIN MEASURED LT GT
586 1.059 500.0E-03 3
INPUT PIN IS      3
INST # PIN MEASURED LT GT
586 1.139 500.0E-03 3
INPUT PIN IS      5
INST # PIN MEASURED LT GT
586 1.219 500.0E-03 3
INPUT PIN IS      9
INST # PIN MEASURED LT GT
586 1.299 500.0E-03 3
INPUT PIN IS     11
INST # PIN MEASURED LT GT
586 1.379 500.0E-03 3
INPUT PIN IS     13
INST # PIN MEASURED LT GT
586 1.459 500.0E-03 3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
619 1 -4.000NA -1.000UA 1.000UA
622 1 2.000NA -1.000UA 1.000UA
627 3 -4.000NA -1.000UA 1.000UA
630 3 2.000NA -1.000UA 1.000UA
635 5 -4.000NA -1.000UA 1.000UA
638 5 2.000NA -1.000UA 1.000UA
643 9 -4.000NA -1.000UA 1.000UA
646 9 2.000NA -1.000UA 1.000UA
651 11 -4.000NA -1.000UA 1.000UA
654 11 2.000NA -1.000UA 1.000UA
659 13 -4.000NA -1.000UA 1.000UA
662 13 2.000NA -1.000UA 1.000UA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
691 14 0 A 40.00UA
INST # PIN MEASURED LT GT
698 14 0 A 40.00UA

```

```

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 5

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-650.0MV	-1.500 V	-100.0MV
57	3	-650.0MV	-1.500 V	-100.0MV
57	5	-650.0MV	-1.500 V	-100.0MV
57	9	-650.0MV	-1.500 V	-100.0MV
57	11	-650.0MV	-1.500 V	-100.0MV
57	13	-650.0MV	-1.500 V	-100.0MV
57	14	-520.0MV	-1.500 V	-100.0MV
67	2	570.0MV	100.0MV	1.500 V
67	4	570.0MV	100.0MV	1.500 V
67	6	570.0MV	100.0MV	1.500 V
67	8	570.0MV	100.0MV	1.500 V
67	10	570.0MV	100.0MV	1.500 V
67	12	560.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.790 V	2.200 V	
248	4	2.800 V	2.200 V	
254	6	2.800 V	2.200 V	
260	8	2.800 V	2.200 V	
266	10	2.790 V	2.200 V	
272	12	2.800 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	90.00MV		400.0MV
352	4	80.00MV		400.0MV
358	6	78.00MV		400.0MV
364	8	82.00MV		400.0MV
370	10	92.00MV		400.0MV
376	12	82.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.230 V	3.700 V
248	4	4.250 V	3.700 V
254	6	4.250 V	3.700 V
260	8	4.240 V	3.700 V
266	10	4.230 V	3.700 V
272	12	4.250 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	114.0MV		400.0MV
352	4	96.00MV		400.0MV
358	6	96.00MV		400.0MV
364	8	100.0MV		400.0MV
370	10	114.0MV		400.0MV
376	12	98.00MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.730 V	5.200 V	
248	4	5.760 V	5.200 V	
254	6	5.760 V	5.200 V	
260	8	5.750 V	5.200 V	
266	10	5.730 V	5.200 V	
272	12	5.760 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	124.0MV		400.0MV
352	4	102.0MV		400.0MV
358	6	102.0MV		400.0MV
364	8	108.0MV		400.0MV
370	10	126.0MV		400.0MV
376	12	106.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	950.0E-03	1.500
3	519		1.200	950.0E-03	1.500
5	519		1.240	950.0E-03	1.500
9	519		1.280	950.0E-03	1.500
11	519		1.320	950.0E-03	1.500
13	519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		600.0E-03	300.0E-03	950.0E-03
3	567		560.0E-03	300.0E-03	950.0E-03
5	567		520.0E-03	300.0E-03	950.0E-03
9	567		480.0E-03	300.0E-03	950.0E-03
11	567		440.0E-03	300.0E-03	950.0E-03
13	567		400.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA     -1.000UA     1.000UA
   622      1  2.000NA     -1.000UA     1.000UA
   627      3  -4.000NA     -1.000UA     1.000UA
   630      3  2.000NA     -1.000UA     1.000UA
   635      5  -4.000NA     -1.000UA     1.000UA
   638      5  2.000NA     -1.000UA     1.000UA
   643      9  -4.000NA     -1.000UA     1.000UA
   646      9  2.000NA     -1.000UA     1.000UA
   651     11  -4.000NA     -1.000UA     1.000UA
   654     11  2.000NA     -1.000UA     1.000UA
   659     13  -4.000NA     -1.000UA     1.000UA
   662     13  2.000NA     -1.000UA     1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14      0 A      LT      40.00UA
INST #  PIN  MEASURED      LT      GT
   698     14      0 A      LT      40.00UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 6

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-610.0MV	-1.500 V	-100.0MV
57	3	-610.0MV	-1.500 V	-100.0MV
57	5	-610.0MV	-1.500 V	-100.0MV
57	9	-610.0MV	-1.500 V	-100.0MV
57	11	-610.0MV	-1.500 V	-100.0MV
57	13	-610.0MV	-1.500 V	-100.0MV
57	14	-470.0MV	-1.500 V	-100.0MV
67	2	530.0MV	100.0MV	1.500 V
67	4	530.0MV	100.0MV	1.500 V
67	6	520.0MV	100.0MV	1.500 V
67	8	520.0MV	100.0MV	1.500 V
67	10	530.0MV	100.0MV	1.500 V
67	12	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.780 V	2.200 V	
248	4	2.790 V	2.200 V	
254	6	2.790 V	2.200 V	
260	8	2.790 V	2.200 V	
266	10	2.780 V	2.200 V	
272	12	2.790 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	96.00MV		400.0MV
352	4	86.00MV		400.0MV
358	6	84.00MV		400.0MV
364	8	86.00MV		400.0MV
370	10	102.0MV		400.0MV
376	12	88.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.220 V	3.700 V
248	4	4.240 V	3.700 V
254	6	4.240 V	3.700 V
260	8	4.230 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.240 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	122.0MV		400.0MV
352	4	102.0MV		400.0MV
358	6	102.0MV		400.0MV
364	8	108.0MV		400.0MV
370	10	132.0MV		400.0MV
376	12	108.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.720 V	5.200 V	
248	4	5.750 V	5.200 V	
254	6	5.750 V	5.200 V	
260	8	5.740 V	5.200 V	
266	10	5.710 V	5.200 V	
272	12	5.750 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	136.0MV		400.0MV
352	4	110.0MV		400.0MV
358	6	112.0MV		400.0MV
364	8	116.0MV		400.0MV
370	10	146.0MV		400.0MV
376	12	118.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		680.3E-03	250.0E-03	1.650
3	586		760.4E-03	250.0E-03	1.650
5	586		840.4E-03	250.0E-03	1.650
9	586		920.4E-03	250.0E-03	1.650
11	586		1.000	250.0E-03	1.650
13	586		1.080	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.141	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.981      1.200      2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.019      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.099      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.179      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.259      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.339      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.419      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -4.000NA      -1.000UA      1.000UA
   622      1  2.000NA      -1.000UA      1.000UA
   627      3  -4.000NA      -1.000UA      1.000UA
   630      3  2.000NA      -1.000UA      1.000UA
   635      5  -4.000NA      -1.000UA      1.000UA
   638      5  2.000NA      -1.000UA      1.000UA
   643      9  -4.000NA      -1.000UA      1.000UA
   646      9  2.000NA      -1.000UA      1.000UA
   651     11  -4.000NA      -1.000UA      1.000UA
   654     11  2.000NA      -1.000UA      1.000UA
   659     13  -4.000NA      -1.000UA      1.000UA
   662     13  2.000NA      -1.000UA      1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14      0 A      40.00UA
INST #  PIN  MEASURED      LT      GT
   698     14      0 A      40.00UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 7

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-650.0MV	-1.500 V	-100.0MV
57	3	-650.0MV	-1.500 V	-100.0MV
57	5	-650.0MV	-1.500 V	-100.0MV
57	9	-650.0MV	-1.500 V	-100.0MV
57	11	-650.0MV	-1.500 V	-100.0MV
57	13	-650.0MV	-1.500 V	-100.0MV
57	14	-520.0MV	-1.500 V	-100.0MV
67	2	570.0MV	100.0MV	1.500 V
67	4	570.0MV	100.0MV	1.500 V
67	6	560.0MV	100.0MV	1.500 V
67	8	570.0MV	100.0MV	1.500 V
67	10	570.0MV	100.0MV	1.500 V
67	12	560.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.200 V	
248	4	2.810 V	2.200 V	
254	6	2.810 V	2.200 V	
260	8	2.800 V	2.200 V	
266	10	2.790 V	2.200 V	
272	12	2.800 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	86.00MV		400.0MV
352	4	74.00MV		400.0MV
358	6	74.00MV		400.0MV
364	8	78.00MV		400.0MV
370	10	92.00MV		400.0MV
376	12	76.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.240 V	3.700 V
248	4	4.260 V	3.700 V
254	6	4.260 V	3.700 V
260	8	4.250 V	3.700 V
266	10	4.230 V	3.700 V
272	12	4.260 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	108.0MV		400.0MV
352	4	88.00MV		400.0MV
358	6	88.00MV		400.0MV
364	8	94.00MV		400.0MV
370	10	116.0MV		400.0MV
376	12	92.00MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.740 V	5.200 V	
248	4	5.760 V	5.200 V	
254	6	5.770 V	5.200 V	
260	8	5.760 V	5.200 V	
266	10	5.740 V	5.200 V	
272	12	5.770 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	118.0MV		400.0MV
352	4	94.00MV		400.0MV
358	6	94.00MV		400.0MV
364	8	100.0MV		400.0MV
370	10	130.0MV		400.0MV
376	12	100.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2.050
3	567		1.480	900.0E-03	2.050
5	567		1.440	900.0E-03	2.050
9	567		1.400	900.0E-03	2.050
11	567		1.360	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.650

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
IIN TEST
VCC=      6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA  -1.000UA  1.000UA
   622      1  2.000NA  -1.000UA  1.000UA
   627      3  -4.000NA  -1.000UA  1.000UA
   630      3  2.000NA  -1.000UA  1.000UA
   635      5  -4.000NA  -1.000UA  1.000UA
   638      5  2.000NA  -1.000UA  1.000UA
   643      9  -4.000NA  -1.000UA  1.000UA
   646      9  2.000NA  -1.000UA  1.000UA
   651     11  -4.000NA  -1.000UA  1.000UA
   654     11  2.000NA  -1.000UA  1.000UA
   659     13  -4.000NA  -1.000UA  1.000UA
   662     13  2.000NA  -1.000UA  1.000UA

```

```

-----
ICC TEST
VCC=      6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14      0 A      40.00UA
INST #  PIN  MEASURED      LT      GT
   698     14      0 A      40.00UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 8

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-650.0MV	-1.500 V	-100.0MV
57	3	-650.0MV	-1.500 V	-100.0MV
57	5	-650.0MV	-1.500 V	-100.0MV
57	9	-650.0MV	-1.500 V	-100.0MV
57	11	-650.0MV	-1.500 V	-100.0MV
57	13	-650.0MV	-1.500 V	-100.0MV
57	14	-520.0MV	-1.500 V	-100.0MV
67	2	570.0MV	100.0MV	1.500 V
67	4	570.0MV	100.0MV	1.500 V
67	6	570.0MV	100.0MV	1.500 V
67	8	570.0MV	100.0MV	1.500 V
67	10	570.0MV	100.0MV	1.500 V
67	12	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.980 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.200 V	
248	4	2.810 V	2.200 V	
254	6	2.810 V	2.200 V	
260	8	2.810 V	2.200 V	
266	10	2.790 V	2.200 V	
272	12	2.810 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	86.00MV		400.0MV
352	4	74.00MV		400.0MV
358	6	74.00MV		400.0MV
364	8	78.00MV		400.0MV
370	10	88.00MV		400.0MV
376	12	76.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.240 V	3.700 V
248	4	4.260 V	3.700 V
254	6	4.260 V	3.700 V
260	8	4.250 V	3.700 V
266	10	4.240 V	3.700 V
272	12	4.260 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	108.0MV		400.0MV
352	4	90.00MV		400.0MV
358	6	90.00MV		400.0MV
364	8	96.00MV		400.0MV
370	10	114.0MV		400.0MV
376	12	94.00MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.750 V	5.200 V	
248	4	5.770 V	5.200 V	
254	6	5.770 V	5.200 V	
260	8	5.760 V	5.200 V	
266	10	5.740 V	5.200 V	
272	12	5.770 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	120.0MV		400.0MV
352	4	98.00MV		400.0MV
358	6	96.00MV		400.0MV
364	8	104.0MV		400.0MV
370	10	128.0MV		400.0MV
376	12	102.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2.050
3	567		1.480	900.0E-03	2.050
5	567		1.440	900.0E-03	2.050
9	567		1.400	900.0E-03	2.050
11	567		1.360	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA     -1.000UA     1.000UA
   622      1   2.000NA     -1.000UA     1.000UA
   627      3  -4.000NA     -1.000UA     1.000UA
   630      3   2.000NA     -1.000UA     1.000UA
   635      5  -4.000NA     -1.000UA     1.000UA
   638      5   2.000NA     -1.000UA     1.000UA
   643      9  -4.000NA     -1.000UA     1.000UA
   646      9   2.000NA     -1.000UA     1.000UA
   651     11  -4.000NA     -1.000UA     1.000UA
   654     11   2.000NA     -1.000UA     1.000UA
   659     13  -4.000NA     -1.000UA     1.000UA
   662     13   2.000NA     -1.000UA     1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14      0 A      LT      40.00UA
INST #  PIN  MEASURED      LT      GT
   698     14      0 A      LT      40.00UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 9

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-650.0MV	-1.500 V	-100.0MV
57	3	-650.0MV	-1.500 V	-100.0MV
57	5	-640.0MV	-1.500 V	-100.0MV
57	9	-640.0MV	-1.500 V	-100.0MV
57	11	-640.0MV	-1.500 V	-100.0MV
57	13	-650.0MV	-1.500 V	-100.0MV
57	14	-510.0MV	-1.500 V	-100.0MV
67	2	560.0MV	100.0MV	1.500 V
67	4	560.0MV	100.0MV	1.500 V
67	6	560.0MV	100.0MV	1.500 V
67	8	560.0MV	100.0MV	1.500 V
67	10	560.0MV	100.0MV	1.500 V
67	12	560.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.790 V	2.200 V	
248	4	2.800 V	2.200 V	
254	6	2.800 V	2.200 V	
260	8	2.800 V	2.200 V	
266	10	2.790 V	2.200 V	
272	12	2.800 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	88.00MV		400.0MV
352	4	78.00MV		400.0MV
358	6	78.00MV		400.0MV
364	8	80.00MV		400.0MV
370	10	92.00MV		400.0MV
376	12	78.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.230 V	3.700 V
248	4	4.250 V	3.700 V
254	6	4.250 V	3.700 V
260	8	4.240 V	3.700 V
266	10	4.230 V	3.700 V
272	12	4.250 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	112.0MV		400.0MV
352	4	94.00MV		400.0MV
358	6	94.00MV		400.0MV
364	8	98.00MV		400.0MV
370	10	118.0MV		400.0MV
376	12	96.00MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.740 V	5.200 V	
248	4	5.760 V	5.200 V	
254	6	5.760 V	5.200 V	
260	8	5.750 V	5.200 V	
266	10	5.730 V	5.200 V	
272	12	5.760 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	122.0MV		400.0MV
352	4	100.0MV		400.0MV
358	6	100.0MV		400.0MV
364	8	104.0MV		400.0MV
370	10	132.0MV		400.0MV
376	12	106.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	950.0E-03	1.500
3	519		1.200	950.0E-03	1.500
5	519		1.240	950.0E-03	1.500
9	519		1.280	950.0E-03	1.500
11	519		1.320	950.0E-03	1.500
13	519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		600.0E-03	300.0E-03	950.0E-03
3	567		560.0E-03	300.0E-03	950.0E-03
5	567		520.0E-03	300.0E-03	950.0E-03
9	567		480.0E-03	300.0E-03	950.0E-03
11	567		440.0E-03	300.0E-03	950.0E-03
13	567		400.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		680.3E-03	250.0E-03	1.650
3	586		760.4E-03	250.0E-03	1.650
5	586		840.4E-03	250.0E-03	1.650
9	586		920.4E-03	250.0E-03	1.650
11	586		1.000	250.0E-03	1.650
13	586		1.080	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2.050
3	567		1.480	900.0E-03	2.050
5	567		1.440	900.0E-03	2.050
9	567		1.400	900.0E-03	2.050
11	567		1.360	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -1.000UA    1.000UA
   622    1   2.000NA    -1.000UA    1.000UA
   627    3  -4.000NA    -1.000UA    1.000UA
   630    3   2.000NA    -1.000UA    1.000UA
   635    5  -4.000NA    -1.000UA    1.000UA
   638    5   2.000NA    -1.000UA    1.000UA
   643    9  -4.000NA    -1.000UA    1.000UA
   646    9   2.000NA    -1.000UA    1.000UA
   651   11  -4.000NA    -1.000UA    1.000UA
   654   11   2.000NA    -1.000UA    1.000UA
   659   13  -4.000NA    -1.000UA    1.000UA
   662   13   2.000NA    -1.000UA    1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14      0 A      40.00UA
INST #  PIN  MEASURED      LT      GT
   698   14      0 A      40.00UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 10

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-620.0MV	-1.500 V	-100.0MV
57	3	-620.0MV	-1.500 V	-100.0MV
57	5	-620.0MV	-1.500 V	-100.0MV
57	9	-620.0MV	-1.500 V	-100.0MV
57	11	-620.0MV	-1.500 V	-100.0MV
57	13	-620.0MV	-1.500 V	-100.0MV
57	14	-490.0MV	-1.500 V	-100.0MV
67	2	540.0MV	100.0MV	1.500 V
67	4	540.0MV	100.0MV	1.500 V
67	6	540.0MV	100.0MV	1.500 V
67	8	540.0MV	100.0MV	1.500 V
67	10	540.0MV	100.0MV	1.500 V
67	12	540.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.980 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.780 V	2.200 V	
248	4	2.790 V	2.200 V	
254	6	2.790 V	2.200 V	
260	8	2.790 V	2.200 V	
266	10	2.780 V	2.200 V	
272	12	2.790 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	98.00MV		400.0MV
352	4	88.00MV		400.0MV
358	6	86.00MV		400.0MV
364	8	90.00MV		400.0MV
370	10	104.0MV		400.0MV
376	12	88.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.220 V	3.700 V
248	4	4.230 V	3.700 V
254	6	4.240 V	3.700 V
260	8	4.230 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.240 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	122.0MV		400.0MV
352	4	104.0MV		400.0MV
358	6	104.0MV		400.0MV
364	8	110.0MV		400.0MV
370	10	130.0MV		400.0MV
376	12	110.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.720 V	5.200 V	
248	4	5.740 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.740 V	5.200 V	
266	10	5.720 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	134.0MV		400.0MV
352	4	110.0MV		400.0MV
358	6	112.0MV		400.0MV
364	8	118.0MV		400.0MV
370	10	146.0MV		400.0MV
376	12	118.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	950.0E-03	1.500
3	519		1.200	950.0E-03	1.500
5	519		1.240	950.0E-03	1.500
9	519		1.280	950.0E-03	1.500
11	519		1.320	950.0E-03	1.500
13	519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		640.0E-03	300.0E-03	950.0E-03
3	567		600.0E-03	300.0E-03	950.0E-03
5	567		560.0E-03	300.0E-03	950.0E-03
9	567		520.0E-03	300.0E-03	950.0E-03
11	567		480.0E-03	300.0E-03	950.0E-03
13	567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.250	3.150
3	519		2.480	2.250	3.150
5	519		2.520	2.250	3.150
9	519		2.560	2.250	3.150
11	519		2.600	2.250	3.150
13	519		2.640	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.360	900.0E-03	2.050

VH TEST (HYSTERESIS)
VCC= 4.500
MIN= 400.0E-03
MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.6E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

VTP TEST (VT+)
VCC= 6
MIN= 2.950
MAX= 4.200
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.200	2.950	4.200
					3
	519		3.240	2.950	4.200
					5
	519		3.280	2.950	4.200
					9
	519		3.320	2.950	4.200
					11
	519		3.360	2.950	4.200
					13
	519		3.399	2.950	4.200

VTN TEST (VT-)
VCC= 6
MIN= 1.200
MAX= 2.650
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.141	1.200	2.650
					3
	567		2.101	1.200	2.650
					5
	567		2.061	1.200	2.650
					9
	567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST # PIN MEASURED LT GT
567 1.981 1.200 2.650
INPUT PIN IS      13
INST # PIN MEASURED LT GT
567 1.941 1.200 2.650

```

```

-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

```

INPUT PIN IS      1
INST # PIN MEASURED LT GT
586 1.059 500.0E-03 3
INPUT PIN IS      3
INST # PIN MEASURED LT GT
586 1.139 500.0E-03 3
INPUT PIN IS      5
INST # PIN MEASURED LT GT
586 1.219 500.0E-03 3
INPUT PIN IS      9
INST # PIN MEASURED LT GT
586 1.299 500.0E-03 3
INPUT PIN IS     11
INST # PIN MEASURED LT GT
586 1.379 500.0E-03 3
INPUT PIN IS     13
INST # PIN MEASURED LT GT
586 1.459 500.0E-03 3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
619 1 -3.000NA -1.000UA 1.000UA
622 1 2.000NA -1.000UA 1.000UA
627 3 -4.000NA -1.000UA 1.000UA
630 3 2.000NA -1.000UA 1.000UA
635 5 -4.000NA -1.000UA 1.000UA
638 5 2.000NA -1.000UA 1.000UA
643 9 -4.000NA -1.000UA 1.000UA
646 9 2.000NA -1.000UA 1.000UA
651 11 -4.000NA -1.000UA 1.000UA
654 11 2.000NA -1.000UA 1.000UA
659 13 -4.000NA -1.000UA 1.000UA
662 13 2.000NA -1.000UA 1.000UA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
691 14 0 A 40.00UA
INST # PIN MEASURED LT GT
698 14 0 A 40.00UA

```

```

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 11

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-590.0MV	-1.500 V	-100.0MV
57	3	-590.0MV	-1.500 V	-100.0MV
57	5	-590.0MV	-1.500 V	-100.0MV
57	9	-590.0MV	-1.500 V	-100.0MV
57	11	-580.0MV	-1.500 V	-100.0MV
57	13	-590.0MV	-1.500 V	-100.0MV
57	14	-440.0MV	-1.500 V	-100.0MV
67	2	500.0MV	100.0MV	1.500 V
67	4	500.0MV	100.0MV	1.500 V
67	6	500.0MV	100.0MV	1.500 V
67	8	500.0MV	100.0MV	1.500 V
67	10	500.0MV	100.0MV	1.500 V
67	12	500.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.780 V	2.200 V	
248	4	2.780 V	2.200 V	
254	6	2.790 V	2.200 V	
260	8	2.780 V	2.200 V	
266	10	2.770 V	2.200 V	
272	12	2.780 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		400.0MV
352	4	92.00MV		400.0MV
358	6	90.00MV		400.0MV
364	8	94.00MV		400.0MV
370	10	108.0MV		400.0MV
376	12	96.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.210 V	3.700 V
248	4	4.230 V	3.700 V
254	6	4.230 V	3.700 V
260	8	4.220 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.230 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	130.0MV		400.0MV
352	4	112.0MV		400.0MV
358	6	110.0MV		400.0MV
364	8	114.0MV		400.0MV
370	10	136.0MV		400.0MV
376	12	116.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.200 V	
248	4	5.730 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.730 V	5.200 V	
266	10	5.710 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	142.0MV		400.0MV
352	4	116.0MV		400.0MV
358	6	116.0MV		400.0MV
364	8	122.0MV		400.0MV
370	10	152.0MV		400.0MV
376	12	122.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	950.0E-03	1.500
3	519		1.200	950.0E-03	1.500
5	519		1.240	950.0E-03	1.500
9	519		1.280	950.0E-03	1.500
11	519		1.320	950.0E-03	1.500
13	519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		640.0E-03	300.0E-03	950.0E-03
3	567		600.0E-03	300.0E-03	950.0E-03
5	567		560.0E-03	300.0E-03	950.0E-03
9	567		520.0E-03	300.0E-03	950.0E-03
11	567		480.0E-03	300.0E-03	950.0E-03
13	567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		680.3E-03	250.0E-03	1.650
3	586		760.4E-03	250.0E-03	1.650
5	586		840.4E-03	250.0E-03	1.650
9	586		920.4E-03	250.0E-03	1.650
11	586		1.000	250.0E-03	1.650
13	586		1.080	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -4.000NA      -1.000UA      1.000UA
   622      1  2.000NA      -1.000UA      1.000UA
   627      3  -4.000NA      -1.000UA      1.000UA
   630      3  2.000NA      -1.000UA      1.000UA
   635      5  -4.000NA      -1.000UA      1.000UA
   638      5  2.000NA      -1.000UA      1.000UA
   643      9  -4.000NA      -1.000UA      1.000UA
   646      9  2.000NA      -1.000UA      1.000UA
   651     11  -4.000NA      -1.000UA      1.000UA
   654     11  2.000NA      -1.000UA      1.000UA
   659     13  -4.000NA      -1.000UA      1.000UA
   662     13  2.000NA      -1.000UA      1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14      0 A      40.00UA
INST #  PIN  MEASURED      LT      GT
   698     14      0 A      40.00UA

```

```

EIR 1.....10  FCT  DCT
      0000000000  PASS  PASS  EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM 4HC14 S/N 12

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-610.0MV	-1.500 V	-100.0MV
57	3	-600.0MV	-1.500 V	-100.0MV
57	5	-600.0MV	-1.500 V	-100.0MV
57	9	-600.0MV	-1.500 V	-100.0MV
57	11	-600.0MV	-1.500 V	-100.0MV
57	13	-600.0MV	-1.500 V	-100.0MV
57	14	-460.0MV	-1.500 V	-100.0MV
67	2	520.0MV	100.0MV	1.500 V
67	4	520.0MV	100.0MV	1.500 V
67	6	520.0MV	100.0MV	1.500 V
67	8	520.0MV	100.0MV	1.500 V
67	10	520.0MV	100.0MV	1.500 V
67	12	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.980 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.780 V	2.200 V	
248	4	2.790 V	2.200 V	
254	6	2.790 V	2.200 V	
260	8	2.780 V	2.200 V	
266	10	2.780 V	2.200 V	
272	12	2.790 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	98.00MV		400.0MV
352	4	86.00MV		400.0MV
358	6	86.00MV		400.0MV
364	8	88.00MV		400.0MV
370	10	102.0MV		400.0MV
376	12	90.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
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242	2	4.210 V	3.700 V
248	4	4.230 V	3.700 V
254	6	4.240 V	3.700 V
260	8	4.230 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.240 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	122.0MV		400.0MV
352	4	104.0MV		400.0MV
358	6	106.0MV		400.0MV
364	8	110.0MV		400.0MV
370	10	130.0MV		400.0MV
376	12	108.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.720 V	5.200 V	
248	4	5.740 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.730 V	5.200 V	
266	10	5.710 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
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293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	136.0MV		400.0MV
352	4	112.0MV		400.0MV
358	6	110.0MV		400.0MV
364	8	116.0MV		400.0MV
370	10	146.0MV		400.0MV
376	12	116.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		680.3E-03	250.0E-03	1.650
3	586		760.4E-03	250.0E-03	1.650
5	586		840.4E-03	250.0E-03	1.650
9	586		920.4E-03	250.0E-03	1.650
11	586		1.000	250.0E-03	1.650
13	586		1.080	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.650

```

INPUT PIN IS      11
INST # PIN MEASURED LT GT
567 1.941 1.200 2.650
INPUT PIN IS      13
INST # PIN MEASURED LT GT
567 1.901 1.200 2.650

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-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

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INPUT PIN IS      1
INST # PIN MEASURED LT GT
586 1.059 500.0E-03 3
INPUT PIN IS      3
INST # PIN MEASURED LT GT
586 1.139 500.0E-03 3
INPUT PIN IS      5
INST # PIN MEASURED LT GT
586 1.219 500.0E-03 3
INPUT PIN IS      9
INST # PIN MEASURED LT GT
586 1.299 500.0E-03 3
INPUT PIN IS     11
INST # PIN MEASURED LT GT
586 1.379 500.0E-03 3
INPUT PIN IS     13
INST # PIN MEASURED LT GT
586 1.459 500.0E-03 3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
619 1 -4.000NA -1.000UA 1.000UA
622 1 2.000NA -1.000UA 1.000UA
627 3 -4.000NA -1.000UA 1.000UA
630 3 2.000NA -1.000UA 1.000UA
635 5 -4.000NA -1.000UA 1.000UA
638 5 2.000NA -1.000UA 1.000UA
643 9 -4.000NA -1.000UA 1.000UA
646 9 2.000NA -1.000UA 1.000UA
651 11 -4.000NA -1.000UA 1.000UA
654 11 2.000NA -1.000UA 1.000UA
659 13 -4.000NA -1.000UA 1.000UA
662 13 2.000NA -1.000UA 1.000UA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST # PIN MEASURED LT GT
691 14 0 A 40.00UA
INST # PIN MEASURED LT GT
698 14 0 A 40.00UA

```

```

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT

```



MIL-PRF-38534 CLASS K DATAPACK

Post Burn-In Test Results at -55°C



STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 1

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-760.0MV	-1.500 V	-100.0MV
57	3	-760.0MV	-1.500 V	-100.0MV
57	5	-760.0MV	-1.500 V	-100.0MV
57	9	-760.0MV	-1.500 V	-100.0MV
57	11	-760.0MV	-1.500 V	-100.0MV
57	13	-760.0MV	-1.500 V	-100.0MV
57	14	-640.0MV	-1.500 V	-100.0MV
67	2	680.0MV	100.0MV	1.500 V
67	4	680.0MV	100.0MV	1.500 V
67	6	680.0MV	100.0MV	1.500 V
67	8	680.0MV	100.0MV	1.500 V
67	10	680.0MV	100.0MV	1.500 V
67	12	680.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.980 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
189	2	2.980 V	2.900 V	
195	4	2.980 V	2.900 V	
201	6	2.980 V	2.900 V	

207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.830 V	2.480 V	
248	4	2.850 V	2.480 V	
254	6	2.850 V	2.480 V	
260	8	2.840 V	2.480 V	
266	10	2.830 V	2.480 V	
272	12	2.850 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	66.00MV		260.0MV
352	4	54.00MV		260.0MV
358	6	54.00MV		260.0MV
364	8	58.00MV		260.0MV
370	10	64.00MV		260.0MV
376	12	54.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
242	2	4.290 V	3.980 V	
248	4	4.310 V	3.980 V	
254	6	4.310 V	3.980 V	

260	8	4.290 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.300 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	78.00MV		260.0MV
352	4	62.00MV		260.0MV
358	6	60.00MV		260.0MV
364	8	70.00MV		260.0MV
370	10	82.00MV		260.0MV
376	12	64.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.800 V	5.480 V	
248	4	5.820 V	5.480 V	
254	6	5.820 V	5.480 V	
260	8	5.810 V	5.480 V	
266	10	5.790 V	5.480 V	
272	12	5.820 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV

311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	86.00MV		260.0MV
352	4	64.00MV		260.0MV
358	6	64.00MV		260.0MV
364	8	74.00MV		260.0MV
370	10	92.00MV		260.0MV
376	12	66.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	1	1.500
3	519		1.200	1	1.500
5	519		1.240	1	1.500
9	519		1.280	1	1.500
11	519		1.320	1	1.500
13	519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		600.0E-03	300.0E-03	900.0E-03
3	567		560.0E-03	300.0E-03	900.0E-03
5	567		520.0E-03	300.0E-03	900.0E-03
9	567		480.0E-03	300.0E-03	900.0E-03
11	567		440.0E-03	300.0E-03	900.0E-03
13	567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)
VCC= 2
MIN= 200.0E-03
MAX= 1.200

```

-----
INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  586      560.0E-03    200.0E-03    1.200
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  586      640.0E-03    200.0E-03    1.200
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  586      720.0E-03    200.0E-03    1.200
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  586      800.0E-03    200.0E-03    1.200
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  586      880.0E-03    200.0E-03    1.200
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  586      960.0E-03    200.0E-03    1.200

```

```

-----
VTP TEST (VT+)
VCC=      3
MIN=    1.500
MAX=    2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  519      1.700      1.500      2.150
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  519      1.740      1.500      2.150
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  519      1.780      1.500      2.150
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  519      1.820      1.500      2.150
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  519      1.860      1.500      2.150
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  519      1.900      1.500      2.150

```

```

-----
VTN TEST (VT-)
VCC=      3
MIN=    500.0E-03
MAX=    1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  567      939.8E-03    500.0E-03    1.450
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  567      899.8E-03    500.0E-03    1.450
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  567      859.8E-03    500.0E-03    1.450
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  567      819.8E-03    500.0E-03    1.450
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  567      779.8E-03    500.0E-03    1.450
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  567      739.9E-03    500.0E-03    1.450

```

```

-----
VH TEST (HYSTERESIS)
-----

```


VCC= 3
MIN= 250.0E-03
MAX= 1.650

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 760.4E-03 250.0E-03 1.650
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 840.4E-03 250.0E-03 1.650
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 920.4E-03 250.0E-03 1.650
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 1.000 250.0E-03 1.650
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 1.080 250.0E-03 1.650
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 1.160 250.0E-03 1.650

VTP TEST (VT+)
VCC= 4.500
MIN= 2.300
MAX= 3.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 2.400 2.300 3.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 2.440 2.300 3.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 2.480 2.300 3.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 2.520 2.300 3.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 2.560 2.300 3.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 2.600 2.300 3.150

VTN TEST (VT-)
VCC= 4.500
MIN= 900.0E-03
MAX= 2
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.520 900.0E-03 2
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 1.480 900.0E-03 2
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 1.440 900.0E-03 2
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 1.400 900.0E-03 2
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 1.360 900.0E-03 2
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 1.320 900.0E-03 2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		879.7E-03	400.0E-03	2.250
3	586		959.7E-03	400.0E-03	2.250
5	586		1.040	400.0E-03	2.250
9	586		1.120	400.0E-03	2.250
11	586		1.200	400.0E-03	2.250
13	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		3.120	3	4.200
3	519		3.160	3	4.200
5	519		3.200	3	4.200
9	519		3.240	3	4.200
11	519		3.280	3	4.200
13	519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		2.061	1.200	2.600
3	567		2.021	1.200	2.600
5	567		1.981	1.200	2.600
9	567		1.941	1.200	2.600
11	567		1.901	1.200	2.600

```

INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.861      1.200      2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA  -100.0NA  100.0NA
   622      1   2.000NA  -100.0NA  100.0NA
   627      3  -4.000NA  -100.0NA  100.0NA
   630      3   2.000NA  -100.0NA  100.0NA
   635      5  -4.000NA  -100.0NA  100.0NA
   638      5   2.000NA  -100.0NA  100.0NA
   643      9  -4.000NA  -100.0NA  100.0NA
   646      9   2.000NA  -100.0NA  100.0NA
   651     11  -4.000NA  -100.0NA  100.0NA
   654     11   2.000NA  -100.0NA  100.0NA
   659     13  -4.000NA  -100.0NA  100.0NA
   662     13   2.000NA  -100.0NA  100.0NA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14   5.000NA
   698     14   2.000NA

```

```

EIR 1.....10  FCT  DCT
0000000000  PASS PASS  EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 2

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-720.0MV	-1.500 V	-100.0MV
57	3	-720.0MV	-1.500 V	-100.0MV
57	5	-720.0MV	-1.500 V	-100.0MV
57	9	-720.0MV	-1.500 V	-100.0MV
57	11	-720.0MV	-1.500 V	-100.0MV
57	13	-730.0MV	-1.500 V	-100.0MV
57	14	-600.0MV	-1.500 V	-100.0MV
67	2	640.0MV	100.0MV	1.500 V
67	4	640.0MV	100.0MV	1.500 V
67	6	640.0MV	100.0MV	1.500 V
67	8	650.0MV	100.0MV	1.500 V
67	10	640.0MV	100.0MV	1.500 V
67	12	640.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.820 V	2.480 V	
248	4	2.840 V	2.480 V	
254	6	2.840 V	2.480 V	
260	8	2.830 V	2.480 V	
266	10	2.820 V	2.480 V	
272	12	2.840 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	70.00MV		260.0MV
352	4	58.00MV		260.0MV
358	6	58.00MV		260.0MV
364	8	64.00MV		260.0MV
370	10	74.00MV		260.0MV
376	12	60.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.280 V	3.980 V
248	4	4.300 V	3.980 V
254	6	4.290 V	3.980 V
260	8	4.280 V	3.980 V
266	10	4.270 V	3.980 V
272	12	4.290 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	86.000MV		260.0MV
352	4	68.000MV		260.0MV
358	6	68.000MV		260.0MV
364	8	76.000MV		260.0MV
370	10	92.000MV		260.0MV
376	12	70.000MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.790 V	5.480 V	
248	4	5.810 V	5.480 V	
254	6	5.810 V	5.480 V	
260	8	5.800 V	5.480 V	
266	10	5.770 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	96.00MV		260.0MV
352	4	70.00MV		260.0MV
358	6	72.00MV		260.0MV
364	8	80.00MV		260.0MV
370	10	106.0MV		260.0MV
376	12	74.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.120	3	4.200
					3
	519		3.160	3	4.200
					5
	519		3.200	3	4.200
					9
	519		3.240	3	4.200
					11
	519		3.280	3	4.200
					13
	519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.019      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.099      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.179      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.259      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.339      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.419      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA     -100.0NA     100.0NA
   622      1   2.000NA     -100.0NA     100.0NA
   627      3  -4.000NA     -100.0NA     100.0NA
   630      3   2.000NA     -100.0NA     100.0NA
   635      5  -4.000NA     -100.0NA     100.0NA
   638      5   2.000NA     -100.0NA     100.0NA
   643      9  -4.000NA     -100.0NA     100.0NA
   646      9   2.000NA     -100.0NA     100.0NA
   651     11  -4.000NA     -100.0NA     100.0NA
   654     11   2.000NA     -100.0NA     100.0NA
   659     13  -4.000NA     -100.0NA     100.0NA
   662     13   2.000NA     -100.0NA     100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14   5.000NA      1.000UA
   698     14   2.000NA      1.000UA

```

```

EIR 1.....10      FCT      DCT
      0000000000      PASS      PASS      EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 3

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-760.0MV	-1.500 V	-100.0MV
57	3	-760.0MV	-1.500 V	-100.0MV
57	5	-760.0MV	-1.500 V	-100.0MV
57	9	-760.0MV	-1.500 V	-100.0MV
57	11	-760.0MV	-1.500 V	-100.0MV
57	13	-760.0MV	-1.500 V	-100.0MV
57	14	-650.0MV	-1.500 V	-100.0MV
67	2	680.0MV	100.0MV	1.500 V
67	4	690.0MV	100.0MV	1.500 V
67	6	690.0MV	100.0MV	1.500 V
67	8	690.0MV	100.0MV	1.500 V
67	10	690.0MV	100.0MV	1.500 V
67	12	690.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.830 V	2.480 V	
248	4	2.840 V	2.480 V	
254	6	2.840 V	2.480 V	
260	8	2.830 V	2.480 V	
266	10	2.830 V	2.480 V	
272	12	2.840 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	66.00MV		260.0MV
352	4	56.00MV		260.0MV
358	6	56.00MV		260.0MV
364	8	62.00MV		260.0MV
370	10	68.00MV		260.0MV
376	12	58.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.280 V	3.980 V
248	4	4.300 V	3.980 V
254	6	4.300 V	3.980 V
260	8	4.290 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.300 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	80.00MV		260.0MV
352	4	64.00MV		260.0MV
358	6	64.00MV		260.0MV
364	8	74.00MV		260.0MV
370	10	84.00MV		260.0MV
376	12	68.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.790 V	5.480 V	
248	4	5.820 V	5.480 V	
254	6	5.820 V	5.480 V	
260	8	5.800 V	5.480 V	
266	10	5.790 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	88.00MV		260.0MV
352	4	68.00MV		260.0MV
358	6	66.00MV		260.0MV
364	8	78.00MV		260.0MV
370	10	90.00MV		260.0MV
376	12	70.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.940 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		800.4E-03	250.0E-03	1.650
3	586		880.4E-03	250.0E-03	1.650
5	586		960.4E-03	250.0E-03	1.650
9	586		1.040	250.0E-03	1.650
11	586		1.120	250.0E-03	1.650
13	586		1.200	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.941	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.861    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.099    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.179    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.259    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.339    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.419    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.499    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA  -100.0NA  100.0NA
   622    1   2.000NA  -100.0NA  100.0NA
   627    3  -4.000NA  -100.0NA  100.0NA
   630    3   2.000NA  -100.0NA  100.0NA
   635    5  -4.000NA  -100.0NA  100.0NA
   638    5   2.000NA  -100.0NA  100.0NA
   643    9  -4.000NA  -100.0NA  100.0NA
   646    9   2.000NA  -100.0NA  100.0NA
   651   11  -4.000NA  -100.0NA  100.0NA
   654   11   1.000NA  -100.0NA  100.0NA
   659   13  -4.000NA  -100.0NA  100.0NA
   662   13   2.000NA  -100.0NA  100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14   5.000NA          1.000UA
   698   14   2.000NA          1.000UA

```

```

EIR 1.....10  FCT  DCT
0000000000  PASS  PASS  EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 4

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-750.0MV	-1.500 V	-100.0MV
57	3	-750.0MV	-1.500 V	-100.0MV
57	5	-750.0MV	-1.500 V	-100.0MV
57	9	-750.0MV	-1.500 V	-100.0MV
57	11	-750.0MV	-1.500 V	-100.0MV
57	13	-750.0MV	-1.500 V	-100.0MV
57	14	-630.0MV	-1.500 V	-100.0MV
67	2	670.0MV	100.0MV	1.500 V
67	4	670.0MV	100.0MV	1.500 V
67	6	670.0MV	100.0MV	1.500 V
67	8	670.0MV	100.0MV	1.500 V
67	10	670.0MV	100.0MV	1.500 V
67	12	670.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.980 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.820 V	2.480 V	
248	4	2.830 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.820 V	2.480 V	
266	10	2.820 V	2.480 V	
272	12	2.830 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	70.00MV		260.0MV
352	4	58.00MV		260.0MV
358	6	60.00MV		260.0MV
364	8	68.00MV		260.0MV
370	10	70.00MV		260.0MV
376	12	62.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.280 V	3.980 V
248	4	4.290 V	3.980 V
254	6	4.290 V	3.980 V
260	8	4.280 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.290 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	86.000MV		260.0MV
352	4	66.000MV		260.0MV
358	6	68.000MV		260.0MV
364	8	80.000MV		260.0MV
370	10	86.000MV		260.0MV
376	12	72.000MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.790 V	5.480 V	
248	4	5.810 V	5.480 V	
254	6	5.810 V	5.480 V	
260	8	5.790 V	5.480 V	
266	10	5.780 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	94.00MV		260.0MV
352	4	70.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	86.00MV		260.0MV
370	10	94.00MV		260.0MV
376	12	74.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.940 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		800.4E-03	250.0E-03	1.650
3	586		880.4E-03	250.0E-03	1.650
5	586		960.4E-03	250.0E-03	1.650
9	586		1.040	250.0E-03	1.650
11	586		1.120	250.0E-03	1.650
13	586		1.200	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1   2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3   2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5   2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9   2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11   2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13   2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14   5.000NA           1.000UA
   698   14   2.000NA           1.000UA

```

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 5

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-750.0MV	-1.500 V	-100.0MV
57	3	-750.0MV	-1.500 V	-100.0MV
57	5	-750.0MV	-1.500 V	-100.0MV
57	9	-750.0MV	-1.500 V	-100.0MV
57	11	-750.0MV	-1.500 V	-100.0MV
57	13	-750.0MV	-1.500 V	-100.0MV
57	14	-640.0MV	-1.500 V	-100.0MV
67	2	680.0MV	100.0MV	1.500 V
67	4	680.0MV	100.0MV	1.500 V
67	6	680.0MV	100.0MV	1.500 V
67	8	680.0MV	100.0MV	1.500 V
67	10	680.0MV	100.0MV	1.500 V
67	12	680.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.830 V	2.480 V	
248	4	2.830 V	2.480 V	
254	6	2.840 V	2.480 V	
260	8	2.830 V	2.480 V	
266	10	2.830 V	2.480 V	
272	12	2.840 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	70.00MV		260.0MV
352	4	58.00MV		260.0MV
358	6	56.00MV		260.0MV
364	8	62.00MV		260.0MV
370	10	70.00MV		260.0MV
376	12	60.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.460 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.280 V	3.980 V
248	4	4.290 V	3.980 V
254	6	4.300 V	3.980 V
260	8	4.290 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.300 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	84.00MV		260.0MV
352	4	66.00MV		260.0MV
358	6	66.00MV		260.0MV
364	8	76.00MV		260.0MV
370	10	86.00MV		260.0MV
376	12	70.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.790 V	5.480 V	
248	4	5.810 V	5.480 V	
254	6	5.810 V	5.480 V	
260	8	5.800 V	5.480 V	
266	10	5.790 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	92.00MV		260.0MV
352	4	68.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	80.00MV		260.0MV
370	10	94.00MV		260.0MV
376	12	74.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		760.4E-03	250.0E-03	1.650
3	586		840.4E-03	250.0E-03	1.650
5	586		920.4E-03	250.0E-03	1.650
9	586		1.000	250.0E-03	1.650
11	586		1.080	250.0E-03	1.650
13	586		1.160	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		919.7E-03	400.0E-03	2.250
					3
	586		999.7E-03	400.0E-03	2.250
					5
	586		1.080	400.0E-03	2.250
					9
	586		1.160	400.0E-03	2.250
					11
	586		1.240	400.0E-03	2.250
					13
	586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1   2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3   2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5   2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9   2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11   2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13   2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14   6.000NA      1.000UA
   698   14   2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 6

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-750.0MV	-1.500 V	-100.0MV
57	3	-750.0MV	-1.500 V	-100.0MV
57	5	-750.0MV	-1.500 V	-100.0MV
57	9	-750.0MV	-1.500 V	-100.0MV
57	11	-750.0MV	-1.500 V	-100.0MV
57	13	-750.0MV	-1.500 V	-100.0MV
57	14	-640.0MV	-1.500 V	-100.0MV
67	2	670.0MV	100.0MV	1.500 V
67	4	680.0MV	100.0MV	1.500 V
67	6	680.0MV	100.0MV	1.500 V
67	8	680.0MV	100.0MV	1.500 V
67	10	680.0MV	100.0MV	1.500 V
67	12	670.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.980 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.830 V	2.480 V	
248	4	2.840 V	2.480 V	
254	6	2.840 V	2.480 V	
260	8	2.830 V	2.480 V	
266	10	2.830 V	2.480 V	
272	12	2.840 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	68.00MV		260.0MV
352	4	54.00MV		260.0MV
358	6	54.00MV		260.0MV
364	8	68.00MV		260.0MV
370	10	66.00MV		260.0MV
376	12	56.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.280 V	3.980 V
248	4	4.300 V	3.980 V
254	6	4.300 V	3.980 V
260	8	4.280 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.300 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	84.00MV		260.0MV
352	4	62.00MV		260.0MV
358	6	62.00MV		260.0MV
364	8	84.00MV		260.0MV
370	10	82.00MV		260.0MV
376	12	66.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.800 V	5.480 V	
248	4	5.820 V	5.480 V	
254	6	5.820 V	5.480 V	
260	8	5.790 V	5.480 V	
266	10	5.790 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	90.00MV		260.0MV
352	4	66.00MV		260.0MV
358	6	66.00MV		260.0MV
364	8	96.00MV		260.0MV
370	10	92.00MV		260.0MV
376	12	70.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
IIN TEST
VCC=      6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA      -100.0NA      100.0NA
   622      1  2.000NA      -100.0NA      100.0NA
   627      3  -4.000NA      -100.0NA      100.0NA
   630      3  2.000NA      -100.0NA      100.0NA
   635      5  -4.000NA      -100.0NA      100.0NA
   638      5  2.000NA      -100.0NA      100.0NA
   643      9  -4.000NA      -100.0NA      100.0NA
   646      9  2.000NA      -100.0NA      100.0NA
   651     11  -4.000NA      -100.0NA      100.0NA
   654     11  2.000NA      -100.0NA      100.0NA
   659     13  -4.000NA      -100.0NA      100.0NA
   662     13  2.000NA      -100.0NA      100.0NA

```

```

-----
ICC TEST
VCC=      6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14  5.000NA      1.000UA
   698     14  2.000NA      1.000UA

```

```

EIR 1.....10      FCT      DCT
      0000000000      PASS      PASS      EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 7

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-760.0MV	-1.500 V	-100.0MV
57	3	-760.0MV	-1.500 V	-100.0MV
57	5	-760.0MV	-1.500 V	-100.0MV
57	9	-760.0MV	-1.500 V	-100.0MV
57	11	-760.0MV	-1.500 V	-100.0MV
57	13	-760.0MV	-1.500 V	-100.0MV
57	14	-650.0MV	-1.500 V	-100.0MV
67	2	690.0MV	100.0MV	1.500 V
67	4	680.0MV	100.0MV	1.500 V
67	6	680.0MV	100.0MV	1.500 V
67	8	680.0MV	100.0MV	1.500 V
67	10	690.0MV	100.0MV	1.500 V
67	12	680.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.980 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.840 V	2.480 V	
248	4	2.850 V	2.480 V	
254	6	2.850 V	2.480 V	
260	8	2.840 V	2.480 V	
266	10	2.840 V	2.480 V	
272	12	2.850 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	66.00MV		260.0MV
352	4	54.00MV		260.0MV
358	6	54.00MV		260.0MV
364	8	60.00MV		260.0MV
370	10	64.00MV		260.0MV
376	12	54.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.460 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.290 V	3.980 V
248	4	4.300 V	3.980 V
254	6	4.310 V	3.980 V
260	8	4.290 V	3.980 V
266	10	4.290 V	3.980 V
272	12	4.310 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	82.000MV		260.0MV
352	4	62.000MV		260.0MV
358	6	60.000MV		260.0MV
364	8	74.000MV		260.0MV
370	10	78.000MV		260.0MV
376	12	64.000MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.800 V	5.480 V	
248	4	5.820 V	5.480 V	
254	6	5.820 V	5.480 V	
260	8	5.800 V	5.480 V	
266	10	5.800 V	5.480 V	
272	12	5.820 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	90.00MV		260.0MV
352	4	64.00MV		260.0MV
358	6	64.00MV		260.0MV
364	8	82.00MV		260.0MV
370	10	86.00MV		260.0MV
376	12	68.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		760.4E-03	250.0E-03	1.650
3	586		840.4E-03	250.0E-03	1.650
5	586		920.4E-03	250.0E-03	1.650
9	586		1.000	250.0E-03	1.650
11	586		1.080	250.0E-03	1.650
13	586		1.160	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
   698   14  2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
    0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 8

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-780.0MV	-1.500 V	-100.0MV
57	3	-780.0MV	-1.500 V	-100.0MV
57	5	-780.0MV	-1.500 V	-100.0MV
57	9	-790.0MV	-1.500 V	-100.0MV
57	11	-790.0MV	-1.500 V	-100.0MV
57	13	-790.0MV	-1.500 V	-100.0MV
57	14	-680.0MV	-1.500 V	-100.0MV
67	2	710.0MV	100.0MV	1.500 V
67	4	710.0MV	100.0MV	1.500 V
67	6	710.0MV	100.0MV	1.500 V
67	8	710.0MV	100.0MV	1.500 V
67	10	710.0MV	100.0MV	1.500 V
67	12	710.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.980 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.840 V	2.480 V	
248	4	2.850 V	2.480 V	
254	6	2.850 V	2.480 V	
260	8	2.850 V	2.480 V	
266	10	2.840 V	2.480 V	
272	12	2.850 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	62.00MV		260.0MV
352	4	52.00MV		260.0MV
358	6	50.00MV		260.0MV
364	8	56.00MV		260.0MV
370	10	60.00MV		260.0MV
376	12	52.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.290 V	3.980 V
248	4	4.310 V	3.980 V
254	6	4.310 V	3.980 V
260	8	4.300 V	3.980 V
266	10	4.300 V	3.980 V
272	12	4.310 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	76.00MV		260.0MV
352	4	58.00MV		260.0MV
358	6	58.00MV		260.0MV
364	8	66.00MV		260.0MV
370	10	76.00MV		260.0MV
376	12	60.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.800 V	5.480 V	
248	4	5.820 V	5.480 V	
254	6	5.820 V	5.480 V	
260	8	5.820 V	5.480 V	
266	10	5.800 V	5.480 V	
272	12	5.820 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	86.00MV		260.0MV
352	4	62.00MV		260.0MV
358	6	62.00MV		260.0MV
364	8	72.00MV		260.0MV
370	10	84.00MV		260.0MV
376	12	64.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.400	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 1.000 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.940 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		800.4E-03	250.0E-03	1.650
3	586		880.4E-03	250.0E-03	1.650
5	586		960.4E-03	250.0E-03	1.650
9	586		1.040	250.0E-03	1.650
11	586		1.120	250.0E-03	1.650
13	586		1.200	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.941	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.861    1.200    2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.099    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.179    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.259    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.339    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.419    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.499    500.0E-03    3

```

```

-----
IIN TEST
VCC=      6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
ICC TEST
VCC=      6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
   698   14  3.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
    0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 9

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-750.0MV	-1.500 V	-100.0MV
57	3	-750.0MV	-1.500 V	-100.0MV
57	5	-750.0MV	-1.500 V	-100.0MV
57	9	-750.0MV	-1.500 V	-100.0MV
57	11	-750.0MV	-1.500 V	-100.0MV
57	13	-760.0MV	-1.500 V	-100.0MV
57	14	-640.0MV	-1.500 V	-100.0MV
67	2	680.0MV	100.0MV	1.500 V
67	4	680.0MV	100.0MV	1.500 V
67	6	670.0MV	100.0MV	1.500 V
67	8	680.0MV	100.0MV	1.500 V
67	10	680.0MV	100.0MV	1.500 V
67	12	680.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.980 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.980 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.830 V	2.480 V	
248	4	2.840 V	2.480 V	
254	6	2.850 V	2.480 V	
260	8	2.840 V	2.480 V	
266	10	2.830 V	2.480 V	
272	12	2.840 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	66.00MV		260.0MV
352	4	54.00MV		260.0MV
358	6	54.00MV		260.0MV
364	8	58.00MV		260.0MV
370	10	66.00MV		260.0MV
376	12	54.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.280 V	3.980 V
248	4	4.300 V	3.980 V
254	6	4.300 V	3.980 V
260	8	4.290 V	3.980 V
266	10	4.290 V	3.980 V
272	12	4.300 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	82.00MV		260.0MV
352	4	64.00MV		260.0MV
358	6	62.00MV		260.0MV
364	8	70.00MV		260.0MV
370	10	82.00MV		260.0MV
376	12	66.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.790 V	5.480 V	
248	4	5.810 V	5.480 V	
254	6	5.820 V	5.480 V	
260	8	5.800 V	5.480 V	
266	10	5.790 V	5.480 V	
272	12	5.820 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	90.00MV		260.0MV
352	4	66.00MV		260.0MV
358	6	66.00MV		260.0MV
364	8	74.00MV		260.0MV
370	10	88.00MV		260.0MV
376	12	68.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.061	1.200	2.600
					3
	567		2.021	1.200	2.600
					5
	567		1.981	1.200	2.600
					9
	567		1.941	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.861      1.200      2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.099      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.179      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.259      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.339      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.419      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.499      500.0E-03      3

```

```

-----
IIN TEST
VCC=      6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA  -100.0NA  100.0NA
   622      1  2.000NA  -100.0NA  100.0NA
   627      3  -4.000NA  -100.0NA  100.0NA
   630      3  2.000NA  -100.0NA  100.0NA
   635      5  -4.000NA  -100.0NA  100.0NA
   638      5  2.000NA  -100.0NA  100.0NA
   643      9  -4.000NA  -100.0NA  100.0NA
   646      9  2.000NA  -100.0NA  100.0NA
   651     11  -4.000NA  -100.0NA  100.0NA
   654     11  1.000NA  -100.0NA  100.0NA
   659     13  -4.000NA  -100.0NA  100.0NA
   662     13  2.000NA  -100.0NA  100.0NA

```

```

-----
ICC TEST
VCC=      6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14  5.000NA      1.000UA
   698     14  2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
    0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 10

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-740.0MV	-1.500 V	-100.0MV
57	3	-740.0MV	-1.500 V	-100.0MV
57	5	-740.0MV	-1.500 V	-100.0MV
57	9	-740.0MV	-1.500 V	-100.0MV
57	11	-740.0MV	-1.500 V	-100.0MV
57	13	-740.0MV	-1.500 V	-100.0MV
57	14	-620.0MV	-1.500 V	-100.0MV
67	2	660.0MV	100.0MV	1.500 V
67	4	660.0MV	100.0MV	1.500 V
67	6	660.0MV	100.0MV	1.500 V
67	8	660.0MV	100.0MV	1.500 V
67	10	660.0MV	100.0MV	1.500 V
67	12	660.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.980 V	1.900 V	
207	8	1.980 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.820 V	2.480 V	
248	4	2.830 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.830 V	2.480 V	
266	10	2.820 V	2.480 V	
272	12	2.830 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	72.00MV		260.0MV
352	4	60.00MV		260.0MV
358	6	62.00MV		260.0MV
364	8	64.00MV		260.0MV
370	10	72.00MV		260.0MV
376	12	62.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.460 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.270 V	3.980 V
248	4	4.290 V	3.980 V
254	6	4.290 V	3.980 V
260	8	4.280 V	3.980 V
266	10	4.270 V	3.980 V
272	12	4.290 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	90.00MV		260.0MV
352	4	70.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	78.00MV		260.0MV
370	10	88.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.780 V	5.480 V	
248	4	5.800 V	5.480 V	
254	6	5.810 V	5.480 V	
260	8	5.800 V	5.480 V	
266	10	5.780 V	5.480 V	
272	12	5.800 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	98.00MV		260.0MV
352	4	72.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	80.00MV		260.0MV
370	10	98.00MV		260.0MV
376	12	76.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.400	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 1.000 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.940 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		800.4E-03	250.0E-03	1.650
3	586		880.4E-03	250.0E-03	1.650
5	586		960.4E-03	250.0E-03	1.650
9	586		1.040	250.0E-03	1.650
11	586		1.120	250.0E-03	1.650
13	586		1.200	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
IIN TEST
VCC=      6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1   2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3   2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5   2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9   2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11   2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13   1.000NA    -100.0NA    100.0NA

```

```

-----
ICC TEST
VCC=      6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14   5.000NA      1.000UA
   698   14   1.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
    0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 11

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-1.220 V	-1.500 V	-100.0MV
57	3	-730.0MV	-1.500 V	-100.0MV
57	5	-730.0MV	-1.500 V	-100.0MV
57	9	-730.0MV	-1.500 V	-100.0MV
57	11	-730.0MV	-1.500 V	-100.0MV
57	13	-730.0MV	-1.500 V	-100.0MV
57	14	-620.0MV	-1.500 V	-100.0MV
67	2	660.0MV	100.0MV	1.500 V
67	4	650.0MV	100.0MV	1.500 V
67	6	660.0MV	100.0MV	1.500 V
67	8	650.0MV	100.0MV	1.500 V
67	10	660.0MV	100.0MV	1.500 V
67	12	650.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.980 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.820 V	2.480 V	
248	4	2.830 V	2.480 V	
254	6	2.830 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.820 V	2.480 V	
272	12	2.830 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	72.00MV		260.0MV
352	4	60.00MV		260.0MV
358	6	60.00MV		260.0MV
364	8	78.00MV		260.0MV
370	10	70.00MV		260.0MV
376	12	62.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.460 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.270 V	3.980 V
248	4	4.290 V	3.980 V
254	6	4.290 V	3.980 V
260	8	4.260 V	3.980 V
266	10	4.270 V	3.980 V
272	12	4.290 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	88.00MV		260.0MV
352	4	68.00MV		260.0MV
358	6	68.00MV		260.0MV
364	8	102.0MV		260.0MV
370	10	88.00MV		260.0MV
376	12	70.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.780 V	5.480 V	
248	4	5.810 V	5.480 V	
254	6	5.810 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.780 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	98.00MV		260.0MV
352	4	70.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	112.0MV		260.0MV
370	10	94.00MV		260.0MV
376	12	76.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 739.9E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		760.4E-03	250.0E-03	1.650
3	586		840.4E-03	250.0E-03	1.650
5	586		920.4E-03	250.0E-03	1.650
9	586		1.000	250.0E-03	1.650
11	586		1.080	250.0E-03	1.650
13	586		1.160	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		919.7E-03	400.0E-03	2.250
					3
	586		999.7E-03	400.0E-03	2.250
					5
	586		1.080	400.0E-03	2.250
					9
	586		1.160	400.0E-03	2.250
					11
	586		1.240	400.0E-03	2.250
					13
	586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC= 6
MIN= 500.0E-03
MAX= 3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1   2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3   2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5   2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9   2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11   2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13   2.000NA    -100.0NA    100.0NA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14   5.000NA      1.000UA
   698   14   2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 12

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-760.0MV	-1.500 V	-100.0MV
57	3	-760.0MV	-1.500 V	-100.0MV
57	5	-760.0MV	-1.500 V	-100.0MV
57	9	-760.0MV	-1.500 V	-100.0MV
57	11	-760.0MV	-1.500 V	-100.0MV
57	13	-760.0MV	-1.500 V	-100.0MV
57	14	-650.0MV	-1.500 V	-100.0MV
67	2	680.0MV	100.0MV	1.500 V
67	4	680.0MV	100.0MV	1.500 V
67	6	680.0MV	100.0MV	1.500 V
67	8	680.0MV	100.0MV	1.500 V
67	10	680.0MV	100.0MV	1.500 V
67	12	680.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.980 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.980 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.830 V	2.480 V	
248	4	2.840 V	2.480 V	
254	6	2.840 V	2.480 V	
260	8	2.840 V	2.480 V	
266	10	2.830 V	2.480 V	
272	12	2.840 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	68.00MV		260.0MV
352	4	54.00MV		260.0MV
358	6	54.00MV		260.0MV
364	8	56.00MV		260.0MV
370	10	64.00MV		260.0MV
376	12	56.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.280 V	3.980 V
248	4	4.300 V	3.980 V
254	6	4.300 V	3.980 V
260	8	4.290 V	3.980 V
266	10	4.280 V	3.980 V
272	12	4.300 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	84.00MV		260.0MV
352	4	64.00MV		260.0MV
358	6	62.00MV		260.0MV
364	8	68.00MV		260.0MV
370	10	80.00MV		260.0MV
376	12	66.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.790 V	5.480 V	
248	4	5.820 V	5.480 V	
254	6	5.820 V	5.480 V	
260	8	5.800 V	5.480 V	
266	10	5.790 V	5.480 V	
272	12	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	92.00MV		260.0MV
352	4	64.00MV		260.0MV
358	6	66.00MV		260.0MV
364	8	76.00MV		260.0MV
370	10	90.00MV		260.0MV
376	12	68.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -48.00NA    -100.0NA    100.0NA
   662   13  45.00NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  52.00NA    1.000UA
   698   14  2.000NA    1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```



MIL-PRF-38534 CLASS K DATAPACK

Post Burn-In Test Results at 25°C



STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 1

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-670.0MV	-1.500 V	-100.0MV
57	3	-670.0MV	-1.500 V	-100.0MV
57	5	-660.0MV	-1.500 V	-100.0MV
57	9	-670.0MV	-1.500 V	-100.0MV
57	11	-660.0MV	-1.500 V	-100.0MV
57	13	-670.0MV	-1.500 V	-100.0MV
57	14	-540.0MV	-1.500 V	-100.0MV
67	2	580.0MV	100.0MV	1.500 V
67	4	580.0MV	100.0MV	1.500 V
67	6	590.0MV	100.0MV	1.500 V
67	8	580.0MV	100.0MV	1.500 V
67	10	580.0MV	100.0MV	1.500 V
67	12	580.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.980 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
189	2	2.970 V	2.900 V	
195	4	2.980 V	2.900 V	
201	6	2.970 V	2.900 V	

207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	82.00MV		260.0MV
352	4	72.00MV		260.0MV
358	6	72.00MV		260.0MV
364	8	78.00MV		260.0MV
370	10	82.00MV		260.0MV
376	12	74.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
242	2	4.240 V	3.980 V	
248	4	4.270 V	3.980 V	
254	6	4.260 V	3.980 V	

260	8	4.250 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.270 V	3.980 V

 VOL1 TEST
 VCC= 4.500
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

 VOL2 TEST
 VCC= 4.500
 VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		260.0MV
352	4	84.00MV		260.0MV
358	6	84.00MV		260.0MV
364	8	92.00MV		260.0MV
370	10	102.0MV		260.0MV
376	12	88.00MV		260.0MV

 FUNCTIONAL TEST
 VCC= 6
 VIH= 4.200 VIL= 1.200

 VOH1 TEST
 VCC= 6
 VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

 VOH2 TEST
 VCC= 6
 VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.750 V	5.480 V	
248	4	5.770 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

 VOL1 TEST
 VCC= 6
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV

311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	114.0MV		260.0MV
352	4	88.000MV		260.0MV
358	6	88.000MV		260.0MV
364	8	100.0MV		260.0MV
370	10	110.0MV		260.0MV
376	12	92.000MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	1	1.500
3	519		1.200	1	1.500
5	519		1.240	1	1.500
9	519		1.280	1	1.500
11	519		1.320	1	1.500
13	519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		600.0E-03	300.0E-03	900.0E-03
3	567		560.0E-03	300.0E-03	900.0E-03
5	567		520.0E-03	300.0E-03	900.0E-03
9	567		480.0E-03	300.0E-03	900.0E-03
11	567		440.0E-03	300.0E-03	900.0E-03
13	567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)
VCC= 2
MIN= 200.0E-03
MAX= 1.200

```

-----
INPUT PIN IS      1
INST # PIN  MEASURED      LT      GT
  586      560.0E-03    200.0E-03    1.200
INPUT PIN IS      3
INST # PIN  MEASURED      LT      GT
  586      640.0E-03    200.0E-03    1.200
INPUT PIN IS      5
INST # PIN  MEASURED      LT      GT
  586      720.0E-03    200.0E-03    1.200
INPUT PIN IS      9
INST # PIN  MEASURED      LT      GT
  586      800.0E-03    200.0E-03    1.200
INPUT PIN IS     11
INST # PIN  MEASURED      LT      GT
  586      880.0E-03    200.0E-03    1.200
INPUT PIN IS     13
INST # PIN  MEASURED      LT      GT
  586      960.0E-03    200.0E-03    1.200

```

```

-----
VTP TEST (VT+)
VCC=      3
MIN=    1.500
MAX=    2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST # PIN  MEASURED      LT      GT
  519      1.700          1.500      2.150
INPUT PIN IS      3
INST # PIN  MEASURED      LT      GT
  519      1.740          1.500      2.150
INPUT PIN IS      5
INST # PIN  MEASURED      LT      GT
  519      1.780          1.500      2.150
INPUT PIN IS      9
INST # PIN  MEASURED      LT      GT
  519      1.820          1.500      2.150
INPUT PIN IS     11
INST # PIN  MEASURED      LT      GT
  519      1.860          1.500      2.150
INPUT PIN IS     13
INST # PIN  MEASURED      LT      GT
  519      1.900          1.500      2.150

```

```

-----
VTN TEST (VT-)
VCC=      3
MIN=    500.0E-03
MAX=    1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST # PIN  MEASURED      LT      GT
  567      979.8E-03    500.0E-03    1.450
INPUT PIN IS      3
INST # PIN  MEASURED      LT      GT
  567      939.8E-03    500.0E-03    1.450
INPUT PIN IS      5
INST # PIN  MEASURED      LT      GT
  567      899.8E-03    500.0E-03    1.450
INPUT PIN IS      9
INST # PIN  MEASURED      LT      GT
  567      859.8E-03    500.0E-03    1.450
INPUT PIN IS     11
INST # PIN  MEASURED      LT      GT
  567      819.8E-03    500.0E-03    1.450
INPUT PIN IS     13
INST # PIN  MEASURED      LT      GT
  567      779.8E-03    500.0E-03    1.450

```

```

-----
VH TEST (HYSTERESIS)
-----

```

VCC= 3
MIN= 250.0E-03
MAX= 1.650

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 720.4E-03 250.0E-03 1.650
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 800.4E-03 250.0E-03 1.650
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 880.4E-03 250.0E-03 1.650
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 960.4E-03 250.0E-03 1.650
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 1.040 250.0E-03 1.650
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 1.120 250.0E-03 1.650

VTP TEST (VT+)
VCC= 4.500
MIN= 2.300
MAX= 3.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 2.400 2.300 3.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 2.440 2.300 3.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 2.480 2.300 3.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 2.520 2.300 3.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 2.560 2.300 3.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 2.600 2.300 3.150

VTN TEST (VT-)
VCC= 4.500
MIN= 900.0E-03
MAX= 2
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.520 900.0E-03 2
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 1.480 900.0E-03 2
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 1.440 900.0E-03 2
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 1.400 900.0E-03 2
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 1.360 900.0E-03 2
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 1.320 900.0E-03 2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		879.7E-03	400.0E-03	2.250
3	586		959.7E-03	400.0E-03	2.250
5	586		1.040	400.0E-03	2.250
9	586		1.120	400.0E-03	2.250
11	586		1.200	400.0E-03	2.250
13	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		3.120	3	4.200
3	519		3.160	3	4.200
5	519		3.200	3	4.200
9	519		3.240	3	4.200
11	519		3.280	3	4.200
13	519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		2.101	1.200	2.600
3	567		2.061	1.200	2.600
5	567		2.021	1.200	2.600
9	567		1.981	1.200	2.600
11	567		1.941	1.200	2.600

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.901	1.200	2.600

 VH TEST (HYSTERESIS)
 VCC= 6
 MIN= 500.0E-03
 MAX= 3

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		1.019	500.0E-03	3
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		1.099	500.0E-03	3
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.179	500.0E-03	3
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.259	500.0E-03	3
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.339	500.0E-03	3
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.419	500.0E-03	3

 IIN TEST
 VCC= 6
 IIL/IIH LIMIT +- 0.1UA @25C/-55C
 IIL/IIH LIMIT +- 1.0UA @+125C

INST #	PIN	MEASURED	LT	GT
619	1	-3.000NA	-100.0NA	100.0NA
622	1	2.000NA	-100.0NA	100.0NA
627	3	-4.000NA	-100.0NA	100.0NA
630	3	2.000NA	-100.0NA	100.0NA
635	5	-4.000NA	-100.0NA	100.0NA
638	5	2.000NA	-100.0NA	100.0NA
643	9	-4.000NA	-100.0NA	100.0NA
646	9	2.000NA	-100.0NA	100.0NA
651	11	-4.000NA	-100.0NA	100.0NA
654	11	1.000NA	-100.0NA	100.0NA
659	13	-4.000NA	-100.0NA	100.0NA
662	13	2.000NA	-100.0NA	100.0NA

 ICC TEST
 VCC= 6
 ICC LIMIT MAX. 1.0UA @25C/-55C
 ICC LIMIT MAX. 40UA @+125C

INST #	PIN	MEASURED	LT	GT
691	14	5.000NA		1.000UA
698	14	2.000NA		1.000UA

EIR 1.....10 FCT DCT
 0000000000 PASS PASS EOT

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 2

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.810 V	2.480 V	
248	4	2.820 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.820 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	80.00MV		260.0MV
352	4	68.00MV		260.0MV
358	6	68.00MV		260.0MV
364	8	74.00MV		260.0MV
370	10	80.00MV		260.0MV
376	12	70.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.250 V	3.980 V
248	4	4.270 V	3.980 V
254	6	4.280 V	3.980 V
260	8	4.260 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	102.0MV		260.0MV
352	4	80.00MV		260.0MV
358	6	80.00MV		260.0MV
364	8	90.00MV		260.0MV
370	10	102.0MV		260.0MV
376	12	84.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.760 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.770 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	112.0MV		260.0MV
352	4	84.00MV		260.0MV
358	6	84.00MV		260.0MV
364	8	98.00MV		260.0MV
370	10	114.0MV		260.0MV
376	12	90.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.120	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.019    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.099    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.179    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.259    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.339    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.419    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
   698   14  2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 3

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.810 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	86.00MV		260.0MV
352	4	74.00MV		260.0MV
358	6	74.00MV		260.0MV
364	8	80.00MV		260.0MV
370	10	82.00MV		260.0MV
376	12	78.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.240 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.260 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.260 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	108.0MV		260.0MV
352	4	88.00MV		260.0MV
358	6	88.00MV		260.0MV
364	8	96.00MV		260.0MV
370	10	100.0MV		260.0MV
376	12	90.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.740 V	5.480 V	
248	4	5.770 V	5.480 V	
254	6	5.770 V	5.480 V	
260	8	5.750 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.770 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	118.0MV		260.0MV
352	4	90.00MV		260.0MV
358	6	90.00MV		260.0MV
364	8	104.0MV		260.0MV
370	10	108.0MV		260.0MV
376	12	96.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
   698   14  2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 4

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.810 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	88.00MV		260.0MV
352	4	76.00MV		260.0MV
358	6	76.00MV		260.0MV
364	8	82.00MV		260.0MV
370	10	84.00MV		260.0MV
376	12	78.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.240 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.260 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.260 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	110.0MV		260.0MV
352	4	88.00MV		260.0MV
358	6	88.00MV		260.0MV
364	8	98.00MV		260.0MV
370	10	102.0MV		260.0MV
376	12	94.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.750 V	5.480 V	
248	4	5.770 V	5.480 V	
254	6	5.770 V	5.480 V	
260	8	5.750 V	5.480 V	
266	10	5.750 V	5.480 V	
272	12	5.770 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	122.0MV		260.0MV
352	4	92.00MV		260.0MV
358	6	94.00MV		260.0MV
364	8	104.0MV		260.0MV
370	10	110.0MV		260.0MV
376	12	96.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

VH TEST (HYSTERESIS)
VCC= 4.500
MIN= 400.0E-03
MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		919.7E-03	400.0E-03	2.250
					3
	586		999.7E-03	400.0E-03	2.250
					5
	586		1.080	400.0E-03	2.250
					9
	586		1.160	400.0E-03	2.250
					11
	586		1.240	400.0E-03	2.250
					13
	586		1.320	400.0E-03	2.250

VTP TEST (VT+)
VCC= 6
MIN= 3
MAX= 4.200
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

VTN TEST (VT-)
VCC= 6
MIN= 1.200
MAX= 2.600
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  1.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9  1.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13  1.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
   698   14  2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 5

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.980 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.810 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	86.00MV		260.0MV
352	4	72.00MV		260.0MV
358	6	72.00MV		260.0MV
364	8	78.00MV		260.0MV
370	10	80.00MV		260.0MV
376	12	76.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.240 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.260 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.260 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	108.0MV		260.0MV
352	4	86.00MV		260.0MV
358	6	84.00MV		260.0MV
364	8	94.00MV		260.0MV
370	10	100.0MV		260.0MV
376	12	90.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.750 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.770 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	116.0MV		260.0MV
352	4	90.00MV		260.0MV
358	6	88.00MV		260.0MV
364	8	102.0MV		260.0MV
370	10	110.0MV		260.0MV
376	12	94.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

VH TEST (HYSTERESIS)
VCC= 4.500
MIN= 400.0E-03
MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

VTP TEST (VT+)
VCC= 6
MIN= 3
MAX= 4.200
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

VTN TEST (VT-)
VCC= 6
MIN= 1.200
MAX= 2.600
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
IIN TEST
VCC=      6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA  -100.0NA  100.0NA
   622      1  2.000NA  -100.0NA  100.0NA
   627      3  -4.000NA  -100.0NA  100.0NA
   630      3  2.000NA  -100.0NA  100.0NA
   635      5  -4.000NA  -100.0NA  100.0NA
   638      5  2.000NA  -100.0NA  100.0NA
   643      9  -4.000NA  -100.0NA  100.0NA
   646      9  1.000NA  -100.0NA  100.0NA
   651     11  -4.000NA  -100.0NA  100.0NA
   654     11  2.000NA  -100.0NA  100.0NA
   659     13  -4.000NA  -100.0NA  100.0NA
   662     13  1.000NA  -100.0NA  100.0NA

```

```

-----
ICC TEST
VCC=      6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14  5.000NA      1.000UA
   698     14  2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
    0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 6

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	590.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.980 V	1.900 V	
219	12	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.820 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.820 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	84.00MV		260.0MV
352	4	70.00MV		260.0MV
358	6	68.00MV		260.0MV
364	8	74.00MV		260.0MV
370	10	78.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.250 V	3.980 V
248	4	4.270 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.260 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	106.0MV		260.0MV
352	4	82.00MV		260.0MV
358	6	82.00MV		260.0MV
364	8	90.00MV		260.0MV
370	10	96.00MV		260.0MV
376	12	86.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.750 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.770 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	116.0MV		260.0MV
352	4	86.00MV		260.0MV
358	6	88.00MV		260.0MV
364	8	98.00MV		260.0MV
370	10	106.0MV		260.0MV
376	12	90.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13  1.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
   698   14  2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 7

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	590.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.810 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.820 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	80.00MV		260.0MV
352	4	68.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	76.00MV		260.0MV
370	10	80.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.250 V	3.980 V
248	4	4.270 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	102.0MV		260.0MV
352	4	82.00MV		260.0MV
358	6	82.00MV		260.0MV
364	8	90.00MV		260.0MV
370	10	98.00MV		260.0MV
376	12	86.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.760 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	112.0MV		260.0MV
352	4	86.00MV		260.0MV
358	6	86.00MV		260.0MV
364	8	98.00MV		260.0MV
370	10	108.0MV		260.0MV
376	12	92.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA     -100.0NA     100.0NA
   622      1  2.000NA     -100.0NA     100.0NA
   627      3  -4.000NA     -100.0NA     100.0NA
   630      3  2.000NA     -100.0NA     100.0NA
   635      5  -4.000NA     -100.0NA     100.0NA
   638      5  2.000NA     -100.0NA     100.0NA
   643      9  -4.000NA     -100.0NA     100.0NA
   646      9  2.000NA     -100.0NA     100.0NA
   651     11  -4.000NA     -100.0NA     100.0NA
   654     11  1.000NA     -100.0NA     100.0NA
   659     13  -4.000NA     -100.0NA     100.0NA
   662     13  2.000NA     -100.0NA     100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14  5.000NA      1.000UA
   698     14  2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 8

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.980 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.810 V	2.480 V	
248	4	2.820 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.810 V	2.480 V	
272	12	2.820 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-10.00MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	82.00MV		260.0MV
352	4	68.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	74.00MV		260.0MV
370	10	78.00MV		260.0MV
376	12	70.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.250 V	3.980 V
248	4	4.270 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.260 V	3.980 V
266	10	4.260 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	102.0MV		260.0MV
352	4	80.00MV		260.0MV
358	6	82.00MV		260.0MV
364	8	90.00MV		260.0MV
370	10	98.00MV		260.0MV
376	12	84.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.760 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.770 V	5.480 V	
266	10	5.770 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	114.0MV		260.0MV
352	4	86.00MV		260.0MV
358	6	86.00MV		260.0MV
364	8	98.00MV		260.0MV
370	10	106.0MV		260.0MV
376	12	90.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.120	3	4.200
					3
	519		3.160	3	4.200
					5
	519		3.200	3	4.200
					9
	519		3.240	3	4.200
					11
	519		3.280	3	4.200
					13
	519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.019    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.099    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.179    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.259    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.339    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.419    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
   698   14  3.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 9

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	590.0MV	100.0MV	1.500 V
67	6	590.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.980 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.810 V	2.480 V	
248	4	2.820 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.820 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	82.00MV		260.0MV
352	4	70.00MV		260.0MV
358	6	68.00MV		260.0MV
364	8	74.00MV		260.0MV
370	10	80.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
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242	2	4.250 V	3.980 V
248	4	4.270 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.250 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	102.0MV		260.0MV
352	4	82.00MV		260.0MV
358	6	82.00MV		260.0MV
364	8	92.00MV		260.0MV
370	10	98.00MV		260.0MV
376	12	86.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.760 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
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293	2	-6.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	112.0MV		260.0MV
352	4	86.00MV		260.0MV
358	6	86.00MV		260.0MV
364	8	100.0MV		260.0MV
370	10	106.0MV		260.0MV
376	12	92.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	1	1.500
3	519		1.200	1	1.500
5	519		1.240	1	1.500
9	519		1.280	1	1.500
11	519		1.320	1	1.500
13	519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		640.0E-03	300.0E-03	900.0E-03
3	567		600.0E-03	300.0E-03	900.0E-03
5	567		560.0E-03	300.0E-03	900.0E-03
9	567		520.0E-03	300.0E-03	900.0E-03
11	567		480.0E-03	300.0E-03	900.0E-03
13	567		440.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.120	3	4.200
					3
	519		3.160	3	4.200
					5
	519		3.200	3	4.200
					9
	519		3.240	3	4.200
					11
	519		3.280	3	4.200
					13
	519		3.320	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.019      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.099      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.179      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.259      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.339      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.419      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA     -100.0NA     100.0NA
   622      1   2.000NA     -100.0NA     100.0NA
   627      3  -4.000NA     -100.0NA     100.0NA
   630      3   2.000NA     -100.0NA     100.0NA
   635      5  -4.000NA     -100.0NA     100.0NA
   638      5   2.000NA     -100.0NA     100.0NA
   643      9  -4.000NA     -100.0NA     100.0NA
   646      9   2.000NA     -100.0NA     100.0NA
   651     11  -4.000NA     -100.0NA     100.0NA
   654     11   2.000NA     -100.0NA     100.0NA
   659     13  -4.000NA     -100.0NA     100.0NA
   662     13   2.000NA     -100.0NA     100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14   5.000NA      1.000UA
   698     14   2.000NA      1.000UA

```

```

EIR 1.....10      FCT      DCT
      0000000000      PASS      PASS      EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 10

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	590.0MV	100.0MV	1.500 V
67	12	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.980 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
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189	2	2.980 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.790 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.810 V	2.480 V	
260	8	2.800 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-10.00MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-10.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	86.00MV		260.0MV
352	4	74.00MV		260.0MV
358	6	74.00MV		260.0MV
364	8	82.00MV		260.0MV
370	10	84.00MV		260.0MV
376	12	78.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
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242	2	4.240 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.260 V	3.980 V
260	8	4.240 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.260 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	106.0MV		260.0MV
352	4	86.00MV		260.0MV
358	6	88.00MV		260.0MV
364	8	100.0MV		260.0MV
370	10	104.0MV		260.0MV
376	12	90.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.750 V	5.480 V	
248	4	5.770 V	5.480 V	
254	6	5.770 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.770 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	116.0MV		260.0MV
352	4	90.00MV		260.0MV
358	6	90.00MV		260.0MV
364	8	106.0MV		260.0MV
370	10	112.0MV		260.0MV
376	12	96.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.300	3.150
3	519		2.480	2.300	3.150
5	519		2.520	2.300	3.150
9	519		2.560	2.300	3.150
11	519		2.600	2.300	3.150
13	519		2.640	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		919.7E-03	400.0E-03	2.250
					3
	586		999.7E-03	400.0E-03	2.250
					5
	586		1.080	400.0E-03	2.250
					9
	586		1.160	400.0E-03	2.250
					11
	586		1.240	400.0E-03	2.250
					13
	586		1.320	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9  1.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
   698   14  2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
      0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 11

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-670.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	590.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	590.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.810 V	2.480 V	
254	6	2.820 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-10.00MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	84.00MV		260.0MV
352	4	72.00MV		260.0MV
358	6	72.00MV		260.0MV
364	8	76.00MV		260.0MV
370	10	82.00MV		260.0MV
376	12	74.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.250 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.260 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.270 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		260.0MV
352	4	84.00MV		260.0MV
358	6	84.00MV		260.0MV
364	8	94.00MV		260.0MV
370	10	100.0MV		260.0MV
376	12	88.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.750 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.770 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-8.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	114.0MV		260.0MV
352	4	86.00MV		260.0MV
358	6	88.00MV		260.0MV
364	8	100.0MV		260.0MV
370	10	110.0MV		260.0MV
376	12	94.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		400.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 560.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 640.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 720.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 800.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 880.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 960.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.520	900.0E-03	2
3	567		1.480	900.0E-03	2
5	567		1.440	900.0E-03	2
9	567		1.400	900.0E-03	2
11	567		1.360	900.0E-03	2

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					13
	567		1.320	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	586		879.7E-03	400.0E-03	2.250
					3
	586		959.7E-03	400.0E-03	2.250
					5
	586		1.040	400.0E-03	2.250
					9
	586		1.120	400.0E-03	2.250
					11
	586		1.200	400.0E-03	2.250
					13
	586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	519		3.160	3	4.200
					3
	519		3.200	3	4.200
					5
	519		3.240	3	4.200
					9
	519		3.280	3	4.200
					11
	519		3.320	3	4.200
					13
	519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
					1
	567		2.101	1.200	2.600
					3
	567		2.061	1.200	2.600
					5
	567		2.021	1.200	2.600
					9
	567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.600

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
IIN TEST
VCC=      6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -3.000NA    -100.0NA    100.0NA
   622    1  2.000NA    -100.0NA    100.0NA
   627    3  -4.000NA    -100.0NA    100.0NA
   630    3  2.000NA    -100.0NA    100.0NA
   635    5  -4.000NA    -100.0NA    100.0NA
   638    5  2.000NA    -100.0NA    100.0NA
   643    9  -4.000NA    -100.0NA    100.0NA
   646    9  2.000NA    -100.0NA    100.0NA
   651   11  -4.000NA    -100.0NA    100.0NA
   654   11  2.000NA    -100.0NA    100.0NA
   659   13  -4.000NA    -100.0NA    100.0NA
   662   13  2.000NA    -100.0NA    100.0NA

```

```

-----
ICC TEST
VCC=      6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14  5.000NA      1.000UA
   698   14  2.000NA      1.000UA

```

```

EIR 1.....10    FCT    DCT
    0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 12

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-680.0MV	-1.500 V	-100.0MV
57	3	-680.0MV	-1.500 V	-100.0MV
57	5	-680.0MV	-1.500 V	-100.0MV
57	9	-680.0MV	-1.500 V	-100.0MV
57	11	-680.0MV	-1.500 V	-100.0MV
57	13	-680.0MV	-1.500 V	-100.0MV
57	14	-550.0MV	-1.500 V	-100.0MV
67	2	600.0MV	100.0MV	1.500 V
67	4	600.0MV	100.0MV	1.500 V
67	6	600.0MV	100.0MV	1.500 V
67	8	600.0MV	100.0MV	1.500 V
67	10	600.0MV	100.0MV	1.500 V
67	12	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
242	2	2.800 V	2.480 V	
248	4	2.820 V	2.480 V	
254	6	2.810 V	2.480 V	
260	8	2.810 V	2.480 V	
266	10	2.800 V	2.480 V	
272	12	2.810 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-10.00MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	82.00MV		260.0MV
352	4	70.00MV		260.0MV
358	6	70.00MV		260.0MV
364	8	76.00MV		260.0MV
370	10	82.00MV		260.0MV
376	12	72.00MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.240 V	3.980 V
248	4	4.260 V	3.980 V
254	6	4.270 V	3.980 V
260	8	4.260 V	3.980 V
266	10	4.250 V	3.980 V
272	12	4.260 V	3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		260.0MV
352	4	82.00MV		260.0MV
358	6	82.00MV		260.0MV
364	8	92.00MV		260.0MV
370	10	100.0MV		260.0MV
376	12	88.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
242	2	5.750 V	5.480 V	
248	4	5.780 V	5.480 V	
254	6	5.780 V	5.480 V	
260	8	5.760 V	5.480 V	
266	10	5.760 V	5.480 V	
272	12	5.780 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-8.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-8.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	114.0MV		260.0MV
352	4	88.00MV		260.0MV
358	6	86.00MV		260.0MV
364	8	100.0MV		260.0MV
370	10	108.0MV		260.0MV
376	12	92.00MV		260.0MV

VTP TEST (VT+)
VCC= 2
MIN= 1
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	1	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	1	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	1	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	1	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	1	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	1	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 900.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	900.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	900.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.500
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.500 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.500 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.500 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.500 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.500 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.500 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		720.4E-03	250.0E-03	1.650
3	586		800.4E-03	250.0E-03	1.650
5	586		880.4E-03	250.0E-03	1.650
9	586		960.4E-03	250.0E-03	1.650
11	586		1.040	250.0E-03	1.650
13	586		1.120	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.300
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.300	3.150
3	519		2.440	2.300	3.150
5	519		2.480	2.300	3.150
9	519		2.520	2.300	3.150
11	519		2.560	2.300	3.150
13	519		2.600	2.300	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2
3	567		1.520	900.0E-03	2
5	567		1.480	900.0E-03	2
9	567		1.440	900.0E-03	2
11	567		1.400	900.0E-03	2

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 3
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	3	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	3	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	3	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	3	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	3	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	3	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.600
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.600
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.600
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.600
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.600

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.600
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.901      1.200      2.600

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -3.000NA      -100.0NA      100.0NA
   622      1  2.000NA      -100.0NA      100.0NA
   627      3  -4.000NA      -100.0NA      100.0NA
   630      3  2.000NA      -100.0NA      100.0NA
   635      5  -4.000NA      -100.0NA      100.0NA
   638      5  2.000NA      -100.0NA      100.0NA
   643      9  -4.000NA      -100.0NA      100.0NA
   646      9  2.000NA      -100.0NA      100.0NA
   651     11  -4.000NA      -100.0NA      100.0NA
   654     11  2.000NA      -100.0NA      100.0NA
   659     13  -4.000NA      -100.0NA      100.0NA
   662     13  2.000NA      -100.0NA      100.0NA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14  5.000NA      1.000UA
   698     14  2.000NA      1.000UA

```

```

EIR 1.....10      FCT      DCT
      0000000000      PASS      PASS      EOT

```



MIL-PRF-38534 CLASS K DATAPACK

Post Burn-In Test Results at +125°C



STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 1

DDS-101-06-A PN 54HC14 TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-620.0MV	-1.500 V	-100.0MV
57	3	-620.0MV	-1.500 V	-100.0MV
57	5	-610.0MV	-1.500 V	-100.0MV
57	9	-610.0MV	-1.500 V	-100.0MV
57	11	-610.0MV	-1.500 V	-100.0MV
57	13	-610.0MV	-1.500 V	-100.0MV
57	14	-480.0MV	-1.500 V	-100.0MV
67	2	530.0MV	100.0MV	1.500 V
67	4	530.0MV	100.0MV	1.500 V
67	6	530.0MV	100.0MV	1.500 V
67	8	530.0MV	100.0MV	1.500 V
67	10	530.0MV	100.0MV	1.500 V
67	12	530.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
189	2	2.980 V	2.900 V	
195	4	2.980 V	2.900 V	
201	6	2.980 V	2.900 V	

207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

 VOH2 TEST
 VCC= 3
 VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.780 V	2.200 V	
248	4	2.790 V	2.200 V	
254	6	2.800 V	2.200 V	
260	8	2.780 V	2.200 V	
266	10	2.780 V	2.200 V	
272	12	2.790 V	2.200 V	

 VOL1 TEST
 VCC= 3
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

 VOL2 TEST
 VCC= 3
 VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	102.0MV		400.0MV
352	4	86.00MV		400.0MV
358	6	86.00MV		400.0MV
364	8	92.00MV		400.0MV
370	10	98.00MV		400.0MV
376	12	90.00MV		400.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 900.0E-03

 VOH1 TEST
 VCC= 4.500
 VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

 VOH2 TEST
 VCC= 4.500
 VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
242	2	4.210 V	3.700 V	
248	4	4.230 V	3.700 V	
254	6	4.240 V	3.700 V	

260	8	4.220 V	3.700 V
266	10	4.220 V	3.700 V
272	12	4.240 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	132.0MV		400.0MV
352	4	106.0MV		400.0MV
358	6	104.0MV		400.0MV
364	8	114.0MV		400.0MV
370	10	124.0MV		400.0MV
376	12	110.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.200 V	
248	4	5.750 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.730 V	5.200 V	
266	10	5.730 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-6.000MV		100.0MV

311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-4.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	148.0MV		400.0MV
352	4	114.0MV		400.0MV
358	6	114.0MV		400.0MV
364	8	124.0MV		400.0MV
370	10	138.0MV		400.0MV
376	12	120.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	950.0E-03	1.500
3	519		1.200	950.0E-03	1.500
5	519		1.240	950.0E-03	1.500
9	519		1.280	950.0E-03	1.500
11	519		1.320	950.0E-03	1.500
13	519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		640.0E-03	300.0E-03	950.0E-03
3	567		600.0E-03	300.0E-03	950.0E-03
5	567		560.0E-03	300.0E-03	950.0E-03
9	567		520.0E-03	300.0E-03	950.0E-03
11	567		480.0E-03	300.0E-03	950.0E-03
13	567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)
VCC= 2
MIN= 200.0E-03
MAX= 1.200

```

-----
INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  586      520.0E-03    200.0E-03    1.200
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  586      600.0E-03    200.0E-03    1.200
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  586      680.0E-03    200.0E-03    1.200
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  586      760.0E-03    200.0E-03    1.200
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  586      840.0E-03    200.0E-03    1.200
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  586      920.0E-03    200.0E-03    1.200

```

```

-----
VTP TEST (VT+)
VCC=      3
MIN=    1.450
MAX=    2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  519      1.660          1.450    2.150
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  519      1.700          1.450    2.150
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  519      1.740          1.450    2.150
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  519      1.780          1.450    2.150
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  519      1.820          1.450    2.150
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  519      1.860          1.450    2.150

```

```

-----
VTN TEST (VT-)
VCC=      3
MIN=    500.0E-03
MAX=    1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  567      1.020          500.0E-03    1.450
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  567      979.8E-03    500.0E-03    1.450
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  567      939.8E-03    500.0E-03    1.450
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  567      899.8E-03    500.0E-03    1.450
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  567      859.8E-03    500.0E-03    1.450
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  567      819.8E-03    500.0E-03    1.450

```

```

-----
VH TEST (HYSTERESIS)
-----

```

VCC= 3
MIN= 250.0E-03
MAX= 1.650

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 640.4E-03 250.0E-03 1.650
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 720.4E-03 250.0E-03 1.650
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 800.4E-03 250.0E-03 1.650
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 880.4E-03 250.0E-03 1.650
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 960.4E-03 250.0E-03 1.650
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 1.040 250.0E-03 1.650

VTP TEST (VT+)
VCC= 4.500
MIN= 2.250
MAX= 3.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 2.400 2.250 3.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 2.440 2.250 3.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 2.480 2.250 3.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 2.520 2.250 3.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 2.560 2.250 3.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 2.600 2.250 3.150

VTN TEST (VT-)
VCC= 4.500
MIN= 900.0E-03
MAX= 2.050
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.560 900.0E-03 2.050
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 1.520 900.0E-03 2.050
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 1.480 900.0E-03 2.050
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 1.440 900.0E-03 2.050
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 1.400 900.0E-03 2.050
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 1.360 900.0E-03 2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		839.7E-03	400.0E-03	2.250
3	586		919.7E-03	400.0E-03	2.250
5	586		999.7E-03	400.0E-03	2.250
9	586		1.080	400.0E-03	2.250
11	586		1.160	400.0E-03	2.250
13	586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		3.160	2.950	4.200
3	519		3.200	2.950	4.200
5	519		3.240	2.950	4.200
9	519		3.280	2.950	4.200
11	519		3.320	2.950	4.200
13	519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		2.101	1.200	2.650
3	567		2.061	1.200	2.650
5	567		2.021	1.200	2.650
9	567		1.981	1.200	2.650
11	567		1.941	1.200	2.650

```

INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
  567      1.901      1.200      2.650

```

```

-----
VH TEST (HYSTERESIS)
VCC=      6
MIN= 500.0E-03
MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
  586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
  586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
  586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
  586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
  586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
  586      1.459      500.0E-03      3

```

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
  619      1  -3.000NA  -1.000UA  1.000UA
  622      1   2.000NA  -1.000UA  1.000UA
  627      3  -4.000NA  -1.000UA  1.000UA
  630      3   2.000NA  -1.000UA  1.000UA
  635      5  -4.000NA  -1.000UA  1.000UA
  638      5   2.000NA  -1.000UA  1.000UA
  643      9  -4.000NA  -1.000UA  1.000UA
  646      9   2.000NA  -1.000UA  1.000UA
  651     11  -4.000NA  -1.000UA  1.000UA
  654     11   2.000NA  -1.000UA  1.000UA
  659     13  -4.000NA  -1.000UA  1.000UA
  662     13   2.000NA  -1.000UA  1.000UA

```

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 1.0UA @25C/-55C
ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
  691     14      0 A      40.00UA
  698     14      0 A      40.00UA

```

```

EIR 1.....10      FCT      DCT
      0000000000      PASS      PASS      EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 2

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-570.0MV	-1.500 V	-100.0MV
57	3	-570.0MV	-1.500 V	-100.0MV
57	5	-570.0MV	-1.500 V	-100.0MV
57	9	-570.0MV	-1.500 V	-100.0MV
57	11	-570.0MV	-1.500 V	-100.0MV
57	13	-570.0MV	-1.500 V	-100.0MV
57	14	-430.0MV	-1.500 V	-100.0MV
67	2	480.0MV	100.0MV	1.500 V
67	4	490.0MV	100.0MV	1.500 V
67	6	490.0MV	100.0MV	1.500 V
67	8	490.0MV	100.0MV	1.500 V
67	10	480.0MV	100.0MV	1.500 V
67	12	480.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.770 V	2.200 V	
248	4	2.780 V	2.200 V	
254	6	2.780 V	2.200 V	
260	8	2.780 V	2.200 V	
266	10	2.780 V	2.200 V	
272	12	2.790 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	106.0MV		400.0MV
352	4	92.00MV		400.0MV
358	6	92.00MV		400.0MV
364	8	96.00MV		400.0MV
370	10	102.0MV		400.0MV
376	12	96.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.460 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.210 V	3.700 V
248	4	4.230 V	3.700 V
254	6	4.230 V	3.700 V
260	8	4.220 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.230 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	136.0MV		400.0MV
352	4	112.0MV		400.0MV
358	6	110.0MV		400.0MV
364	8	118.0MV		400.0MV
370	10	128.0MV		400.0MV
376	12	116.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.200 V	
248	4	5.740 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.720 V	5.200 V	
266	10	5.720 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-4.000MV	100.0MV
299	4	-4.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-4.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	152.0MV		400.0MV
352	4	118.0MV		400.0MV
358	6	116.0MV		400.0MV
364	8	128.0MV		400.0MV
370	10	142.0MV		400.0MV
376	12	124.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
 MIN= 200.0E-03
 MAX= 1.200

```

-----
INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      520.0E-03  200.0E-03  1.200
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      600.0E-03  200.0E-03  1.200
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      680.0E-03  200.0E-03  1.200
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      760.0E-03  200.0E-03  1.200
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      840.0E-03  200.0E-03  1.200
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      920.0E-03  200.0E-03  1.200
  
```

```

-----
VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A
  
```

```

-----
INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   519      1.660      1.450      2.150
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   519      1.700      1.450      2.150
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   519      1.740      1.450      2.150
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   519      1.780      1.450      2.150
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   519      1.820      1.450      2.150
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   519      1.860      1.450      2.150
  
```

```

-----
VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A
  
```

```

-----
INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   567      1.020      500.0E-03  1.450
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   567      979.8E-03  500.0E-03  1.450
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   567      939.8E-03  500.0E-03  1.450
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   567      899.8E-03  500.0E-03  1.450
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   567      859.8E-03  500.0E-03  1.450
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   567      819.8E-03  500.0E-03  1.450
  
```

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		640.4E-03	250.0E-03	1.650
3	586		720.4E-03	250.0E-03	1.650
5	586		800.4E-03	250.0E-03	1.650
9	586		880.4E-03	250.0E-03	1.650
11	586		960.4E-03	250.0E-03	1.650
13	586		1.040	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
			13		
	567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
			1		
	586		839.7E-03	400.0E-03	2.250
			3		
	586		919.7E-03	400.0E-03	2.250
			5		
	586		999.7E-03	400.0E-03	2.250
			9		
	586		1.080	400.0E-03	2.250
			11		
	586		1.160	400.0E-03	2.250
			13		
	586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
			1		
	519		3.160	2.950	4.200
			3		
	519		3.200	2.950	4.200
			5		
	519		3.240	2.950	4.200
			9		
	519		3.280	2.950	4.200
			11		
	519		3.320	2.950	4.200
			13		
	519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
			1		
	567		2.141	1.200	2.650
			3		
	567		2.101	1.200	2.650
			5		
	567		2.061	1.200	2.650
			9		
	567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.981    1.200    2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.019    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.099    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.179    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.259    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.339    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.419    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -1.000UA    1.000UA
   622    1   2.000NA    -1.000UA    1.000UA
   627    3  -4.000NA    -1.000UA    1.000UA
   630    3   2.000NA    -1.000UA    1.000UA
   635    5  -4.000NA    -1.000UA    1.000UA
   638    5   2.000NA    -1.000UA    1.000UA
   643    9  -4.000NA    -1.000UA    1.000UA
   646    9   2.000NA    -1.000UA    1.000UA
   651   11  -4.000NA    -1.000UA    1.000UA
   654   11   2.000NA    -1.000UA    1.000UA
   659   13  -4.000NA    -1.000UA    1.000UA
   662   13   2.000NA    -1.000UA    1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14      0 A      40.00UA
   698   14      0 A      40.00UA

```

```

EIR 1.....10    FCT    DCT
    0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 3

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-580.0MV	-1.500 V	-100.0MV
57	3	-590.0MV	-1.500 V	-100.0MV
57	5	-580.0MV	-1.500 V	-100.0MV
57	9	-590.0MV	-1.500 V	-100.0MV
57	11	-580.0MV	-1.500 V	-100.0MV
57	13	-580.0MV	-1.500 V	-100.0MV
57	14	-440.0MV	-1.500 V	-100.0MV
67	2	500.0MV	100.0MV	1.500 V
67	4	500.0MV	100.0MV	1.500 V
67	6	500.0MV	100.0MV	1.500 V
67	8	500.0MV	100.0MV	1.500 V
67	10	500.0MV	100.0MV	1.500 V
67	12	500.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.980 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.730 V	2.200 V	
248	4	2.780 V	2.200 V	
254	6	2.780 V	2.200 V	
260	8	2.770 V	2.200 V	
266	10	2.770 V	2.200 V	
272	12	2.780 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	150.0MV		400.0MV
352	4	94.00MV		400.0MV
358	6	92.00MV		400.0MV
364	8	98.00MV		400.0MV
370	10	104.0MV		400.0MV
376	12	98.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.170 V	3.700 V
248	4	4.220 V	3.700 V
254	6	4.230 V	3.700 V
260	8	4.210 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.230 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	168.0MV		400.0MV
352	4	112.0MV		400.0MV
358	6	112.0MV		400.0MV
364	8	120.0MV		400.0MV
370	10	130.0MV		400.0MV
376	12	116.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.690 V	5.200 V	
248	4	5.730 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.720 V	5.200 V	
266	10	5.720 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-8.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	162.0MV		400.0MV
352	4	116.0MV		400.0MV
358	6	118.0MV		400.0MV
364	8	126.0MV		400.0MV
370	10	142.0MV		400.0MV
376	12	124.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 779.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		680.3E-03	250.0E-03	1.650
3	586		760.4E-03	250.0E-03	1.650
5	586		840.4E-03	250.0E-03	1.650
9	586		920.4E-03	250.0E-03	1.650
11	586		1.000	250.0E-03	1.650
13	586		1.080	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -1.000UA    1.000UA
   622    1  2.000NA    -1.000UA    1.000UA
   627    3  -4.000NA    -1.000UA    1.000UA
   630    3  2.000NA    -1.000UA    1.000UA
   635    5  -4.000NA    -1.000UA    1.000UA
   638    5  2.000NA    -1.000UA    1.000UA
   643    9  -4.000NA    -1.000UA    1.000UA
   646    9  2.000NA    -1.000UA    1.000UA
   651   11  -4.000NA    -1.000UA    1.000UA
   654   11  2.000NA    -1.000UA    1.000UA
   659   13  -4.000NA    -1.000UA    1.000UA
   662   13  2.000NA    -1.000UA    1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14    0 A      40.00UA
   698   14 -100.0NA    40.00UA

```

```

EIR 1.....10    FCT    DCT
    0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 4

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-610.0MV	-1.500 V	-100.0MV
57	3	-610.0MV	-1.500 V	-100.0MV
57	5	-610.0MV	-1.500 V	-100.0MV
57	9	-600.0MV	-1.500 V	-100.0MV
57	11	-600.0MV	-1.500 V	-100.0MV
57	13	-600.0MV	-1.500 V	-100.0MV
57	14	-460.0MV	-1.500 V	-100.0MV
67	2	520.0MV	100.0MV	1.500 V
67	4	520.0MV	100.0MV	1.500 V
67	6	520.0MV	100.0MV	1.500 V
67	8	520.0MV	100.0MV	1.500 V
67	10	520.0MV	100.0MV	1.500 V
67	12	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.760 V	2.200 V	
248	4	2.770 V	2.200 V	
254	6	2.780 V	2.200 V	
260	8	2.770 V	2.200 V	
266	10	2.760 V	2.200 V	
272	12	2.780 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	112.0MV		400.0MV
352	4	98.00MV		400.0MV
358	6	96.00MV		400.0MV
364	8	104.0MV		400.0MV
370	10	108.0MV		400.0MV
376	12	102.0MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.200 V	3.700 V
248	4	4.220 V	3.700 V
254	6	4.220 V	3.700 V
260	8	4.210 V	3.700 V
266	10	4.200 V	3.700 V
272	12	4.220 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	142.0MV		400.0MV
352	4	118.0MV		400.0MV
358	6	116.0MV		400.0MV
364	8	126.0MV		400.0MV
370	10	136.0MV		400.0MV
376	12	122.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.700 V	5.200 V	
248	4	5.730 V	5.200 V	
254	6	5.720 V	5.200 V	
260	8	5.710 V	5.200 V	
266	10	5.700 V	5.200 V	
272	12	5.730 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	158.0MV		400.0MV
352	4	124.0MV		400.0MV
358	6	126.0MV		400.0MV
364	8	138.0MV		400.0MV
370	10	148.0MV		400.0MV
376	12	134.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.020 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		640.4E-03	250.0E-03	1.650
3	586		720.4E-03	250.0E-03	1.650
5	586		800.4E-03	250.0E-03	1.650
9	586		880.4E-03	250.0E-03	1.650
11	586		960.4E-03	250.0E-03	1.650
13	586		1.040	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.250	3.150
3	519		2.480	2.250	3.150
5	519		2.520	2.250	3.150
9	519		2.560	2.250	3.150
11	519		2.600	2.250	3.150
13	519		2.640	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.6E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.399	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.141	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.981      1.200      2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -4.000NA  -1.000UA  1.000UA
   622      1  2.000NA  -1.000UA  1.000UA
   627      3  -4.000NA  -1.000UA  1.000UA
   630      3  2.000NA  -1.000UA  1.000UA
   635      5  -4.000NA  -1.000UA  1.000UA
   638      5  2.000NA  -1.000UA  1.000UA
   643      9  -4.000NA  -1.000UA  1.000UA
   646      9  2.000NA  -1.000UA  1.000UA
   651     11  -4.000NA  -1.000UA  1.000UA
   654     11  2.000NA  -1.000UA  1.000UA
   659     13  -4.000NA  -1.000UA  1.000UA
   662     13  2.000NA  -1.000UA  1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14      0 A      40.00UA
   698     14      0 A      40.00UA

```

```

EIR 1.....10      FCT      DCT
      0000000000      PASS      PASS      EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 5

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-570.0MV	-1.500 V	-100.0MV
57	3	-570.0MV	-1.500 V	-100.0MV
57	5	-570.0MV	-1.500 V	-100.0MV
57	9	-570.0MV	-1.500 V	-100.0MV
57	11	-570.0MV	-1.500 V	-100.0MV
57	13	-570.0MV	-1.500 V	-100.0MV
57	14	-420.0MV	-1.500 V	-100.0MV
67	2	490.0MV	100.0MV	1.500 V
67	4	490.0MV	100.0MV	1.500 V
67	6	480.0MV	100.0MV	1.500 V
67	8	480.0MV	100.0MV	1.500 V
67	10	480.0MV	100.0MV	1.500 V
67	12	480.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.970 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.770 V	2.200 V	
248	4	2.770 V	2.200 V	
254	6	2.780 V	2.200 V	
260	8	2.770 V	2.200 V	
266	10	2.760 V	2.200 V	
272	12	2.780 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	112.0MV		400.0MV
352	4	98.00MV		400.0MV
358	6	96.00MV		400.0MV
364	8	102.0MV		400.0MV
370	10	108.0MV		400.0MV
376	12	100.0MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.200 V	3.700 V
248	4	4.210 V	3.700 V
254	6	4.220 V	3.700 V
260	8	4.200 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.220 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	142.0MV		400.0MV
352	4	118.0MV		400.0MV
358	6	118.0MV		400.0MV
364	8	124.0MV		400.0MV
370	10	136.0MV		400.0MV
376	12	120.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.700 V	5.200 V	
248	4	5.730 V	5.200 V	
254	6	5.730 V	5.200 V	
260	8	5.710 V	5.200 V	
266	10	5.710 V	5.200 V	
272	12	5.730 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	154.0MV		400.0MV
352	4	124.0MV		400.0MV
358	6	122.0MV		400.0MV
364	8	136.0MV		400.0MV
370	10	148.0MV		400.0MV
376	12	130.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.020 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		640.4E-03	250.0E-03	1.650
3	586		720.4E-03	250.0E-03	1.650
5	586		800.4E-03	250.0E-03	1.650
9	586		880.4E-03	250.0E-03	1.650
11	586		960.4E-03	250.0E-03	1.650
13	586		1.040	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.250	3.150
3	519		2.480	2.250	3.150
5	519		2.520	2.250	3.150
9	519		2.560	2.250	3.150
11	519		2.600	2.250	3.150
13	519		2.640	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.6E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.399	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.141	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.981    1.200    2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.650

```

```

-----
                VH TEST (HYSTERESIS)
                VCC=      6
                MIN=  500.0E-03
                MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
                IIN TEST
                VCC=      6
                IIL/IIH LIMIT +- 0.1UA @25C/-55C
                IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -1.000UA    1.000UA
   622    1   2.000NA    -1.000UA    1.000UA
   627    3  -4.000NA    -1.000UA    1.000UA
   630    3   2.000NA    -1.000UA    1.000UA
   635    5  -4.000NA    -1.000UA    1.000UA
   638    5   2.000NA    -1.000UA    1.000UA
   643    9  -4.000NA    -1.000UA    1.000UA
   646    9   2.000NA    -1.000UA    1.000UA
   651   11  -4.000NA    -1.000UA    1.000UA
   654   11   2.000NA    -1.000UA    1.000UA
   659   13  -4.000NA    -1.000UA    1.000UA
   662   13   2.000NA    -1.000UA    1.000UA

```

```

-----
                ICC TEST
                VCC=      6
                ICC LIMIT MAX. 1.0UA @25C/-55C
                ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14     0 A      40.00UA
   698   14     0 A      40.00UA

```

```

EIR 1.....10    FCT    DCT
    0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 6

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-610.0MV	-1.500 V	-100.0MV
57	3	-610.0MV	-1.500 V	-100.0MV
57	5	-610.0MV	-1.500 V	-100.0MV
57	9	-600.0MV	-1.500 V	-100.0MV
57	11	-600.0MV	-1.500 V	-100.0MV
57	13	-600.0MV	-1.500 V	-100.0MV
57	14	-460.0MV	-1.500 V	-100.0MV
67	2	520.0MV	100.0MV	1.500 V
67	4	520.0MV	100.0MV	1.500 V
67	6	520.0MV	100.0MV	1.500 V
67	8	520.0MV	100.0MV	1.500 V
67	10	520.0MV	100.0MV	1.500 V
67	12	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.980 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.980 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.780 V	2.200 V	
248	4	2.790 V	2.200 V	
254	6	2.790 V	2.200 V	
260	8	2.780 V	2.200 V	
266	10	2.780 V	2.200 V	
272	12	2.790 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		400.0MV
352	4	88.00MV		400.0MV
358	6	88.00MV		400.0MV
364	8	94.00MV		400.0MV
370	10	100.0MV		400.0MV
376	12	94.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.460 V	4.400 V	
195	4	4.460 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.460 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.210 V	3.700 V
248	4	4.230 V	3.700 V
254	6	4.230 V	3.700 V
260	8	4.220 V	3.700 V
266	10	4.220 V	3.700 V
272	12	4.230 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	134.0MV		400.0MV
352	4	110.0MV		400.0MV
358	6	108.0MV		400.0MV
364	8	118.0MV		400.0MV
370	10	128.0MV		400.0MV
376	12	114.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.200 V	
248	4	5.740 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.720 V	5.200 V	
266	10	5.720 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	150.0MV		400.0MV
352	4	118.0MV		400.0MV
358	6	116.0MV		400.0MV
364	8	128.0MV		400.0MV
370	10	140.0MV		400.0MV
376	12	124.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.020 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		640.4E-03	250.0E-03	1.650
3	586		720.4E-03	250.0E-03	1.650
5	586		800.4E-03	250.0E-03	1.650
9	586		880.4E-03	250.0E-03	1.650
11	586		960.4E-03	250.0E-03	1.650
13	586		1.040	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.141	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.981    1.200    2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.019    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.099    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.179    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.259    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.339    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.419    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -1.000UA    1.000UA
   622    1  2.000NA    -1.000UA    1.000UA
   627    3  -4.000NA    -1.000UA    1.000UA
   630    3  2.000NA    -1.000UA    1.000UA
   635    5  -4.000NA    -1.000UA    1.000UA
   638    5  2.000NA    -1.000UA    1.000UA
   643    9  -4.000NA    -1.000UA    1.000UA
   646    9  2.000NA    -1.000UA    1.000UA
   651   11  -4.000NA    -1.000UA    1.000UA
   654   11  2.000NA    -1.000UA    1.000UA
   659   13  -4.000NA    -1.000UA    1.000UA
   662   13  2.000NA    -1.000UA    1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14      0 A      40.00UA
   698   14      0 A      40.00UA

```

```

EIR 1.....10    FCT    DCT
    0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 7

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-600.0MV	-1.500 V	-100.0MV
57	3	-600.0MV	-1.500 V	-100.0MV
57	5	-600.0MV	-1.500 V	-100.0MV
57	9	-600.0MV	-1.500 V	-100.0MV
57	11	-600.0MV	-1.500 V	-100.0MV
57	13	-600.0MV	-1.500 V	-100.0MV
57	14	-460.0MV	-1.500 V	-100.0MV
67	2	520.0MV	100.0MV	1.500 V
67	4	520.0MV	100.0MV	1.500 V
67	6	510.0MV	100.0MV	1.500 V
67	8	510.0MV	100.0MV	1.500 V
67	10	510.0MV	100.0MV	1.500 V
67	12	510.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.980 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.980 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.770 V	2.200 V	
248	4	2.790 V	2.200 V	
254	6	2.790 V	2.200 V	
260	8	2.780 V	2.200 V	
266	10	2.780 V	2.200 V	
272	12	2.790 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		400.0MV
352	4	90.00MV		400.0MV
358	6	90.00MV		400.0MV
364	8	94.00MV		400.0MV
370	10	102.0MV		400.0MV
376	12	92.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.210 V	3.700 V
248	4	4.230 V	3.700 V
254	6	4.230 V	3.700 V
260	8	4.220 V	3.700 V
266	10	4.220 V	3.700 V
272	12	4.230 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	134.0MV		400.0MV
352	4	110.0MV		400.0MV
358	6	110.0MV		400.0MV
364	8	118.0MV		400.0MV
370	10	128.0MV		400.0MV
376	12	114.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.200 V	
248	4	5.730 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.720 V	5.200 V	
266	10	5.720 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	148.0MV		400.0MV
352	4	118.0MV		400.0MV
358	6	116.0MV		400.0MV
364	8	130.0MV		400.0MV
370	10	142.0MV		400.0MV
376	12	124.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.020 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		640.4E-03	250.0E-03	1.650
3	586		720.4E-03	250.0E-03	1.650
5	586		800.4E-03	250.0E-03	1.650
9	586		880.4E-03	250.0E-03	1.650
11	586		960.4E-03	250.0E-03	1.650
13	586		1.040	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.141	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.981      1.200      2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.019      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.099      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.179      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.259      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.339      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.419      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -4.000NA     -1.000UA     1.000UA
   622      1   2.000NA     -1.000UA     1.000UA
   627      3  -4.000NA     -1.000UA     1.000UA
   630      3   2.000NA     -1.000UA     1.000UA
   635      5  -4.000NA     -1.000UA     1.000UA
   638      5   2.000NA     -1.000UA     1.000UA
   643      9  -4.000NA     -1.000UA     1.000UA
   646      9   2.000NA     -1.000UA     1.000UA
   651     11  -4.000NA     -1.000UA     1.000UA
   654     11   2.000NA     -1.000UA     1.000UA
   659     13  -4.000NA     -1.000UA     1.000UA
   662     13   2.000NA     -1.000UA     1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14      0 A      40.00UA
   698     14      0 A      40.00UA

```

```

EIR 1.....10      FCT      DCT
      0000000000      PASS      PASS      EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 8

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-610.0MV	-1.500 V	-100.0MV
57	3	-600.0MV	-1.500 V	-100.0MV
57	5	-600.0MV	-1.500 V	-100.0MV
57	9	-600.0MV	-1.500 V	-100.0MV
57	11	-600.0MV	-1.500 V	-100.0MV
57	13	-600.0MV	-1.500 V	-100.0MV
57	14	-460.0MV	-1.500 V	-100.0MV
67	2	520.0MV	100.0MV	1.500 V
67	4	520.0MV	100.0MV	1.500 V
67	6	510.0MV	100.0MV	1.500 V
67	8	510.0MV	100.0MV	1.500 V
67	10	520.0MV	100.0MV	1.500 V
67	12	510.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.780 V	2.200 V	
248	4	2.790 V	2.200 V	
254	6	2.790 V	2.200 V	
260	8	2.780 V	2.200 V	
266	10	2.780 V	2.200 V	
272	12	2.790 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	102.0MV		400.0MV
352	4	88.00MV		400.0MV
358	6	88.00MV		400.0MV
364	8	94.00MV		400.0MV
370	10	100.0MV		400.0MV
376	12	92.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.210 V	3.700 V
248	4	4.230 V	3.700 V
254	6	4.230 V	3.700 V
260	8	4.220 V	3.700 V
266	10	4.220 V	3.700 V
272	12	4.240 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	132.0MV		400.0MV
352	4	106.0MV		400.0MV
358	6	106.0MV		400.0MV
364	8	116.0MV		400.0MV
370	10	126.0MV		400.0MV
376	12	112.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.200 V	
248	4	5.740 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.720 V	5.200 V	
266	10	5.720 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	146.0MV		400.0MV
352	4	116.0MV		400.0MV
358	6	114.0MV		400.0MV
364	8	126.0MV		400.0MV
370	10	142.0MV		400.0MV
376	12	122.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.020 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		640.4E-03	250.0E-03	1.650
3	586		720.4E-03	250.0E-03	1.650
5	586		800.4E-03	250.0E-03	1.650
9	586		880.4E-03	250.0E-03	1.650
11	586		960.4E-03	250.0E-03	1.650
13	586		1.040	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		1.981	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.901    1.200    2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.059    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.139    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.219    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.299    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.379    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.459    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -1.000UA    1.000UA
   622    1  2.000NA    -1.000UA    1.000UA
   627    3  -4.000NA    -1.000UA    1.000UA
   630    3  2.000NA    -1.000UA    1.000UA
   635    5  -4.000NA    -1.000UA    1.000UA
   638    5  2.000NA    -1.000UA    1.000UA
   643    9  -4.000NA    -1.000UA    1.000UA
   646    9  2.000NA    -1.000UA    1.000UA
   651   11  -4.000NA    -1.000UA    1.000UA
   654   11  2.000NA    -1.000UA    1.000UA
   659   13  -4.000NA    -1.000UA    1.000UA
   662   13  2.000NA    -1.000UA    1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14      0 A      40.00UA
   698   14      0 A      40.00UA

```

```

EIR 1.....10    FCT    DCT
    0000000000    PASS    PASS    EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 9

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-610.0MV	-1.500 V	-100.0MV
57	3	-610.0MV	-1.500 V	-100.0MV
57	5	-610.0MV	-1.500 V	-100.0MV
57	9	-610.0MV	-1.500 V	-100.0MV
57	11	-610.0MV	-1.500 V	-100.0MV
57	13	-610.0MV	-1.500 V	-100.0MV
57	14	-470.0MV	-1.500 V	-100.0MV
67	2	530.0MV	100.0MV	1.500 V
67	4	520.0MV	100.0MV	1.500 V
67	6	520.0MV	100.0MV	1.500 V
67	8	520.0MV	100.0MV	1.500 V
67	10	520.0MV	100.0MV	1.500 V
67	12	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.970 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.970 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.770 V	2.200 V	
248	4	2.790 V	2.200 V	
254	6	2.790 V	2.200 V	
260	8	2.780 V	2.200 V	
266	10	2.780 V	2.200 V	
272	12	2.790 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-10.00MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		400.0MV
352	4	88.00MV		400.0MV
358	6	88.00MV		400.0MV
364	8	94.00MV		400.0MV
370	10	102.0MV		400.0MV
376	12	90.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.460 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.210 V	3.700 V
248	4	4.230 V	3.700 V
254	6	4.240 V	3.700 V
260	8	4.220 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.230 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	134.0MV		400.0MV
352	4	108.0MV		400.0MV
358	6	108.0MV		400.0MV
364	8	116.0MV		400.0MV
370	10	128.0MV		400.0MV
376	12	114.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.200 V	
248	4	5.730 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.730 V	5.200 V	
266	10	5.720 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	150.0MV		400.0MV
352	4	116.0MV		400.0MV
358	6	114.0MV		400.0MV
364	8	128.0MV		400.0MV
370	10	140.0MV		400.0MV
376	12	122.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.020 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		640.4E-03	250.0E-03	1.650
3	586		720.4E-03	250.0E-03	1.650
5	586		800.4E-03	250.0E-03	1.650
9	586		880.4E-03	250.0E-03	1.650
11	586		960.4E-03	250.0E-03	1.650
13	586		1.040	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.141	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.981      1.200      2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.019      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.099      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.179      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.259      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.339      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.419      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -4.000NA      -1.000UA      1.000UA
   622      1  2.000NA      -1.000UA      1.000UA
   627      3  -4.000NA      -1.000UA      1.000UA
   630      3  2.000NA      -1.000UA      1.000UA
   635      5  -4.000NA      -1.000UA      1.000UA
   638      5  2.000NA      -1.000UA      1.000UA
   643      9  -4.000NA      -1.000UA      1.000UA
   646      9  2.000NA      -1.000UA      1.000UA
   651     11  -4.000NA      -1.000UA      1.000UA
   654     11  2.000NA      -1.000UA      1.000UA
   659     13  -4.000NA      -1.000UA      1.000UA
   662     13  2.000NA      -1.000UA      1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14      0 A      40.00UA
   698     14      0 A      40.00UA

```

```

EIR 1.....10      FCT      DCT
      0000000000      PASS      PASS      EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 10

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-610.0MV	-1.500 V	-100.0MV
57	3	-610.0MV	-1.500 V	-100.0MV
57	5	-610.0MV	-1.500 V	-100.0MV
57	9	-610.0MV	-1.500 V	-100.0MV
57	11	-610.0MV	-1.500 V	-100.0MV
57	13	-610.0MV	-1.500 V	-100.0MV
57	14	-470.0MV	-1.500 V	-100.0MV
67	2	520.0MV	100.0MV	1.500 V
67	4	520.0MV	100.0MV	1.500 V
67	6	520.0MV	100.0MV	1.500 V
67	8	520.0MV	100.0MV	1.500 V
67	10	520.0MV	100.0MV	1.500 V
67	12	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.770 V	2.200 V	
248	4	2.780 V	2.200 V	
254	6	2.780 V	2.200 V	
260	8	2.770 V	2.200 V	
266	10	2.770 V	2.200 V	
272	12	2.780 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-6.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	110.0MV		400.0MV
352	4	96.00MV		400.0MV
358	6	94.00MV		400.0MV
364	8	100.0MV		400.0MV
370	10	106.0MV		400.0MV
376	12	96.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.200 V	3.700 V
248	4	4.220 V	3.700 V
254	6	4.220 V	3.700 V
260	8	4.220 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.220 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	140.0MV		400.0MV
352	4	114.0MV		400.0MV
358	6	114.0MV		400.0MV
364	8	122.0MV		400.0MV
370	10	132.0MV		400.0MV
376	12	118.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.970 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.980 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.700 V	5.200 V	
248	4	5.730 V	5.200 V	
254	6	5.730 V	5.200 V	
260	8	5.720 V	5.200 V	
266	10	5.710 V	5.200 V	
272	12	5.730 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-8.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	156.0MV		400.0MV
352	4	120.0MV		400.0MV
358	6	120.0MV		400.0MV
364	8	134.0MV		400.0MV
370	10	146.0MV		400.0MV
376	12	126.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.900 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.020 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		680.4E-03	250.0E-03	1.650
3	586		760.4E-03	250.0E-03	1.650
5	586		840.4E-03	250.0E-03	1.650
9	586		920.4E-03	250.0E-03	1.650
11	586		1.000	250.0E-03	1.650
13	586		1.080	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.440	2.250	3.150
3	519		2.480	2.250	3.150
5	519		2.520	2.250	3.150
9	519		2.560	2.250	3.150
11	519		2.600	2.250	3.150
13	519		2.640	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		879.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		959.6E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		1.040	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.120	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.200	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.280	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.399	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.141	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.981      1.200      2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.059      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.139      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.219      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.299      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.379      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.459      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -4.000NA      -1.000UA      1.000UA
   622      1  2.000NA      -1.000UA      1.000UA
   627      3  -4.000NA      -1.000UA      1.000UA
   630      3  2.000NA      -1.000UA      1.000UA
   635      5  -4.000NA      -1.000UA      1.000UA
   638      5  2.000NA      -1.000UA      1.000UA
   643      9  -4.000NA      -1.000UA      1.000UA
   646      9  2.000NA      -1.000UA      1.000UA
   651     11  -4.000NA      -1.000UA      1.000UA
   654     11  2.000NA      -1.000UA      1.000UA
   659     13  -4.000NA      -1.000UA      1.000UA
   662     13  2.000NA      -1.000UA      1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14      0 A      40.00UA
   698     14      0 A      40.00UA

```

```

EIR 1.....10      FCT      DCT
      0000000000      PASS      PASS      EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 11

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-620.0MV	-1.500 V	-100.0MV
57	3	-620.0MV	-1.500 V	-100.0MV
57	5	-620.0MV	-1.500 V	-100.0MV
57	9	-620.0MV	-1.500 V	-100.0MV
57	11	-620.0MV	-1.500 V	-100.0MV
57	13	-620.0MV	-1.500 V	-100.0MV
57	14	-480.0MV	-1.500 V	-100.0MV
67	2	530.0MV	100.0MV	1.500 V
67	4	530.0MV	100.0MV	1.500 V
67	6	530.0MV	100.0MV	1.500 V
67	8	530.0MV	100.0MV	1.500 V
67	10	530.0MV	100.0MV	1.500 V
67	12	530.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.980 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.980 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.970 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.770 V	2.200 V	
248	4	2.790 V	2.200 V	
254	6	2.790 V	2.200 V	
260	8	2.790 V	2.200 V	
266	10	2.780 V	2.200 V	
272	12	2.790 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	104.0MV		400.0MV
352	4	88.00MV		400.0MV
358	6	88.00MV		400.0MV
364	8	94.00MV		400.0MV
370	10	100.0MV		400.0MV
376	12	92.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.210 V	3.700 V
248	4	4.230 V	3.700 V
254	6	4.230 V	3.700 V
260	8	4.220 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.230 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	134.0MV		400.0MV
352	4	108.0MV		400.0MV
358	6	106.0MV		400.0MV
364	8	116.0MV		400.0MV
370	10	126.0MV		400.0MV
376	12	112.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.970 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.970 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.980 V	5.900 V	
219	12	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.710 V	5.200 V	
248	4	5.740 V	5.200 V	
254	6	5.740 V	5.200 V	
260	8	5.720 V	5.200 V	
266	10	5.720 V	5.200 V	
272	12	5.740 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	150.0MV		400.0MV
352	4	114.0MV		400.0MV
358	6	114.0MV		400.0MV
364	8	126.0MV		400.0MV
370	10	140.0MV		400.0MV
376	12	122.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		1.160	950.0E-03	1.500
3	519		1.200	950.0E-03	1.500
5	519		1.240	950.0E-03	1.500
9	519		1.280	950.0E-03	1.500
11	519		1.320	950.0E-03	1.500
13	519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		640.0E-03	300.0E-03	950.0E-03
3	567		600.0E-03	300.0E-03	950.0E-03
5	567		560.0E-03	300.0E-03	950.0E-03
9	567		520.0E-03	300.0E-03	950.0E-03
11	567		480.0E-03	300.0E-03	950.0E-03
13	567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.020 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		640.4E-03	250.0E-03	1.650
3	586		720.4E-03	250.0E-03	1.650
5	586		800.4E-03	250.0E-03	1.650
9	586		880.4E-03	250.0E-03	1.650
11	586		960.4E-03	250.0E-03	1.650
13	586		1.040	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.141	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567      1.981      1.200      2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567      1.941      1.200      2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586      1.019      500.0E-03      3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586      1.099      500.0E-03      3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586      1.179      500.0E-03      3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586      1.259      500.0E-03      3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586      1.339      500.0E-03      3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586      1.419      500.0E-03      3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619      1  -4.000NA      -1.000UA      1.000UA
   622      1  2.000NA      -1.000UA      1.000UA
   627      3  -4.000NA      -1.000UA      1.000UA
   630      3  2.000NA      -1.000UA      1.000UA
   635      5  -4.000NA      -1.000UA      1.000UA
   638      5  2.000NA      -1.000UA      1.000UA
   643      9  -4.000NA      -1.000UA      1.000UA
   646      9  2.000NA      -1.000UA      1.000UA
   651     11  -4.000NA      -1.000UA      1.000UA
   654     11  2.000NA      -1.000UA      1.000UA
   659     13  -4.000NA      -1.000UA      1.000UA
   662     13  2.000NA      -1.000UA      1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691     14      0 A      40.00UA
   698     14      0 A      40.00UA

```

```

EIR 1.....10      FCT      DCT
      0000000000      PASS      PASS      EOT

```

STAT1 06/11/11 06:49
TEST PROGRAM 4HC14 S/N 12

DDS-101-06-A PN 54HC14 ELECTRICAL TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
57	1	-580.0MV	-1.500 V	-100.0MV
57	3	-580.0MV	-1.500 V	-100.0MV
57	5	-580.0MV	-1.500 V	-100.0MV
57	9	-580.0MV	-1.500 V	-100.0MV
57	11	-580.0MV	-1.500 V	-100.0MV
57	13	-580.0MV	-1.500 V	-100.0MV
57	14	-440.0MV	-1.500 V	-100.0MV
67	2	500.0MV	100.0MV	1.500 V
67	4	500.0MV	100.0MV	1.500 V
67	6	500.0MV	100.0MV	1.500 V
67	8	500.0MV	100.0MV	1.500 V
67	10	500.0MV	100.0MV	1.500 V
67	12	500.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 300.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
189	2	1.970 V	1.900 V	
195	4	1.970 V	1.900 V	
201	6	1.970 V	1.900 V	
207	8	1.970 V	1.900 V	
213	10	1.970 V	1.900 V	
219	12	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.150 VIL= 500.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

189	2	2.970 V	2.900 V
195	4	2.980 V	2.900 V
201	6	2.970 V	2.900 V
207	8	2.980 V	2.900 V
213	10	2.980 V	2.900 V
219	12	2.980 V	2.900 V

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
242	2	2.770 V	2.200 V	
248	4	2.780 V	2.200 V	
254	6	2.780 V	2.200 V	
260	8	2.780 V	2.200 V	
266	10	2.770 V	2.200 V	
272	12	2.780 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-8.000MV		100.0MV
299	4	-8.000MV		100.0MV
305	6	-6.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-8.000MV		100.0MV
323	12	-6.000MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	110.0MV		400.0MV
352	4	94.00MV		400.0MV
358	6	92.00MV		400.0MV
364	8	98.00MV		400.0MV
370	10	104.0MV		400.0MV
376	12	96.00MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 900.0E-03

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
189	2	4.450 V	4.400 V	
195	4	4.450 V	4.400 V	
201	6	4.450 V	4.400 V	
207	8	4.450 V	4.400 V	
213	10	4.450 V	4.400 V	
219	12	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

242	2	4.200 V	3.700 V
248	4	4.220 V	3.700 V
254	6	4.220 V	3.700 V
260	8	4.210 V	3.700 V
266	10	4.210 V	3.700 V
272	12	4.220 V	3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
293	2	-6.000MV		100.0MV
299	4	-6.000MV		100.0MV
305	6	-8.000MV		100.0MV
311	8	-8.000MV		100.0MV
317	10	-6.000MV		100.0MV
323	12	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	140.0MV		400.0MV
352	4	112.0MV		400.0MV
358	6	112.0MV		400.0MV
364	8	120.0MV		400.0MV
370	10	132.0MV		400.0MV
376	12	118.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.200

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
189	2	5.980 V	5.900 V	
195	4	5.980 V	5.900 V	
201	6	5.980 V	5.900 V	
207	8	5.970 V	5.900 V	
213	10	5.970 V	5.900 V	
219	12	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
242	2	5.700 V	5.200 V	
248	4	5.730 V	5.200 V	
254	6	5.730 V	5.200 V	
260	8	5.720 V	5.200 V	
266	10	5.710 V	5.200 V	
272	12	5.730 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
--------	-----	----------	----	----

293	2	-6.000MV	100.0MV
299	4	-6.000MV	100.0MV
305	6	-6.000MV	100.0MV
311	8	-6.000MV	100.0MV
317	10	-6.000MV	100.0MV
323	12	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
346	2	154.0MV		400.0MV
352	4	120.0MV		400.0MV
358	6	120.0MV		400.0MV
364	8	130.0MV		400.0MV
370	10	144.0MV		400.0MV
376	12	126.0MV		400.0MV

VTP TEST (VT+)
VCC= 2
MIN= 950.0E-03
MAX= 1.500
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
519		1.160	950.0E-03	1.500
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
519		1.200	950.0E-03	1.500
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
519		1.240	950.0E-03	1.500
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
519		1.280	950.0E-03	1.500
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
519		1.320	950.0E-03	1.500
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
519		1.360	950.0E-03	1.500

VTN TEST (VT-)
VCC= 2
MIN= 300.0E-03
MAX= 950.0E-03
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS		1		
INST #	PIN	MEASURED	LT	GT
567		640.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		3		
INST #	PIN	MEASURED	LT	GT
567		600.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		5		
INST #	PIN	MEASURED	LT	GT
567		560.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		9		
INST #	PIN	MEASURED	LT	GT
567		520.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		11		
INST #	PIN	MEASURED	LT	GT
567		480.0E-03	300.0E-03	950.0E-03
INPUT PIN IS		13		
INST #	PIN	MEASURED	LT	GT
567		440.0E-03	300.0E-03	950.0E-03

VH TEST (HYSTERESIS)

VCC= 2
MIN= 200.0E-03
MAX= 1.200

INPUT PIN IS 1
INST # PIN MEASURED LT GT
586 520.0E-03 200.0E-03 1.200
INPUT PIN IS 3
INST # PIN MEASURED LT GT
586 600.0E-03 200.0E-03 1.200
INPUT PIN IS 5
INST # PIN MEASURED LT GT
586 680.0E-03 200.0E-03 1.200
INPUT PIN IS 9
INST # PIN MEASURED LT GT
586 760.0E-03 200.0E-03 1.200
INPUT PIN IS 11
INST # PIN MEASURED LT GT
586 840.0E-03 200.0E-03 1.200
INPUT PIN IS 13
INST # PIN MEASURED LT GT
586 920.0E-03 200.0E-03 1.200

VTP TEST (VT+)
VCC= 3
MIN= 1.450
MAX= 2.150
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
519 1.660 1.450 2.150
INPUT PIN IS 3
INST # PIN MEASURED LT GT
519 1.700 1.450 2.150
INPUT PIN IS 5
INST # PIN MEASURED LT GT
519 1.740 1.450 2.150
INPUT PIN IS 9
INST # PIN MEASURED LT GT
519 1.780 1.450 2.150
INPUT PIN IS 11
INST # PIN MEASURED LT GT
519 1.820 1.450 2.150
INPUT PIN IS 13
INST # PIN MEASURED LT GT
519 1.860 1.450 2.150

VTN TEST (VT-)
VCC= 3
MIN= 500.0E-03
MAX= 1.450
PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS 1
INST # PIN MEASURED LT GT
567 1.020 500.0E-03 1.450
INPUT PIN IS 3
INST # PIN MEASURED LT GT
567 979.8E-03 500.0E-03 1.450
INPUT PIN IS 5
INST # PIN MEASURED LT GT
567 939.8E-03 500.0E-03 1.450
INPUT PIN IS 9
INST # PIN MEASURED LT GT
567 899.8E-03 500.0E-03 1.450
INPUT PIN IS 11
INST # PIN MEASURED LT GT
567 859.8E-03 500.0E-03 1.450
INPUT PIN IS 13
INST # PIN MEASURED LT GT
567 819.8E-03 500.0E-03 1.450

 VH TEST (HYSTERESIS)
 VCC= 3
 MIN= 250.0E-03
 MAX= 1.650

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	586		640.4E-03	250.0E-03	1.650
3	586		720.4E-03	250.0E-03	1.650
5	586		800.4E-03	250.0E-03	1.650
9	586		880.4E-03	250.0E-03	1.650
11	586		960.4E-03	250.0E-03	1.650
13	586		1.040	250.0E-03	1.650

 VTP TEST (VT+)
 VCC= 4.500
 MIN= 2.250
 MAX= 3.150
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	519		2.400	2.250	3.150
3	519		2.440	2.250	3.150
5	519		2.480	2.250	3.150
9	519		2.520	2.250	3.150
11	519		2.560	2.250	3.150
13	519		2.600	2.250	3.150

 VTN TEST (VT-)
 VCC= 4.500
 MIN= 900.0E-03
 MAX= 2.050
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	INST #	PIN	MEASURED	LT	GT
1	567		1.560	900.0E-03	2.050
3	567		1.520	900.0E-03	2.050
5	567		1.480	900.0E-03	2.050
9	567		1.440	900.0E-03	2.050
11	567		1.400	900.0E-03	2.050

INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
567		1.360	900.0E-03	2.050

 VH TEST (HYSTERESIS)
 VCC= 4.500
 MIN= 400.0E-03
 MAX= 2.250

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
586		839.7E-03	400.0E-03	2.250
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
586		919.7E-03	400.0E-03	2.250
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
586		999.7E-03	400.0E-03	2.250
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
586		1.080	400.0E-03	2.250
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
586		1.160	400.0E-03	2.250
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
586		1.240	400.0E-03	2.250

 VTP TEST (VT+)
 VCC= 6
 MIN= 2.950
 MAX= 4.200
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
519		3.160	2.950	4.200
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
519		3.200	2.950	4.200
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
519		3.240	2.950	4.200
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
519		3.280	2.950	4.200
INPUT PIN IS	11			
INST #	PIN	MEASURED	LT	GT
519		3.320	2.950	4.200
INPUT PIN IS	13			
INST #	PIN	MEASURED	LT	GT
519		3.360	2.950	4.200

 VTN TEST (VT-)
 VCC= 6
 MIN= 1.200
 MAX= 2.650
 PINS 1A, 2A, 3A, 4A, 5A, 6A

INPUT PIN IS	1			
INST #	PIN	MEASURED	LT	GT
567		2.141	1.200	2.650
INPUT PIN IS	3			
INST #	PIN	MEASURED	LT	GT
567		2.101	1.200	2.650
INPUT PIN IS	5			
INST #	PIN	MEASURED	LT	GT
567		2.061	1.200	2.650
INPUT PIN IS	9			
INST #	PIN	MEASURED	LT	GT
567		2.021	1.200	2.650

```

INPUT PIN IS      11
INST #  PIN  MEASURED      LT      GT
   567    1.981    1.200    2.650
INPUT PIN IS      13
INST #  PIN  MEASURED      LT      GT
   567    1.941    1.200    2.650

```

```

-----
          VH TEST (HYSTERESIS)
          VCC=      6
          MIN= 500.0E-03
          MAX=      3
-----

```

```

INPUT PIN IS      1
INST #  PIN  MEASURED      LT      GT
   586    1.019    500.0E-03    3
INPUT PIN IS      3
INST #  PIN  MEASURED      LT      GT
   586    1.099    500.0E-03    3
INPUT PIN IS      5
INST #  PIN  MEASURED      LT      GT
   586    1.179    500.0E-03    3
INPUT PIN IS      9
INST #  PIN  MEASURED      LT      GT
   586    1.259    500.0E-03    3
INPUT PIN IS     11
INST #  PIN  MEASURED      LT      GT
   586    1.339    500.0E-03    3
INPUT PIN IS     13
INST #  PIN  MEASURED      LT      GT
   586    1.419    500.0E-03    3

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   619    1  -4.000NA    -1.000UA    1.000UA
   622    1  2.000NA    -1.000UA    1.000UA
   627    3  -4.000NA    -1.000UA    1.000UA
   630    3  2.000NA    -1.000UA    1.000UA
   635    5  -4.000NA    -1.000UA    1.000UA
   638    5  2.000NA    -1.000UA    1.000UA
   643    9  -4.000NA    -1.000UA    1.000UA
   646    9  2.000NA    -1.000UA    1.000UA
   651   11  -4.000NA    -1.000UA    1.000UA
   654   11  2.000NA    -1.000UA    1.000UA
   659   13  -4.000NA    -1.000UA    1.000UA
   662   13  1.000NA    -1.000UA    1.000UA

```

```

-----
          ICC TEST
          VCC=      6
          ICC LIMIT MAX. 1.0UA @25C/-55C
          ICC LIMIT MAX. 40UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
   691   14      0 A      40.00UA
   698   14      0 A      40.00UA

```

```

EIR 1.....10    FCT    DCT
   0000000000    PASS    PASS    EOT

```



MIL-PRF-38534 CLASS K DATAPACK

Scanning Electron Microscopy (SEM) analysis



TANDEX TEST LABS, INC.

15849 Business Ctr. Dr. Irwindale CA. 91706

Phone: (626)-962-7166 Fax: (626)-960-6896

SCANNING ELECTRON MICROSCOPE ANALYSIS

DIE DEVICES

TTL Job # DDS-101-06-W

Date: June 18, 2018

Part Number: 54HC14

Part Type: CMOS LOGIC MICROCIRCUIT

Lot: Lot# 520361 D/C: 1810 WFR# 11

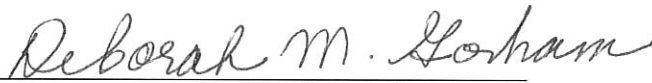
Quantity: Eight (8)

Purchase Order: SS139

Submitted by: _____


Jason A. Salinas
DPA/MTS

Approved by: _____


Deborah M. Gorham
Quality Assurance

TANDEX TEST LABS TTL Job # DDS-101-06-W

Summary

Eight (8) CMOS Logic Microcircuit P/N: 54HC14 were submitted by Die Devices for Scanning Electron Microscopy Analysis. This Analysis was performed in accordance with Mil-Std-883, Method 2018.6 The devices were assigned sample number 1 through 8 by Tandex Test Labs.

1. **Plasma Etching** Carbon Tetrafluoride Gas 92% and 8% Oxygen was used to remove the glassivation. This etching is destructive and uneven in the rates of glass removal in various areas of the die.
2. **SEM Inspection** was performed on all eight devices. All eight devices revealed adequate metallization coverage and met the requirements of MIL-STD-883, Method 2018.6. See DPA form on page 3 and figures 1 through 3, for typical photographs.

Conclusion: This lot is acceptable for use.

TANDEX TEST LABS TTL Job # DDS-101-06-W
SEM EXAMINATION

TTL Job No. DDS-101-06-W	Part Number 54HC14	Part Type CMOS Logic Microcircuit	Date May 24, 2018
Lot Date Code: WFR# 11 Lot# 520361 D/C: 1810	Sample Qty. 8	Serial Numbers 1 - 8	Test Specifications Mil-Std-883 Method 2018.6
Misc. ID No.	Qty. Accept 8	Qty. Reject 0	Qty. Suspect 0

Notes:

S/N	Investigation Findings / Comments	A/R/S
1	No Anomalies	A
2	No Anomalies	A
3	No Anomalies	A
4	No Anomalies	A
5	No Anomalies	A
6	No Anomalies	A
7	No Anomalies	A
8	No Anomalies	A

Each sample was inspected for the general metallization condition at a magnification between 1,000 X and 6,000 X over 25% of the total metallization (unless specified differently). Each sample was inspected from four (4) viewing directions at a magnification between 5,000 X and 20,000 X

Inspection required Yes: X No: Devices constructed with expanded Metallization Yes: X No:

Sample Glassivated Yes: X No: Dual Level Metallization Yes: No: X

Glassivation Removed Using: PLASMA ETCHING

Beam accelerating voltage 10kV to 20kV Viewing angle 45 deg



Technician Stamp:

TANDEX TEST LABS TTL Job # DDS-101-06-W

Photodocumentation

TANDEX TEST LABS TTL Job # DDS-101-06-W

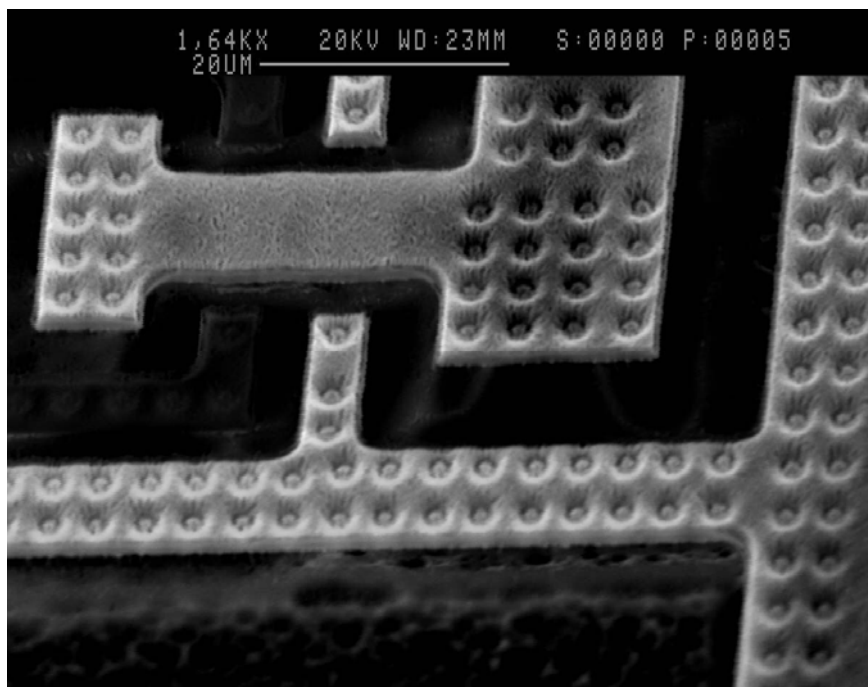


Fig: 1

Mag: 1,640X

S/N: 3

Description: SEM photograph of general metallization.

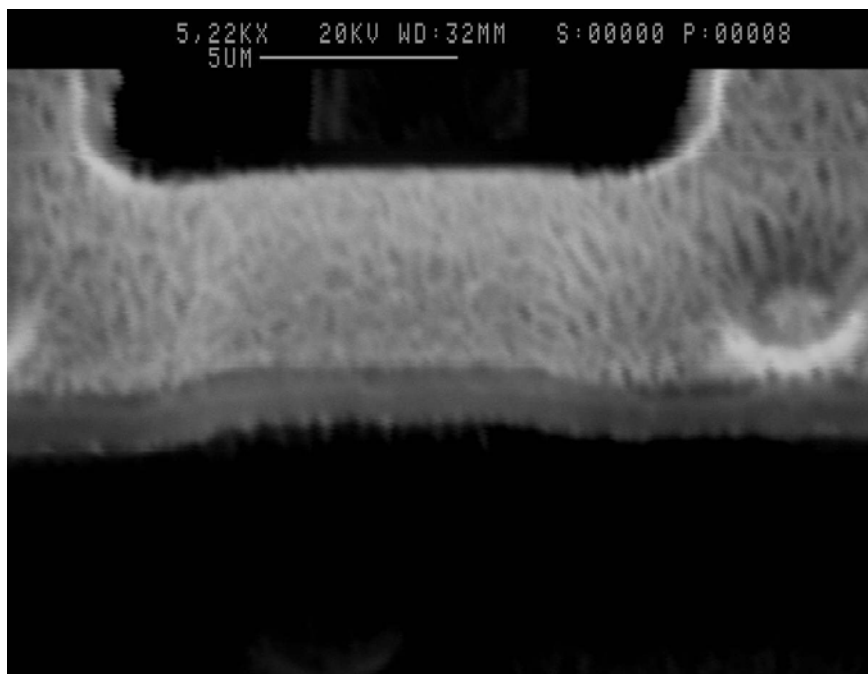


Fig: 2

Mag: 5,220X

S/N: 3

Description: SEM photograph of metallization typical step.

TANDEX TEST LABS TTL Job # DDS-101-06-W

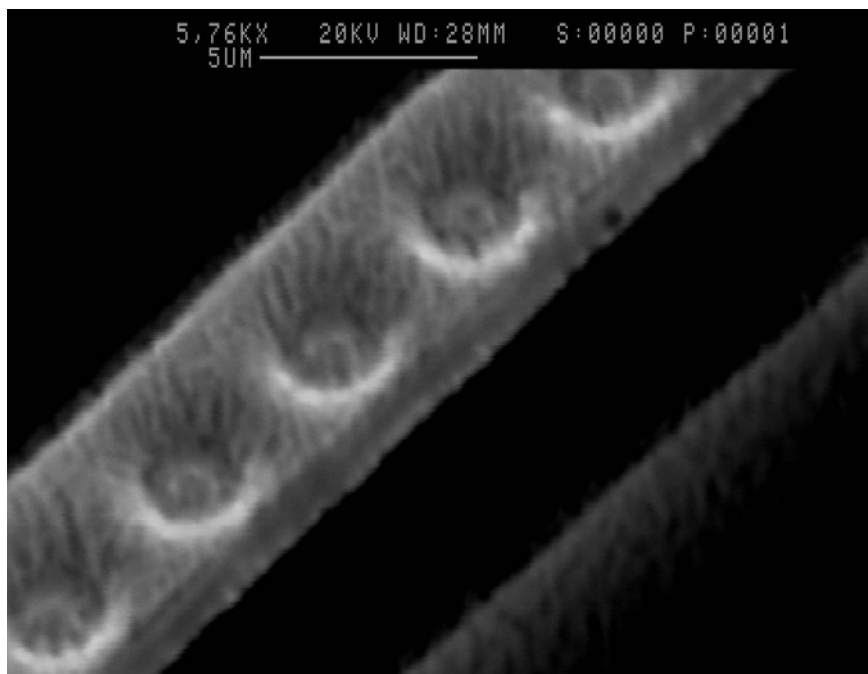


Fig: 3

Mag: 5,760X

S/N: 3

Description: SEM photograph of typical contact window device rotated 90°.

TANDEX TEST LABS, INC.

15849 Business Center. Dr., Irwindale CA. 91706

Phone: (626)962-7166 FAX: (626)960-6896

<http://www.tandexlabs.com>

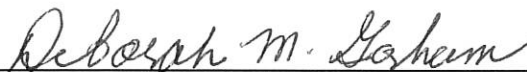
e-mail: via web site

Certificate of Conformance

CUSTOMER:	Silicon Supplies Limited 47 Wherry Road Norwich, NR1, 1WS United Kingdom Vat GB# 114 3513 56	DATE: June 18, 2018
TEST REPORT:	DDS-101-06-W	QUANTITY REQUIRED: 8
P.O. NUMBER:	SS139	QUANTITY PROCESSED: 8
DESCRIPTION:	CMOS LOGIC MICROCIRCUIT	QUANTITY PASSED: 8
PART NUMBER(S):	54HC14	QUANTITY FAILED: 0
MFG PART NUMBER	54HC14	QUANTITY SHIPPING: 8
LOT / DATE CODE:	LOT# 520361 WFR# 11 D/C: 1810	
MFG:	SILICON SUPPLIES	

METHOD OF TESTING: MIL-STD-883 METHOD 2018.6

I hereby certify that the subject components have been processed and inspected in accordance with instructions with specifications referenced in your purchase order. Physical records and/or data pertinent to applicable military, proprietary, and/or commercial specifications are on file and available upon request for inspection at this facility.





Deborah M. Gorham
QUALITY ASSURANCE