



Reliability Report – 54HC74

High Speed CMOS Logic - Dual D-Type Flip-Flop with Set and Reset

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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- Scanning Electron Microscopy (SEM) analysis.





MIL-PRF-38534 CLASS K DATAPACK

Certificate of Conformance



TANDEX TEST LABS, INC.

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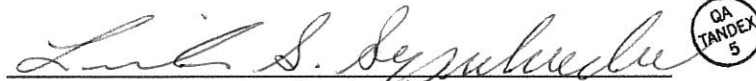
e-mail: via web site

Certificate of Conformance

CUSTOMER:	SILICON SUPPLIES LIMITED	DATE: AUGUST 14, 2018
	47 WHERRY ROAD NORWICH, NR1, 1WS UNITED KINGDOM VAT GB#114 3513 56	
TEST REPORT:	DDS-101-07-A	QUANTITY RECEIVED: 30 DIE
P.O. NUMBER:	SS139	QUANTITY REQUIRED: 10/5/8
DESCRIPTION:	CMOS LOGIC MICROCIRCUIT	QUANTITY PROCESSED: 17
PART NUMBER(S):	54HC74	QUANTITY PASSED: 17
P/N: AS RECEIVED / MFG. PART NUMBER:	54HC74	QUANTITY FAILED: 0
LOT / DATE CODE:	1810 LOT# 220032 WF21	
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-101-07-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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15849 BUSINESS CENTER DRIVE, IRVINDALE, CA. 91706 PH: (626)962-7166 FAX: (626) 960-6896

PROCESS FLOW CHART

FLOW NUMBER: DDS-101-07-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC74 P/N AS RECEIVED: 54HC74
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-07-A
 LDC AS RECEIVED: 1810 LOT# 220032 WF21 QUANTITY RECEIVED : 30 (DIE)
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED : 10/5/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

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 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 checked="" type="checkbox"/> <input type="checkbox"/> ITAR <input type="checkbox"/> <input type="checkbox"/> _____ OTHER SPECIFIED							QA TANDEX 5
02	QCI		TANDEX QUALITY CONTROL INSPECTION. FLOW APPROVED BY: <u>JMI</u> ON: <u>3/26/18</u>							QA TANDEX 7
03	RCV	P-1070	VERIFY PART NUMBER. ENTER INTO INCOMING LOG. <u>X</u> CUSTOMER COUNT	30			3/26/18			QA TANDEX 5
SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.		
04	VIS	P-1041	PERFORM 100% DIE VISUAL PER MIL-STD-883 METHOD 2010 AND MIL-PRF-38534 PARA C.3.3.2. <i>* Damaged metallization on die, used for SEM.</i> EQUIPMENT USED: <u>olympus</u> ASSET #: <u>20041</u>	30	1	29	4/5/18			TTL
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> SEM TRANSFER TO DDS-101-07-W MIL-STD-883 METHOD 2018 * Package Type: 14 PIN DIP	10+2 5 8	0 0 0	10+2 5 8	4/13/18 4/13/18 4/5/18			TTL 30 TTL 30 TTL
		P-4010	WIRE BOND: Utilize 1 Mil Au Wire (.001) 1 Mil Au bonder <u>Mech-El</u> Asset #: <u>20060</u> Gold Wire: Lot#: <u>9001882915</u> Exp. Date: <u>3/21/2019</u>	17	0	17	4/14/18			TTL 30

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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-07-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC74 P/N AS RECEIVED: 54HC74
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-07-A
 LDC AS RECEIVED: 1810 LOT# 220032 WF21 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>SMZ NIKON 645</u> ASSET #: <u>30663</u>	17	Q	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>10:15am - 4-16-18</u> Actual time out: <u>10:40am - 4-17-18</u> FURNACE LDC STAMP Actual temp: <u>125°C</u> <u>1815</u> TTL 30	10+2	Q	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>30340</u> +25°C TEST FIXTURE: <u>1377/1201</u> SOFTWARE ID: <u>54HC74 REV N/A</u>	10+2	Ø	10+2	4/24/18	QA HAND 7
ESD MAT DUE DATE:		4/27/18						
09	TEMP		PERFORM TEMPERATURE CYCLING PER MIL-STD-883 METHOD 1010 CONDITION C & MIL-PRF-38534 C.3.3.3. TEN (10) CYCLES TA = -65°C +0/-10 to +150°C +15/-0 10 MINUTES AT EXTREMES DATE IN TIME IN DATE OUT TIME OUT EQUIPMENT USED: <u>TENNEY</u> ASSET #: <u>30369</u> EQUIPMENT USED: <u>OMEGA HH309A</u> ASSET #: <u>30672</u> <u>3167</u>	10+2	Ø	10+2	4/26/18 5:07AM	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>TRioTech</u> ASSET #: <u>30260</u>	10+2	Ø	10+2	5/5/18	TTL 52
ESD MAT DUE DATE:		5/27/18						
11	SER		SERIALIZE -S/N: 01-10- S/N: <u>01-12</u> <u>4/5/16/18</u>	10+2	Ø	10+2	5/17/18	TTL 49
ESD MAT DUE DATE:		5/27/18						

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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-07-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC74 P/N AS RECEIVED: 54HC74
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-07-A
 LDC AS RECEIVED: 1810 LOT# 220032 WF21 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 -55°C +125°C EQUIPMENT USED: <u>Sentry</u> , ASSET#: <u>30340</u> TEST FIXTURE: <u>1377/1201</u> SOFTWARE ID: <u>54HC74</u> REV <u>N/A</u> TEMPERATURE SOAK <u>10</u> SEC.	12 12 12	∅ ∅ ∅	12 12 12	5/24/18 5/24/18 5/24/18	TTL 10 TTL 10 TTL 10
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>31276</u> BURN-IN OVEN #: <u>21</u>	12 12	∅ ∅	12 12	5/31/18 5:20am 6/11/18 5:35am	TTL 13 TTL 13
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 -55°C +125°C TEST +25°C WITHIN 96 HOURS EQUIPMENT USED: <u>Sentry</u> , ASSET#: <u>30340</u> TEST FIXTURE: <u>1377/1201</u> SOFTWARE ID: <u>54HC74</u> REV <u>N/A</u> TEMPERATURE SOAK <u>10</u> SEC.	12 12 12	0 0 0	12 12 12	4/11/18 4/11/18 4/11/18	TTL 25 TTL 25 TTL 25
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>6/21/18</u>				6/21/18	QA TANDEX 5

ESD MAT DUE DATE:
5/27/18.

ESD MAT DUE DATE:
6/27/18.

ESD MAT DUE DATE:
6/27/18.

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-07-A

TEMPERATURE TA = +125°C Min

PART NUMBER 54HC74

TEMP. METER # 31368

DATE CODE 1810 LOT# 220032 WF21

VOLTAGE VCC = +5VDC

BURN-IN TIME 240 hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 31594

BOARD# 31276

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
5/31/18	8:20AM	VCC = +5VDC	ICC = 5mA	125.5°C	CM	
6/1/18	10:00AM	VCC = +5VDC	ICC = 5mA	126.9°C	CM	
6/4/18	NO	DATA	TAKEN			
6/5/18	5:45AM	VCC = +5VDC	ICC = 5mA	127.0°C	CM	
6/6/18	6:05AM	VCC = +5VDC	ICC = 5mA	126.7°C	CM	
6/7/18	1:30PM	VCC = 15VDC +5VDC	ICC = 5mA	126.4°C	CM	
6/8/18	6:20AM	VCC = +5VDC	ICC = 5mA	126.1°C	CM	
6/11/18	5:35AM	VCC = +5VDC	ICC = 5mA	126.8°C	CM	

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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-07-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC74 P/N AS RECEIVED: 54HC74
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-07-A
 LDC AS RECEIVED: 1810 LOT# 220032 WF21 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) DATE IN: 6/25/18 T = 1000 HRS (min) TIME IN: 6:00 AM DATE OUT: 8/6/18 TIME OUT: 8:00 AM BURN-IN BOARD # / DESC: 31273 BURN-IN OVEN #: 21	12	0	12		TTL 13
ESD MAT DUE DATE: 8/27/18								
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 TTL 35 -55°C 12 0 12 8/6/18 TTL 35 +125°C 12 0 12 8/6/18 TTL 35 TEST +25°C WITHIN 96 HOURS EQUIPMENT USED: Sentry ASSET#: 1093 TEST FIXTURE: 1377/1201 SOFTWARE ID: 54HC74 REV					
ESD MAT DUE DATE: 8/27/18								
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: DAGE ASSET #: 30785	5	0	5	7/17/18 #4	DA TANDEX 7
19	SEM		PULLED 8 DEVICES AT SEQ. 05 AND TRANSFERRED TO: DDS-101-07-W	8	0	8	4/5/18	DA TANDEX 7

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-07-A

TEMPERATURE TA = +125°C Min

PART NUMBER 54HC74

TEMP. METER # 31368

DATE CODE 1810 LOT#220032 WF21

VOLTAGE VCC = +5VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 31110

BOARD# 31273

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

JOB NUMBER DDS-101-07-A

TEMPERATURE TA = +125°C Min

PART NUMBER 54HC74

TEMP. METER # 31368

DATE CODE 1810 LOT#226032 WF21

VOLTAGE VCC = +5VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 31110

BOARD# 31273

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	6:25am	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	TAKEN			

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-07A

TEMPERATURE TA = +125°C Min

PART NUMBER 54HC74

TEMP. METER # 31368

DATE CODE 1810 LOT# 220032 WF21

VOLTAGE VCC = +5VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 31110

BOARD# 31273

OVEN# 21

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

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-07-A

TEMPERATURE TA = +125'C Min

PART NUMBER 54HC74

TEMP. METER# 31368

DATE CODE 1810 LOT#220632 WF21

VOLTAGE VCC = +5 VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

ΘJC= N/A

POWER SUPPLY# 31110

BOARD# 31273

OVEN# 21

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

BOND PULL
BOND STRENGTH TESTING

TTL Job No. DDS-101-07-A	Part Number 54HC74	Part Type CMOS LOGIC MICROCIRCUIT	Date July 17, 2018
Lot Date Code LOT# 220032 W# 21 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	4.0	G	1	3.5	G	1	4.0	G	1	3.5	G	1		
2	4.0	G	2	4.0	G	2	4.5	G	2	5.0	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-101-07-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC74 P/N AS RECEIVED: 54HC74
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-07-A
 LDC AS RECEIVED: 1810 LOT# 220032 WF21 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	8/14/18	QA TANDEX 7
21	PKG		USE ORIGINAL OR TANDEX PACKAGING.	17	0	17	8/14/18	QA TANDEX 7
22	QAR	P-1213	TANDEX QUALITY ASSURANCE REVIEW. SHIP VIA: * Includes: 10 Accept 5 Bond Pull samples 2 Spares. SHIP / BILL TO: DIE DEVICES 47 WHERRY ROAD NORWICH, NRI, IWS UNITED KINGDOM VAT #* 8 pcs transferred to GB#114 3513 56 DDS-101-07-W for SEM.	17			8/14/18	QA TANDEX 7 QA TANDEX 5



MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at -55°C



STAT1 05/25/11 07:12
 TEST PROGRAM 4HC74 S/N 1
 DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-690.0MV	-1.500 V	-100.0MV
54	2	-690.0MV	-1.500 V	-100.0MV
54	3	-690.0MV	-1.500 V	-100.0MV
54	4	-690.0MV	-1.500 V	-100.0MV
54	10	-690.0MV	-1.500 V	-100.0MV
54	11	-690.0MV	-1.500 V	-100.0MV
54	12	-690.0MV	-1.500 V	-100.0MV
54	13	-690.0MV	-1.500 V	-100.0MV
54	14	-570.0MV	-1.500 V	-100.0MV
64	5	610.0MV	100.0MV	1.500 V
64	6	610.0MV	100.0MV	1.500 V
64	8	610.0MV	100.0MV	1.500 V
64	9	610.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-10.00MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-10.00MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

 VOH1 TEST
 VCC= 4.500
 VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

 VOH2 TEST

VCC= 4.500
VOH2 LIMIT 3.980

INST # PIN MEASURED LT GT
215 5 4.210 V 3.980 V
221 9 4.250 V 3.980 V
230 6 4.240 V 3.980 V
236 8 4.230 V 3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST # PIN MEASURED LT GT
257 5 -8.000MV 100.0MV
263 9 -10.000MV 100.0MV
272 6 -8.000MV 100.0MV
278 8 -10.000MV 100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST # PIN MEASURED LT GT
301 5 134.0MV 260.0MV
307 9 90.000MV 260.0MV
316 6 86.000MV 260.0MV
322 8 106.0MV 260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST # PIN MEASURED LT GT
171 5 5.970 V 5.900 V
177 9 5.970 V 5.900 V
186 6 5.970 V 5.900 V
192 8 5.970 V 5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST # PIN MEASURED LT GT
215 5 5.730 V 5.480 V
221 9 5.760 V 5.480 V
230 6 5.760 V 5.480 V
236 8 5.740 V 5.480 V

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST # PIN MEASURED LT GT
257 5 -6.000MV 100.0MV
263 9 -6.000MV 100.0MV
272 6 -8.000MV 100.0MV
278 8 -6.000MV 100.0MV

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-----
VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03
-----

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INST #	PIN	MEASURED	LT	GT
301	5	122.0MV		260.0MV
307	9	92.00MV		260.0MV
316	6	90.00MV		260.0MV
322	8	116.0MV		260.0MV

```

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

```

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

```

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

```

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 2

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-680.0MV	-1.500 V	-100.0MV
54	2	-680.0MV	-1.500 V	-100.0MV
54	3	-680.0MV	-1.500 V	-100.0MV
54	4	-680.0MV	-1.500 V	-100.0MV
54	10	-680.0MV	-1.500 V	-100.0MV
54	11	-680.0MV	-1.500 V	-100.0MV
54	12	-680.0MV	-1.500 V	-100.0MV
54	13	-690.0MV	-1.500 V	-100.0MV
54	14	-560.0MV	-1.500 V	-100.0MV
64	5	600.0MV	100.0MV	1.500 V
64	6	600.0MV	100.0MV	1.500 V
64	8	600.0MV	100.0MV	1.500 V
64	9	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-10.00MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.230 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	114.0MV		260.0MV
307	9	92.00MV		260.0MV
316	6	90.00MV		260.0MV
322	8	108.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.980 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.760 V	5.480 V	
236	8	5.730 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	120.0MV		260.0MV
307	9	96.00MV		260.0MV
316	6	92.00MV		260.0MV
322	8	116.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-4.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 3

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-540.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.190 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-10.00MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	140.0MV		260.0MV
307	9	100.0MV		260.0MV
316	6	96.00MV		260.0MV
322	8	124.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.980 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.710 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	144.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	98.000MV		260.0MV
322	8	132.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-4.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 4

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-720.0MV	-1.500 V	-100.0MV
54	2	-720.0MV	-1.500 V	-100.0MV
54	3	-720.0MV	-1.500 V	-100.0MV
54	4	-720.0MV	-1.500 V	-100.0MV
54	10	-720.0MV	-1.500 V	-100.0MV
54	11	-720.0MV	-1.500 V	-100.0MV
54	12	-720.0MV	-1.500 V	-100.0MV
54	13	-720.0MV	-1.500 V	-100.0MV
54	14	-600.0MV	-1.500 V	-100.0MV
64	5	630.0MV	100.0MV	1.500 V
64	6	630.0MV	100.0MV	1.500 V
64	8	630.0MV	100.0MV	1.500 V
64	9	630.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.260 V	3.980 V	
230	6	4.260 V	3.980 V	
236	8	4.240 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	112.0MV		260.0MV
307	9	86.00MV		260.0MV
316	6	84.00MV		260.0MV
322	8	102.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.980 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.740 V	5.480 V	
221	9	5.770 V	5.480 V	
230	6	5.770 V	5.480 V	
236	8	5.750 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	120.0MV		260.0MV
307	9	90.00MV		260.0MV
316	6	86.00MV		260.0MV
322	8	110.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-4.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
 TEST PROGRAM 4HC74 S/N 5
 DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-550.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

 VOH1 TEST
 VCC= 4.500
 VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.460 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.220 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	114.0MV		260.0MV
307	9	96.00MV		260.0MV
316	6	94.00MV		260.0MV
322	8	110.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.980 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.730 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272 6 -6.000MV 100.0MV
 278 8 -6.000MV 100.0MV

 VOL2 TEST
 VCC= 6
 VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	120.0MV		260.0MV
307	9	100.0MV		260.0MV
316	6	96.000MV		260.0MV
322	8	118.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

 ICC TEST
 VCC= 6
 ICC LIMIT MAX. 2.0UA @25C/-55C
 ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 6

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-540.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	580.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	580.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.460 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	120.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	120.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.720 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-8.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	128.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	128.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-4.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 7

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-680.0MV	-1.500 V	-100.0MV
54	2	-680.0MV	-1.500 V	-100.0MV
54	3	-680.0MV	-1.500 V	-100.0MV
54	4	-680.0MV	-1.500 V	-100.0MV
54	10	-680.0MV	-1.500 V	-100.0MV
54	11	-680.0MV	-1.500 V	-100.0MV
54	12	-680.0MV	-1.500 V	-100.0MV
54	13	-680.0MV	-1.500 V	-100.0MV
54	14	-550.0MV	-1.500 V	-100.0MV
64	5	600.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	600.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	114.0MV		260.0MV
307	9	98.00MV		260.0MV
316	6	96.00MV		260.0MV
322	8	128.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.980 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.720 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	114.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	98.000MV		260.0MV
322	8	128.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 8

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-540.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	580.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	580.0MV	100.0MV	1.500 V

FUNCTIONAL TEST

VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.190 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	106.0MV		260.0MV
307	9	98.00MV		260.0MV
316	6	96.00MV		260.0MV
322	8	150.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.720 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	118.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	98.000MV		260.0MV
322	8	136.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-4.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	8.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 9

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-550.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.200 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	122.0MV		260.0MV
307	9	98.00MV		260.0MV
316	6	94.00MV		260.0MV
322	8	136.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	122.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	98.000MV		260.0MV
322	8	146.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	10.00NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 10

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-680.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-680.0MV	-1.500 V	-100.0MV
54	13	-680.0MV	-1.500 V	-100.0MV
54	14	-550.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.200 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	116.0MV		260.0MV
307	9	96.00MV		260.0MV
316	6	92.00MV		260.0MV
322	8	132.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.720 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	118.0MV		260.0MV
307	9	100.0MV		260.0MV
316	6	96.000MV		260.0MV
322	8	160.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-4.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	10.00NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 11

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-550.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.460 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.150 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	122.0MV		260.0MV
307	9	98.00MV		260.0MV
316	6	94.00MV		260.0MV
322	8	188.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.980 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.670 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	118.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	96.000MV		260.0MV
322	8	172.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	23.00NA		2.000UA
454	14	3.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 12

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-700.0MV	-1.500 V	-100.0MV
54	2	-700.0MV	-1.500 V	-100.0MV
54	3	-700.0MV	-1.500 V	-100.0MV
54	4	-700.0MV	-1.500 V	-100.0MV
54	10	-700.0MV	-1.500 V	-100.0MV
54	11	-700.0MV	-1.500 V	-100.0MV
54	12	-700.0MV	-1.500 V	-100.0MV
54	13	-700.0MV	-1.500 V	-100.0MV
54	14	-580.0MV	-1.500 V	-100.0MV
64	5	630.0MV	100.0MV	1.500 V
64	6	620.0MV	100.0MV	1.500 V
64	8	620.0MV	100.0MV	1.500 V
64	9	620.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2

VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.250 V	3.980 V	
230	6	4.250 V	3.980 V	
236	8	4.220 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	108.0MV		260.0MV
307	9	90.00MV		260.0MV
316	6	86.00MV		260.0MV
322	8	118.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.750 V	5.480 V	
221	9	5.770 V	5.480 V	
230	6	5.760 V	5.480 V	
236	8	5.730 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	106.0MV		260.0MV
307	9	92.000MV		260.0MV
316	6	88.000MV		260.0MV
322	8	122.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	18.00NA		2.000UA
454	14	3.000NA		2.000UA

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



MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at 25°C



STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 1

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-650.0MV	-1.500 V	-100.0MV
54	2	-650.0MV	-1.500 V	-100.0MV
54	3	-650.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-650.0MV	-1.500 V	-100.0MV
54	11	-650.0MV	-1.500 V	-100.0MV
54	12	-650.0MV	-1.500 V	-100.0MV
54	13	-650.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	560.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST

VCC= 4.500
VOH2 LIMIT 3.980

INST # PIN MEASURED LT GT
215 5 4.210 V 3.980 V
221 9 4.230 V 3.980 V
230 6 4.220 V 3.980 V
236 8 4.210 V 3.980 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST # PIN MEASURED LT GT
257 5 -10.00MV 100.0MV
263 9 -8.000MV 100.0MV
272 6 -8.000MV 100.0MV
278 8 -8.000MV 100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST # PIN MEASURED LT GT
301 5 116.0MV 260.0MV
307 9 104.0MV 260.0MV
316 6 104.0MV 260.0MV
322 8 122.0MV 260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST # PIN MEASURED LT GT
171 5 5.970 V 5.900 V
177 9 5.970 V 5.900 V
186 6 5.970 V 5.900 V
192 8 5.970 V 5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST # PIN MEASURED LT GT
215 5 5.720 V 5.480 V
221 9 5.740 V 5.480 V
230 6 5.730 V 5.480 V
236 8 5.710 V 5.480 V

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST # PIN MEASURED LT GT
257 5 -6.000MV 100.0MV
263 9 -6.000MV 100.0MV
272 6 -6.000MV 100.0MV
278 8 -6.000MV 100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	124.0MV		260.0MV
307	9	110.0MV		260.0MV
316	6	106.0MV		260.0MV
322	8	132.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-4.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
 TEST PROGRAM 4HC74 S/N 2
 DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-530.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

 VOH1 TEST
 VCC= 4.500
 VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	120.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	124.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	124.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	134.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-4.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 3

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-530.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	580.0MV	100.0MV	1.500 V
64	9	580.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	118.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	120.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272 6 -6.000MV 100.0MV
278 8 -8.000MV 100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	124.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	130.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-4.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 4

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-10.00MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	114.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	120.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272 6 -6.000MV 100.0MV
278 8 -6.000MV 100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	120.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	130.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
 TEST PROGRAM 4HC74 S/N 5
 DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-650.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-530.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

 VOH1 TEST
 VCC= 4.500
 VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	124.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	118.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.980 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.720 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	124.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	128.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-4.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 6

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-650.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.980 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.190 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-10.00MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	138.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	122.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.700 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-8.000MV	100.0MV
278	8	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	140.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	130.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-4.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-4.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	1.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 7

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-650.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-530.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.200 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	128.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	122.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.710 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-6.000MV		100.0MV

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272 6 -6.000MV      100.0MV
278 8 -6.000MV      100.0MV

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-----
VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03
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INST #  PIN  MEASURED      LT      GT
301     5   132.0MV      260.0MV
307     9   108.0MV      260.0MV
316     6   104.0MV      260.0MV
322     8   132.0MV      260.0MV

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

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```

INST #  PIN  MEASURED      LT      GT
356     1  -3.000NA     -100.0NA  100.0NA
359     1   2.000NA     -100.0NA  100.0NA
364     2  -5.000NA     -100.0NA  100.0NA
367     2   2.000NA     -100.0NA  100.0NA
372     3  -5.000NA     -100.0NA  100.0NA
375     3   2.000NA     -100.0NA  100.0NA
380     4  -5.000NA     -100.0NA  100.0NA
383     4   2.000NA     -100.0NA  100.0NA
388    10  -5.000NA     -100.0NA  100.0NA
391    10   2.000NA     -100.0NA  100.0NA
396    11  -4.000NA     -100.0NA  100.0NA
399    11   2.000NA     -100.0NA  100.0NA
404    12  -5.000NA     -100.0NA  100.0NA
407    12   2.000NA     -100.0NA  100.0NA
412    13  -5.000NA     -100.0NA  100.0NA
415    13   2.000NA     -100.0NA  100.0NA

```

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-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
447    14   3.000NA      2.000UA
454    14   2.000NA      2.000UA

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

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STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 8

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.980 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.200 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.200 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	130.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	138.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.980 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.710 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.700 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-8.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	130.0MV		260.0MV
307	9	106.0MV		260.0MV
316	6	106.0MV		260.0MV
322	8	144.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-4.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 9

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-650.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	120.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	120.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-4.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	128.0MV		260.0MV
307	9	110.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	130.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-4.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-4.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 10

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-650.0MV	-1.500 V	-100.0MV
54	3	-650.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-650.0MV	-1.500 V	-100.0MV
54	12	-650.0MV	-1.500 V	-100.0MV
54	13	-650.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST

VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.200 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	128.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	98.00MV		260.0MV
322	8	120.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.720 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-8.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	124.0MV		260.0MV
307	9	106.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	128.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-4.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	1.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 11

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-650.0MV	-1.500 V	-100.0MV
54	3	-650.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-650.0MV	-1.500 V	-100.0MV
54	13	-650.0MV	-1.500 V	-100.0MV
54	14	-530.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.200 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	134.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	118.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.710 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.720 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-4.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	134.0MV		260.0MV
307	9	110.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	128.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	2.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 12

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-650.0MV	-1.500 V	-100.0MV
54	2	-650.0MV	-1.500 V	-100.0MV
54	3	-650.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-650.0MV	-1.500 V	-100.0MV
54	11	-650.0MV	-1.500 V	-100.0MV
54	12	-650.0MV	-1.500 V	-100.0MV
54	13	-650.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	580.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.200 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	120.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	120.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	126.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	130.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	2.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	2.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA
412	13	-4.000NA	-100.0NA	100.0NA
415	13	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	3.000NA		2.000UA
454	14	2.000NA		2.000UA

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



MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at +125°C



STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 1

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-620.0MV	-1.500 V	-100.0MV
54	2	-620.0MV	-1.500 V	-100.0MV
54	3	-620.0MV	-1.500 V	-100.0MV
54	4	-610.0MV	-1.500 V	-100.0MV
54	10	-620.0MV	-1.500 V	-100.0MV
54	11	-620.0MV	-1.500 V	-100.0MV
54	12	-620.0MV	-1.500 V	-100.0MV
54	13	-620.0MV	-1.500 V	-100.0MV
54	14	-480.0MV	-1.500 V	-100.0MV
64	5	540.0MV	100.0MV	1.500 V
64	6	530.0MV	100.0MV	1.500 V
64	8	530.0MV	100.0MV	1.500 V
64	9	530.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST

VCC= 4.500
VOH2 LIMIT 3.700

INST # PIN MEASURED LT GT
215 5 4.180 V 3.700 V
221 9 4.210 V 3.700 V
230 6 4.200 V 3.700 V
236 8 4.180 V 3.700 V

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST # PIN MEASURED LT GT
257 5 -8.000MV 100.0MV
263 9 -6.000MV 100.0MV
272 6 -8.000MV 100.0MV
278 8 -8.000MV 100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST # PIN MEASURED LT GT
301 5 146.0MV 400.0MV
307 9 118.0MV 400.0MV
316 6 114.0MV 400.0MV
322 8 148.0MV 400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST # PIN MEASURED LT GT
171 5 5.970 V 5.900 V
177 9 5.970 V 5.900 V
186 6 5.970 V 5.900 V
192 8 5.970 V 5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST # PIN MEASURED LT GT
215 5 5.700 V 5.200 V
221 9 5.710 V 5.200 V
230 6 5.710 V 5.200 V
236 8 5.680 V 5.200 V

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST # PIN MEASURED LT GT
257 5 -6.000MV 100.0MV
263 9 -6.000MV 100.0MV
272 6 -6.000MV 100.0MV
278 8 -6.000MV 100.0MV

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-----
VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03
-----

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INST #	PIN	MEASURED	LT	GT
301	5	142.0MV		400.0MV
307	9	126.0MV		400.0MV
316	6	120.0MV		400.0MV
322	8	156.0MV		400.0MV

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-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
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INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-1.000UA	1.000UA
359	1	2.000NA	-1.000UA	1.000UA
364	2	-4.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-4.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

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-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C
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INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	0 A		80.00UA

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

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STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 2

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-640.0MV	-1.500 V	-100.0MV
54	2	-640.0MV	-1.500 V	-100.0MV
54	3	-640.0MV	-1.500 V	-100.0MV
54	4	-640.0MV	-1.500 V	-100.0MV
54	10	-640.0MV	-1.500 V	-100.0MV
54	11	-640.0MV	-1.500 V	-100.0MV
54	12	-640.0MV	-1.500 V	-100.0MV
54	13	-640.0MV	-1.500 V	-100.0MV
54	14	-510.0MV	-1.500 V	-100.0MV
64	5	560.0MV	100.0MV	1.500 V
64	6	550.0MV	100.0MV	1.500 V
64	8	560.0MV	100.0MV	1.500 V
64	9	550.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.200 V	3.700 V	
221	9	4.220 V	3.700 V	
230	6	4.220 V	3.700 V	
236	8	4.190 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	134.0MV		400.0MV
307	9	108.0MV		400.0MV
316	6	104.0MV		400.0MV
322	8	134.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.700 V	5.200 V	
221	9	5.730 V	5.200 V	
230	6	5.730 V	5.200 V	
236	8	5.700 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-8.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	140.0MV		400.0MV
307	9	116.0MV		400.0MV
316	6	110.0MV		400.0MV
322	8	146.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	2.000NA	-1.000UA	1.000UA
364	2	-4.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	-100.0NA		80.00UA
454	14	0 A		80.00UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 3

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-640.0MV	-1.500 V	-100.0MV
54	2	-640.0MV	-1.500 V	-100.0MV
54	3	-640.0MV	-1.500 V	-100.0MV
54	4	-640.0MV	-1.500 V	-100.0MV
54	10	-640.0MV	-1.500 V	-100.0MV
54	11	-640.0MV	-1.500 V	-100.0MV
54	12	-640.0MV	-1.500 V	-100.0MV
54	13	-640.0MV	-1.500 V	-100.0MV
54	14	-510.0MV	-1.500 V	-100.0MV
64	5	560.0MV	100.0MV	1.500 V
64	6	560.0MV	100.0MV	1.500 V
64	8	560.0MV	100.0MV	1.500 V
64	9	560.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.700 V	
221	9	4.220 V	3.700 V	
230	6	4.220 V	3.700 V	
236	8	4.190 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	120.0MV		400.0MV
307	9	108.0MV		400.0MV
316	6	104.0MV		400.0MV
322	8	132.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.710 V	5.200 V	
221	9	5.730 V	5.200 V	
230	6	5.730 V	5.200 V	
236	8	5.700 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-8.000MV	100.0MV
278	8	-8.000MV	100.0MV

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VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03
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INST #	PIN	MEASURED	LT	GT
301	5	128.0MV		400.0MV
307	9	112.0MV		400.0MV
316	6	106.0MV		400.0MV
322	8	142.0MV		400.0MV

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IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
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INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-4.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

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ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C
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INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	-100.0NA		80.00UA

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

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STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 4

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-620.0MV	-1.500 V	-100.0MV
54	2	-620.0MV	-1.500 V	-100.0MV
54	3	-620.0MV	-1.500 V	-100.0MV
54	4	-610.0MV	-1.500 V	-100.0MV
54	10	-620.0MV	-1.500 V	-100.0MV
54	11	-610.0MV	-1.500 V	-100.0MV
54	12	-620.0MV	-1.500 V	-100.0MV
54	13	-620.0MV	-1.500 V	-100.0MV
54	14	-480.0MV	-1.500 V	-100.0MV
64	5	530.0MV	100.0MV	1.500 V
64	6	530.0MV	100.0MV	1.500 V
64	8	530.0MV	100.0MV	1.500 V
64	9	530.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.980 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-10.00MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.190 V	3.700 V	
221	9	4.210 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.180 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	136.0MV		400.0MV
307	9	116.0MV		400.0MV
316	6	116.0MV		400.0MV
322	8	144.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.980 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.690 V	5.200 V	
221	9	5.710 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.680 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	148.0MV		400.0MV
307	9	124.0MV		400.0MV
316	6	120.0MV		400.0MV
322	8	162.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-1.000UA	1.000UA
359	1	2.000NA	-1.000UA	1.000UA
364	2	-4.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-4.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	-100.0NA		80.00UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 5

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-640.0MV	-1.500 V	-100.0MV
54	2	-640.0MV	-1.500 V	-100.0MV
54	3	-640.0MV	-1.500 V	-100.0MV
54	4	-640.0MV	-1.500 V	-100.0MV
54	10	-640.0MV	-1.500 V	-100.0MV
54	11	-640.0MV	-1.500 V	-100.0MV
54	12	-640.0MV	-1.500 V	-100.0MV
54	13	-640.0MV	-1.500 V	-100.0MV
54	14	-510.0MV	-1.500 V	-100.0MV
64	5	550.0MV	100.0MV	1.500 V
64	6	560.0MV	100.0MV	1.500 V
64	8	550.0MV	100.0MV	1.500 V
64	9	550.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.980 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-10.00MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.190 V	3.700 V	
221	9	4.220 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.180 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	140.0MV		400.0MV
307	9	114.0MV		400.0MV
316	6	108.0MV		400.0MV
322	8	140.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.700 V	5.200 V	
221	9	5.720 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.680 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	144.0MV		400.0MV
307	9	122.0MV		400.0MV
316	6	114.0MV		400.0MV
322	8	154.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	2.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-4.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	-100.0NA		80.00UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 6

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-630.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-630.0MV	-1.500 V	-100.0MV
54	13	-630.0MV	-1.500 V	-100.0MV
54	14	-490.0MV	-1.500 V	-100.0MV
64	5	550.0MV	100.0MV	1.500 V
64	6	540.0MV	100.0MV	1.500 V
64	8	550.0MV	100.0MV	1.500 V
64	9	540.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.150 V	3.700 V	
221	9	4.210 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.180 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-10.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	170.0MV		400.0MV
307	9	114.0MV		400.0MV
316	6	110.0MV		400.0MV
322	8	140.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.680 V	5.200 V	
221	9	5.720 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.680 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	158.0MV		400.0MV
307	9	122.0MV		400.0MV
316	6	118.0MV		400.0MV
322	8	162.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-4.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	0 A		80.00UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 7

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-630.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-630.0MV	-1.500 V	-100.0MV
54	13	-630.0MV	-1.500 V	-100.0MV
54	14	-490.0MV	-1.500 V	-100.0MV
64	5	550.0MV	100.0MV	1.500 V
64	6	550.0MV	100.0MV	1.500 V
64	8	550.0MV	100.0MV	1.500 V
64	9	550.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-10.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.170 V	3.700 V	
221	9	4.210 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.190 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	152.0MV		400.0MV
307	9	114.0MV		400.0MV
316	6	112.0MV		400.0MV
322	8	140.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.680 V	5.200 V	
221	9	5.720 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.680 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	160.0MV		400.0MV
307	9	120.0MV		400.0MV
316	6	116.0MV		400.0MV
322	8	160.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	2.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	-100.0NA		80.00UA
454	14	-100.0NA		80.00UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 8

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-630.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-630.0MV	-1.500 V	-100.0MV
54	13	-630.0MV	-1.500 V	-100.0MV
54	14	-490.0MV	-1.500 V	-100.0MV
64	5	550.0MV	100.0MV	1.500 V
64	6	550.0MV	100.0MV	1.500 V
64	8	550.0MV	100.0MV	1.500 V
64	9	540.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-10.00MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.180 V	3.700 V	
221	9	4.210 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.190 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	144.0MV		400.0MV
307	9	112.0MV		400.0MV
316	6	110.0MV		400.0MV
322	8	136.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.690 V	5.200 V	
221	9	5.720 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.690 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	148.0MV		400.0MV
307	9	118.0MV		400.0MV
316	6	116.0MV		400.0MV
322	8	158.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	2.000NA	-1.000UA	1.000UA
364	2	-4.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-4.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	-100.0NA		80.00UA
454	14	-100.0NA		80.00UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 9

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-630.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-630.0MV	-1.500 V	-100.0MV
54	13	-630.0MV	-1.500 V	-100.0MV
54	14	-500.0MV	-1.500 V	-100.0MV
64	5	550.0MV	100.0MV	1.500 V
64	6	550.0MV	100.0MV	1.500 V
64	8	550.0MV	100.0MV	1.500 V
64	9	550.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.180 V	3.700 V	
221	9	4.220 V	3.700 V	
230	6	4.220 V	3.700 V	
236	8	4.190 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	144.0MV		400.0MV
307	9	112.0MV		400.0MV
316	6	108.0MV		400.0MV
322	8	136.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.980 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.700 V	5.200 V	
221	9	5.720 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.680 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

 VOL2 TEST
 VCC= 6
 VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	146.0MV		400.0MV
307	9	120.0MV		400.0MV
316	6	114.0MV		400.0MV
322	8	160.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	2.000NA	-1.000UA	1.000UA
364	2	-4.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

 ICC TEST
 VCC= 6
 ICC LIMIT MAX. 2.0UA @25C/-55C
 ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	-100.0NA		80.00UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 10

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-620.0MV	-1.500 V	-100.0MV
54	3	-620.0MV	-1.500 V	-100.0MV
54	4	-620.0MV	-1.500 V	-100.0MV
54	10	-620.0MV	-1.500 V	-100.0MV
54	11	-620.0MV	-1.500 V	-100.0MV
54	12	-620.0MV	-1.500 V	-100.0MV
54	13	-620.0MV	-1.500 V	-100.0MV
54	14	-490.0MV	-1.500 V	-100.0MV
64	5	540.0MV	100.0MV	1.500 V
64	6	540.0MV	100.0MV	1.500 V
64	8	540.0MV	100.0MV	1.500 V
64	9	540.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.190 V	3.700 V	
221	9	4.210 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.190 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	136.0MV		400.0MV
307	9	112.0MV		400.0MV
316	6	108.0MV		400.0MV
322	8	134.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.700 V	5.200 V	
221	9	5.730 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.680 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-6.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	144.0MV		400.0MV
307	9	118.0MV		400.0MV
316	6	112.0MV		400.0MV
322	8	158.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	2.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	0 A		80.00UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 11

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-640.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-630.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-630.0MV	-1.500 V	-100.0MV
54	13	-630.0MV	-1.500 V	-100.0MV
54	14	-500.0MV	-1.500 V	-100.0MV
64	5	560.0MV	100.0MV	1.500 V
64	6	550.0MV	100.0MV	1.500 V
64	8	560.0MV	100.0MV	1.500 V
64	9	550.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.180 V	3.700 V	
221	9	4.220 V	3.700 V	
230	6	4.220 V	3.700 V	
236	8	4.190 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	148.0MV		400.0MV
307	9	110.0MV		400.0MV
316	6	106.0MV		400.0MV
322	8	132.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.700 V	5.200 V	
221	9	5.730 V	5.200 V	
230	6	5.730 V	5.200 V	
236	8	5.690 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

 VOL2 TEST
 VCC= 6
 VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	146.0MV		400.0MV
307	9	116.0MV		400.0MV
316	6	110.0MV		400.0MV
322	8	150.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

 ICC TEST
 VCC= 6
 ICC LIMIT MAX. 2.0UA @25C/-55C
 ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	-100.0NA		80.00UA
454	14	0 A		80.00UA

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

STAT1 05/25/11 07:12
TEST PROGRAM 4HC74 S/N 12

DDS-101-07-A PN 54HC74 ELECTRICAL TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-590.0MV	-1.500 V	-100.0MV
54	2	-590.0MV	-1.500 V	-100.0MV
54	3	-590.0MV	-1.500 V	-100.0MV
54	4	-590.0MV	-1.500 V	-100.0MV
54	10	-590.0MV	-1.500 V	-100.0MV
54	11	-590.0MV	-1.500 V	-100.0MV
54	12	-590.0MV	-1.500 V	-100.0MV
54	13	-590.0MV	-1.500 V	-100.0MV
54	14	-450.0MV	-1.500 V	-100.0MV
64	5	510.0MV	100.0MV	1.500 V
64	6	520.0MV	100.0MV	1.500 V
64	8	520.0MV	100.0MV	1.500 V
64	9	510.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.170 V	3.700 V	
221	9	4.190 V	3.700 V	
230	6	4.190 V	3.700 V	
236	8	4.160 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	150.0MV		400.0MV
307	9	124.0MV		400.0MV
316	6	120.0MV		400.0MV
322	8	148.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.980 V	5.900 V	
177	9	5.970 V	5.900 V	
186	6	5.970 V	5.900 V	
192	8	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.680 V	5.200 V	
221	9	5.700 V	5.200 V	
230	6	5.700 V	5.200 V	
236	8	5.660 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-6.000MV		100.0MV

272	6	-6.000MV	100.0MV
278	8	-8.000MV	100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	160.0MV		400.0MV
307	9	132.0MV		400.0MV
316	6	130.0MV		400.0MV
322	8	166.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	2.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	2.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	2.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	2.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	2.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	2.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA
415	13	2.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	0 A		80.00UA

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 4HC74 S/N 1
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-720.0MV	-1.500 V	-100.0MV
54	2	-730.0MV	-1.500 V	-100.0MV
54	3	-730.0MV	-1.500 V	-100.0MV
54	4	-730.0MV	-1.500 V	-100.0MV
54	10	-730.0MV	-1.500 V	-100.0MV
54	11	-730.0MV	-1.500 V	-100.0MV
54	12	-730.0MV	-1.500 V	-100.0MV
54	13	-730.0MV	-1.500 V	-100.0MV
54	14	-620.0MV	-1.500 V	-100.0MV
64	5	640.0MV	100.0MV	1.500 V
64	6	640.0MV	100.0MV	1.500 V
64	8	640.0MV	100.0MV	1.500 V
64	9	640.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.980 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.260 V	3.980 V	
221	9	4.260 V	3.980 V	
230	6	4.260 V	3.980 V	
236	8	4.230 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	88.00MV		260.0MV
307	9	86.00MV		260.0MV
316	6	82.00MV		260.0MV
322	8	116.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	

177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

 VOH2 TEST
 VCC= 6
 VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.760 V	5.480 V	
221	9	5.770 V	5.480 V	
230	6	5.770 V	5.480 V	
236	8	5.730 V	5.480 V	

 VOL1 TEST
 VCC= 6
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

 VOL2 TEST
 VCC= 6
 VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	92.00MV		260.0MV
307	9	90.00MV		260.0MV
316	6	84.00MV		260.0MV
322	8	128.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA

415 13 3.000NA -100.0NA 100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 2
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-700.0MV	-1.500 V	-100.0MV
54	2	-700.0MV	-1.500 V	-100.0MV
54	3	-700.0MV	-1.500 V	-100.0MV
54	4	-700.0MV	-1.500 V	-100.0MV
54	10	-710.0MV	-1.500 V	-100.0MV
54	11	-710.0MV	-1.500 V	-100.0MV
54	12	-700.0MV	-1.500 V	-100.0MV
54	13	-710.0MV	-1.500 V	-100.0MV
54	14	-590.0MV	-1.500 V	-100.0MV
64	5	620.0MV	100.0MV	1.500 V
64	6	620.0MV	100.0MV	1.500 V
64	8	620.0MV	100.0MV	1.500 V
64	9	620.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.240 V	3.980 V	
221	9	4.250 V	3.980 V	
230	6	4.250 V	3.980 V	
236	8	4.220 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	90.00MV		260.0MV
307	9	90.00MV		260.0MV
316	6	84.00MV		260.0MV
322	8	126.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.760 V	5.480 V	
221	9	5.760 V	5.480 V	
230	6	5.760 V	5.480 V	
236	8	5.730 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	94.00MV		260.0MV
307	9	94.00MV		260.0MV
316	6	84.00MV		260.0MV
322	8	130.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	33.00NA	-100.0NA	100.0NA

412	13	-4.000NA	-100.0NA	100.0NA
415	13	38.00NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	5.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 3
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-680.0MV	-1.500 V	-100.0MV
54	2	-680.0MV	-1.500 V	-100.0MV
54	3	-680.0MV	-1.500 V	-100.0MV
54	4	-680.0MV	-1.500 V	-100.0MV
54	10	-680.0MV	-1.500 V	-100.0MV
54	11	-680.0MV	-1.500 V	-100.0MV
54	12	-680.0MV	-1.500 V	-100.0MV
54	13	-680.0MV	-1.500 V	-100.0MV
54	14	-560.0MV	-1.500 V	-100.0MV
64	5	600.0MV	100.0MV	1.500 V
64	6	600.0MV	100.0MV	1.500 V
64	8	600.0MV	100.0MV	1.500 V
64	9	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST

VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST

VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.980 V	1.900 V	
186	6	1.980 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST

VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST

VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.220 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	100.0MV		260.0MV
316	6	92.00MV		260.0MV
322	8	110.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.740 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.730 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	102.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	94.00MV		260.0MV
322	8	116.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-4.000NA	-100.0NA	100.0NA
407	12	10.00NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	11.00NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 4
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-540.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.980 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	100.0MV		260.0MV
307	9	98.00MV		260.0MV
316	6	92.00MV		260.0MV
322	8	124.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.740 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.720 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	102.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	94.00MV		260.0MV
322	8	128.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-4.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 5
 DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-540.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.980 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.220 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	102.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	96.00MV		260.0MV
322	8	110.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.740 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.730 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	106.0MV		260.0MV
307	9	106.0MV		260.0MV
316	6	98.00MV		260.0MV
322	8	114.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-8.000NA	-100.0NA	100.0NA
391	10	8.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-8.000NA	-100.0NA	100.0NA
415	13	6.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	13.00NA		2.000UA
454	14	3.000NA		2.000UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 6
 DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-690.0MV	-1.500 V	-100.0MV
54	2	-690.0MV	-1.500 V	-100.0MV
54	3	-690.0MV	-1.500 V	-100.0MV
54	4	-690.0MV	-1.500 V	-100.0MV
54	10	-690.0MV	-1.500 V	-100.0MV
54	11	-690.0MV	-1.500 V	-100.0MV
54	12	-690.0MV	-1.500 V	-100.0MV
54	13	-690.0MV	-1.500 V	-100.0MV
54	14	-560.0MV	-1.500 V	-100.0MV
64	5	610.0MV	100.0MV	1.500 V
64	6	600.0MV	100.0MV	1.500 V
64	8	610.0MV	100.0MV	1.500 V
64	9	610.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.240 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.240 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	96.00MV		260.0MV
307	9	96.00MV		260.0MV
316	6	90.00MV		260.0MV
322	8	94.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.750 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.760 V	5.480 V	
236	8	5.760 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	98.00MV		260.0MV
316	6	90.00MV		260.0MV
322	8	94.00MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 7
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-530.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	580.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.230 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	102.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	96.00MV		260.0MV
322	8	102.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.740 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	106.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	96.00MV		260.0MV
322	8	104.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-6.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 8
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-680.0MV	-1.500 V	-100.0MV
54	13	-680.0MV	-1.500 V	-100.0MV
54	14	-550.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.240 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	96.00MV		260.0MV
316	6	92.00MV		260.0MV
322	8	96.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.750 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.750 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	100.0MV		260.0MV
307	9	100.0MV		260.0MV
316	6	94.00MV		260.0MV
322	8	98.00MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-6.000NA	-100.0NA	100.0NA
391	10	4.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	29.00NA	-100.0NA	100.0NA

412	13	-4.000NA	-100.0NA	100.0NA
415	13	32.00NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	6.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 9
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-540.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.230 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	98.00MV		260.0MV
316	6	92.00MV		260.0MV
322	8	102.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.740 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.740 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	102.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	92.00MV		260.0MV
322	8	104.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-6.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	5.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 10
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-550.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.240 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	96.00MV		260.0MV
316	6	92.00MV		260.0MV
322	8	96.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.750 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.750 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-4.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	100.0MV		260.0MV
307	9	100.0MV		260.0MV
316	6	92.00MV		260.0MV
322	8	98.00MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-6.000NA	-100.0NA	100.0NA
391	10	4.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	23.00NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	24.00NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	6.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 11
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-680.0MV	-1.500 V	-100.0MV
54	2	-680.0MV	-1.500 V	-100.0MV
54	3	-680.0MV	-1.500 V	-100.0MV
54	4	-680.0MV	-1.500 V	-100.0MV
54	10	-680.0MV	-1.500 V	-100.0MV
54	11	-680.0MV	-1.500 V	-100.0MV
54	12	-680.0MV	-1.500 V	-100.0MV
54	13	-680.0MV	-1.500 V	-100.0MV
54	14	-550.0MV	-1.500 V	-100.0MV
64	5	600.0MV	100.0MV	1.500 V
64	6	600.0MV	100.0MV	1.500 V
64	8	600.0MV	100.0MV	1.500 V
64	9	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.460 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.240 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.240 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	96.00MV		260.0MV
307	9	98.00MV		260.0MV
316	6	90.00MV		260.0MV
322	8	94.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.750 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.760 V	5.480 V	
236	8	5.750 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	100.0MV		260.0MV
307	9	100.0MV		260.0MV
316	6	90.00MV		260.0MV
322	8	96.00MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-11.00NA	-100.0NA	100.0NA
391	10	10.00NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-6.000NA	-100.0NA	100.0NA
407	12	85.00NA	-100.0NA	100.0NA

412	13	-4.000NA	-100.0NA	100.0NA
415	13	86.00NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	10.00NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 12
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-680.0MV	-1.500 V	-100.0MV
54	2	-680.0MV	-1.500 V	-100.0MV
54	3	-680.0MV	-1.500 V	-100.0MV
54	4	-680.0MV	-1.500 V	-100.0MV
54	10	-680.0MV	-1.500 V	-100.0MV
54	11	-680.0MV	-1.500 V	-100.0MV
54	12	-690.0MV	-1.500 V	-100.0MV
54	13	-690.0MV	-1.500 V	-100.0MV
54	14	-560.0MV	-1.500 V	-100.0MV
64	5	610.0MV	100.0MV	1.500 V
64	6	610.0MV	100.0MV	1.500 V
64	8	610.0MV	100.0MV	1.500 V
64	9	610.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.460 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.240 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.240 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	96.00MV		260.0MV
307	9	94.00MV		260.0MV
316	6	88.00MV		260.0MV
322	8	94.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.750 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.750 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	98.00MV		260.0MV
316	6	88.00MV		260.0MV
322	8	94.00MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 1
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-720.0MV	-1.500 V	-100.0MV
54	2	-730.0MV	-1.500 V	-100.0MV
54	3	-730.0MV	-1.500 V	-100.0MV
54	4	-730.0MV	-1.500 V	-100.0MV
54	10	-730.0MV	-1.500 V	-100.0MV
54	11	-730.0MV	-1.500 V	-100.0MV
54	12	-730.0MV	-1.500 V	-100.0MV
54	13	-730.0MV	-1.500 V	-100.0MV
54	14	-620.0MV	-1.500 V	-100.0MV
64	5	640.0MV	100.0MV	1.500 V
64	6	640.0MV	100.0MV	1.500 V
64	8	640.0MV	100.0MV	1.500 V
64	9	640.0MV	100.0MV	1.500 V

FUNCTIONAL TEST

VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST

VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.980 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST

VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST

VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.260 V	3.980 V	
221	9	4.260 V	3.980 V	
230	6	4.260 V	3.980 V	
236	8	4.230 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	88.00MV		260.0MV
307	9	86.00MV		260.0MV
316	6	82.00MV		260.0MV
322	8	116.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	

177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

 VOH2 TEST
 VCC= 6
 VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.760 V	5.480 V	
221	9	5.770 V	5.480 V	
230	6	5.770 V	5.480 V	
236	8	5.730 V	5.480 V	

 VOL1 TEST
 VCC= 6
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

 VOL2 TEST
 VCC= 6
 VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	92.00MV		260.0MV
307	9	90.00MV		260.0MV
316	6	84.00MV		260.0MV
322	8	128.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA

415 13 3.000NA -100.0NA 100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 2
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-700.0MV	-1.500 V	-100.0MV
54	2	-700.0MV	-1.500 V	-100.0MV
54	3	-700.0MV	-1.500 V	-100.0MV
54	4	-700.0MV	-1.500 V	-100.0MV
54	10	-710.0MV	-1.500 V	-100.0MV
54	11	-710.0MV	-1.500 V	-100.0MV
54	12	-700.0MV	-1.500 V	-100.0MV
54	13	-710.0MV	-1.500 V	-100.0MV
54	14	-590.0MV	-1.500 V	-100.0MV
64	5	620.0MV	100.0MV	1.500 V
64	6	620.0MV	100.0MV	1.500 V
64	8	620.0MV	100.0MV	1.500 V
64	9	620.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.240 V	3.980 V	
221	9	4.250 V	3.980 V	
230	6	4.250 V	3.980 V	
236	8	4.220 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	90.00MV		260.0MV
307	9	90.00MV		260.0MV
316	6	84.00MV		260.0MV
322	8	126.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.760 V	5.480 V	
221	9	5.760 V	5.480 V	
230	6	5.760 V	5.480 V	
236	8	5.730 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	94.00MV		260.0MV
307	9	94.00MV		260.0MV
316	6	84.00MV		260.0MV
322	8	130.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	33.00NA	-100.0NA	100.0NA

412	13	-4.000NA	-100.0NA	100.0NA
415	13	38.00NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	5.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 3
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-680.0MV	-1.500 V	-100.0MV
54	2	-680.0MV	-1.500 V	-100.0MV
54	3	-680.0MV	-1.500 V	-100.0MV
54	4	-680.0MV	-1.500 V	-100.0MV
54	10	-680.0MV	-1.500 V	-100.0MV
54	11	-680.0MV	-1.500 V	-100.0MV
54	12	-680.0MV	-1.500 V	-100.0MV
54	13	-680.0MV	-1.500 V	-100.0MV
54	14	-560.0MV	-1.500 V	-100.0MV
64	5	600.0MV	100.0MV	1.500 V
64	6	600.0MV	100.0MV	1.500 V
64	8	600.0MV	100.0MV	1.500 V
64	9	600.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.980 V	1.900 V	
186	6	1.980 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.220 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	100.0MV		260.0MV
316	6	92.00MV		260.0MV
322	8	110.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.740 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.730 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	102.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	94.00MV		260.0MV
322	8	116.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-4.000NA	-100.0NA	100.0NA
407	12	10.00NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	11.00NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 4
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-540.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.980 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	100.0MV		260.0MV
307	9	98.00MV		260.0MV
316	6	92.00MV		260.0MV
322	8	124.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.740 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.720 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	102.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	94.00MV		260.0MV
322	8	128.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-4.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 5
 DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-540.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.980 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.220 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	102.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	96.00MV		260.0MV
322	8	110.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.740 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.730 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	106.0MV		260.0MV
307	9	106.0MV		260.0MV
316	6	98.00MV		260.0MV
322	8	114.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-8.000NA	-100.0NA	100.0NA
391	10	8.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-8.000NA	-100.0NA	100.0NA
415	13	6.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	13.00NA		2.000UA
454	14	3.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 6
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-690.0MV	-1.500 V	-100.0MV
54	2	-690.0MV	-1.500 V	-100.0MV
54	3	-690.0MV	-1.500 V	-100.0MV
54	4	-690.0MV	-1.500 V	-100.0MV
54	10	-690.0MV	-1.500 V	-100.0MV
54	11	-690.0MV	-1.500 V	-100.0MV
54	12	-690.0MV	-1.500 V	-100.0MV
54	13	-690.0MV	-1.500 V	-100.0MV
54	14	-560.0MV	-1.500 V	-100.0MV
64	5	610.0MV	100.0MV	1.500 V
64	6	600.0MV	100.0MV	1.500 V
64	8	610.0MV	100.0MV	1.500 V
64	9	610.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.240 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.240 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	96.00MV		260.0MV
307	9	96.00MV		260.0MV
316	6	90.00MV		260.0MV
322	8	94.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.750 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.760 V	5.480 V	
236	8	5.760 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	98.00MV		260.0MV
316	6	90.00MV		260.0MV
322	8	94.00MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	2.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 7
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-530.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	580.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.230 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	102.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	96.00MV		260.0MV
322	8	102.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.740 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.740 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	106.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	96.00MV		260.0MV
322	8	104.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-6.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	2.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 8
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-680.0MV	-1.500 V	-100.0MV
54	13	-680.0MV	-1.500 V	-100.0MV
54	14	-550.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.240 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	96.00MV		260.0MV
316	6	92.00MV		260.0MV
322	8	96.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.750 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.750 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	100.0MV		260.0MV
307	9	100.0MV		260.0MV
316	6	94.00MV		260.0MV
322	8	98.00MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-6.000NA	-100.0NA	100.0NA
391	10	4.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	29.00NA	-100.0NA	100.0NA

412	13	-4.000NA	-100.0NA	100.0NA
415	13	32.00NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	6.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 9
 DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-540.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.230 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	98.00MV		260.0MV
316	6	92.00MV		260.0MV
322	8	102.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.740 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.740 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	102.0MV		260.0MV
307	9	102.0MV		260.0MV
316	6	92.00MV		260.0MV
322	8	104.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-6.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	5.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 10
DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-670.0MV	-1.500 V	-100.0MV
54	2	-670.0MV	-1.500 V	-100.0MV
54	3	-670.0MV	-1.500 V	-100.0MV
54	4	-670.0MV	-1.500 V	-100.0MV
54	10	-670.0MV	-1.500 V	-100.0MV
54	11	-670.0MV	-1.500 V	-100.0MV
54	12	-670.0MV	-1.500 V	-100.0MV
54	13	-670.0MV	-1.500 V	-100.0MV
54	14	-550.0MV	-1.500 V	-100.0MV
64	5	590.0MV	100.0MV	1.500 V
64	6	590.0MV	100.0MV	1.500 V
64	8	590.0MV	100.0MV	1.500 V
64	9	590.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.230 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.240 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	96.00MV		260.0MV
316	6	92.00MV		260.0MV
322	8	96.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.750 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.750 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-4.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	100.0MV		260.0MV
307	9	100.0MV		260.0MV
316	6	92.00MV		260.0MV
322	8	98.00MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	2.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-6.000NA	-100.0NA	100.0NA
391	10	4.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	23.00NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	24.00NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	6.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 11
 DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-680.0MV	-1.500 V	-100.0MV
54	2	-680.0MV	-1.500 V	-100.0MV
54	3	-680.0MV	-1.500 V	-100.0MV
54	4	-680.0MV	-1.500 V	-100.0MV
54	10	-680.0MV	-1.500 V	-100.0MV
54	11	-680.0MV	-1.500 V	-100.0MV
54	12	-680.0MV	-1.500 V	-100.0MV
54	13	-680.0MV	-1.500 V	-100.0MV
54	14	-550.0MV	-1.500 V	-100.0MV
64	5	600.0MV	100.0MV	1.500 V
64	6	600.0MV	100.0MV	1.500 V
64	8	600.0MV	100.0MV	1.500 V
64	9	600.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.460 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.240 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.240 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	96.00MV		260.0MV
307	9	98.00MV		260.0MV
316	6	90.00MV		260.0MV
322	8	94.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.750 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.760 V	5.480 V	
236	8	5.750 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	100.0MV		260.0MV
307	9	100.0MV		260.0MV
316	6	90.00MV		260.0MV
322	8	96.00MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-11.00NA	-100.0NA	100.0NA
391	10	10.00NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-6.000NA	-100.0NA	100.0NA
407	12	85.00NA	-100.0NA	100.0NA

412	13	-4.000NA	-100.0NA	100.0NA
415	13	86.00NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	10.00NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 12
 DDS-101-07-A PN 54HC74 TEST SEQ14 -55C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-680.0MV	-1.500 V	-100.0MV
54	2	-680.0MV	-1.500 V	-100.0MV
54	3	-680.0MV	-1.500 V	-100.0MV
54	4	-680.0MV	-1.500 V	-100.0MV
54	10	-680.0MV	-1.500 V	-100.0MV
54	11	-680.0MV	-1.500 V	-100.0MV
54	12	-690.0MV	-1.500 V	-100.0MV
54	13	-690.0MV	-1.500 V	-100.0MV
54	14	-560.0MV	-1.500 V	-100.0MV
64	5	610.0MV	100.0MV	1.500 V
64	6	610.0MV	100.0MV	1.500 V
64	8	610.0MV	100.0MV	1.500 V
64	9	610.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.980 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.460 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.240 V	3.980 V	
221	9	4.240 V	3.980 V	
230	6	4.240 V	3.980 V	
236	8	4.240 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	96.00MV		260.0MV
307	9	94.00MV		260.0MV
316	6	88.00MV		260.0MV
322	8	94.00MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.750 V	5.480 V	
221	9	5.750 V	5.480 V	
230	6	5.750 V	5.480 V	
236	8	5.750 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	98.00MV		260.0MV
307	9	98.00MV		260.0MV
316	6	88.00MV		260.0MV
322	8	94.00MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	2.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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 4HC74 S/N 1
DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-650.0MV	-1.500 V	-100.0MV
54	2	-640.0MV	-1.500 V	-100.0MV
54	3	-650.0MV	-1.500 V	-100.0MV
54	4	-640.0MV	-1.500 V	-100.0MV
54	10	-650.0MV	-1.500 V	-100.0MV
54	11	-640.0MV	-1.500 V	-100.0MV
54	12	-640.0MV	-1.500 V	-100.0MV
54	13	-650.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	560.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST

VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST

VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST

VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST

VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.210 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	110.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	116.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	

177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

 VOH2 TEST
 VCC= 6
 VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.710 V	5.480 V	

 VOL1 TEST
 VCC= 6
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

 VOL2 TEST
 VCC= 6
 VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	114.0MV		260.0MV
307	9	114.0MV		260.0MV
316	6	106.0MV		260.0MV
322	8	122.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA
412	13	-5.000NA	-100.0NA	100.0NA

415 13 3.000NA -100.0NA 100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 2
 DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-650.0MV	-1.500 V	-100.0MV
54	2	-650.0MV	-1.500 V	-100.0MV
54	3	-650.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-650.0MV	-1.500 V	-100.0MV
54	11	-650.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-650.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	580.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-4.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	108.0MV		260.0MV
307	9	106.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	124.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.980 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	112.0MV		260.0MV
307	9	112.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	134.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 3
 DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-530.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	580.0MV	100.0MV	1.500 V
64	8	580.0MV	100.0MV	1.500 V
64	9	580.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.190 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	108.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	134.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.690 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	114.0MV		260.0MV
307	9	114.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	146.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 4
DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.980 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.200 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	106.0MV		260.0MV
307	9	106.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	124.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	112.0MV		260.0MV
307	9	112.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	128.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-4.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 5
DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-530.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	580.0MV	100.0MV	1.500 V
64	8	580.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.980 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.460 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	108.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	98.00MV		260.0MV
322	8	122.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	114.0MV		260.0MV
307	9	114.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	132.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 6
 DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-650.0MV	-1.500 V	-100.0MV
54	2	-650.0MV	-1.500 V	-100.0MV
54	3	-650.0MV	-1.500 V	-100.0MV
54	4	-660.0MV	-1.500 V	-100.0MV
54	10	-650.0MV	-1.500 V	-100.0MV
54	11	-650.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	580.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

 VOH1 TEST
 VCC= 4.500
 VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

 VOH2 TEST
 VCC= 4.500
 VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.980 V	
221	9	4.210 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.210 V	3.980 V	

 VOL1 TEST
 VCC= 4.500
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

 VOL2 TEST
 VCC= 4.500
 VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	110.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	118.0MV		260.0MV

 FUNCTIONAL TEST
 VCC= 6
 VIH= 4.200 VIL= 1.800

 VOH1 TEST
 VCC= 6
 VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.720 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	116.0MV		260.0MV
307	9	114.0MV		260.0MV
316	6	106.0MV		260.0MV
322	8	124.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 7
DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-650.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-650.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	580.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	580.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.460 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.210 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	110.0MV		260.0MV
307	9	110.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	120.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.720 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	116.0MV		260.0MV
307	9	114.0MV		260.0MV
316	6	106.0MV		260.0MV
322	8	126.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 8
DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-650.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-650.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-650.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.980 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.200 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	106.0MV		260.0MV
307	9	104.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	130.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.700 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	112.0MV		260.0MV
307	9	112.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	138.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 9
DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-660.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-530.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	570.0MV	100.0MV	1.500 V
64	9	570.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.200 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	108.0MV		260.0MV
307	9	106.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	124.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.720 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	114.0MV		260.0MV
307	9	112.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	124.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 10
DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-660.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-660.0MV	-1.500 V	-100.0MV
54	11	-660.0MV	-1.500 V	-100.0MV
54	12	-650.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-530.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	580.0MV	100.0MV	1.500 V
64	8	580.0MV	100.0MV	1.500 V
64	9	580.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.230 V	3.980 V	
230	6	4.230 V	3.980 V	
236	8	4.200 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	106.0MV		260.0MV
307	9	106.0MV		260.0MV
316	6	98.00MV		260.0MV
322	8	120.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.740 V	5.480 V	
236	8	5.710 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	112.0MV		260.0MV
307	9	110.0MV		260.0MV
316	6	102.0MV		260.0MV
322	8	130.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 11
 DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-660.0MV	-1.500 V	-100.0MV
54	2	-660.0MV	-1.500 V	-100.0MV
54	3	-650.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-650.0MV	-1.500 V	-100.0MV
54	11	-650.0MV	-1.500 V	-100.0MV
54	12	-650.0MV	-1.500 V	-100.0MV
54	13	-660.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	570.0MV	100.0MV	1.500 V
64	6	570.0MV	100.0MV	1.500 V
64	8	580.0MV	100.0MV	1.500 V
64	9	580.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.220 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.210 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	108.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	112.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.730 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.720 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	112.0MV		260.0MV
307	9	114.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	120.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 12
DDS-101-07-A PN 54HC74 TEST SEQ14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-650.0MV	-1.500 V	-100.0MV
54	2	-650.0MV	-1.500 V	-100.0MV
54	3	-650.0MV	-1.500 V	-100.0MV
54	4	-650.0MV	-1.500 V	-100.0MV
54	10	-650.0MV	-1.500 V	-100.0MV
54	11	-650.0MV	-1.500 V	-100.0MV
54	12	-650.0MV	-1.500 V	-100.0MV
54	13	-650.0MV	-1.500 V	-100.0MV
54	14	-520.0MV	-1.500 V	-100.0MV
64	5	580.0MV	100.0MV	1.500 V
64	6	580.0MV	100.0MV	1.500 V
64	8	580.0MV	100.0MV	1.500 V
64	9	580.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
215	5	4.220 V	3.980 V	
221	9	4.210 V	3.980 V	
230	6	4.220 V	3.980 V	
236	8	4.190 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	108.0MV		260.0MV
307	9	108.0MV		260.0MV
316	6	100.0MV		260.0MV
322	8	130.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.480 V	
221	9	5.730 V	5.480 V	
230	6	5.730 V	5.480 V	
236	8	5.690 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	114.0MV		260.0MV
307	9	114.0MV		260.0MV
316	6	104.0MV		260.0MV
322	8	138.0MV		260.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-100.0NA	100.0NA
359	1	3.000NA	-100.0NA	100.0NA
364	2	-5.000NA	-100.0NA	100.0NA
367	2	3.000NA	-100.0NA	100.0NA
372	3	-5.000NA	-100.0NA	100.0NA
375	3	3.000NA	-100.0NA	100.0NA
380	4	-5.000NA	-100.0NA	100.0NA
383	4	3.000NA	-100.0NA	100.0NA
388	10	-5.000NA	-100.0NA	100.0NA
391	10	3.000NA	-100.0NA	100.0NA
396	11	-5.000NA	-100.0NA	100.0NA
399	11	3.000NA	-100.0NA	100.0NA
404	12	-5.000NA	-100.0NA	100.0NA
407	12	3.000NA	-100.0NA	100.0NA

412	13	-5.000NA	-100.0NA	100.0NA
415	13	3.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	4.000NA		2.000UA
454	14	2.000NA		2.000UA

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 4HC74 S/N 1
DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-580.0MV	-1.500 V	-100.0MV
54	2	-580.0MV	-1.500 V	-100.0MV
54	3	-580.0MV	-1.500 V	-100.0MV
54	4	-580.0MV	-1.500 V	-100.0MV
54	10	-580.0MV	-1.500 V	-100.0MV
54	11	-580.0MV	-1.500 V	-100.0MV
54	12	-580.0MV	-1.500 V	-100.0MV
54	13	-580.0MV	-1.500 V	-100.0MV
54	14	-440.0MV	-1.500 V	-100.0MV
64	5	500.0MV	100.0MV	1.500 V
64	6	510.0MV	100.0MV	1.500 V
64	8	510.0MV	100.0MV	1.500 V
64	9	500.0MV	100.0MV	1.500 V

FUNCTIONAL TEST

VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST

VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.980 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST

VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST

VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.190 V	3.700 V	
221	9	4.200 V	3.700 V	
230	6	4.190 V	3.700 V	
236	8	4.190 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	126.0MV		400.0MV
307	9	126.0MV		400.0MV
316	6	118.0MV		400.0MV
322	8	124.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
171	5	5.970 V	5.900 V	

177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.700 V	5.200 V	
221	9	5.700 V	5.200 V	
230	6	5.700 V	5.200 V	
236	8	5.710 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-4.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	132.0MV		400.0MV
307	9	132.0MV		400.0MV
316	6	124.0MV		400.0MV
322	8	128.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-4.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA
412	13	-5.000NA	-1.000UA	1.000UA

415 13 3.000NA -1.000UA 1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	-100.0NA		80.00UA
454	14	0 A		80.00UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 2
 DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-620.0MV	-1.500 V	-100.0MV
54	2	-620.0MV	-1.500 V	-100.0MV
54	3	-620.0MV	-1.500 V	-100.0MV
54	4	-620.0MV	-1.500 V	-100.0MV
54	10	-620.0MV	-1.500 V	-100.0MV
54	11	-620.0MV	-1.500 V	-100.0MV
54	12	-620.0MV	-1.500 V	-100.0MV
54	13	-620.0MV	-1.500 V	-100.0MV
54	14	-480.0MV	-1.500 V	-100.0MV
64	5	540.0MV	100.0MV	1.500 V
64	6	540.0MV	100.0MV	1.500 V
64	8	540.0MV	100.0MV	1.500 V
64	9	540.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.200 V	3.700 V	
221	9	4.200 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.210 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	122.0MV		400.0MV
307	9	120.0MV		400.0MV
316	6	114.0MV		400.0MV
322	8	118.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.710 V	5.200 V	
221	9	5.710 V	5.200 V	
230	6	5.710 V	5.200 V	
236	8	5.710 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	132.0MV		400.0MV
307	9	132.0MV		400.0MV
316	6	122.0MV		400.0MV
322	8	128.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA

412	13	-5.000NA	-1.000UA	1.000UA
415	13	3.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	-100.0NA		80.00UA
454	14	-100.0NA		80.00UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 3
DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-640.0MV	-1.500 V	-100.0MV
54	2	-640.0MV	-1.500 V	-100.0MV
54	3	-640.0MV	-1.500 V	-100.0MV
54	4	-640.0MV	-1.500 V	-100.0MV
54	10	-640.0MV	-1.500 V	-100.0MV
54	11	-640.0MV	-1.500 V	-100.0MV
54	12	-640.0MV	-1.500 V	-100.0MV
54	13	-640.0MV	-1.500 V	-100.0MV
54	14	-510.0MV	-1.500 V	-100.0MV
64	5	560.0MV	100.0MV	1.500 V
64	6	560.0MV	100.0MV	1.500 V
64	8	560.0MV	100.0MV	1.500 V
64	9	560.0MV	100.0MV	1.500 V

FUNCTIONAL TEST

VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST

VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST

VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST

VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.700 V	
221	9	4.210 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.210 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	116.0MV		400.0MV
307	9	118.0MV		400.0MV
316	6	108.0MV		400.0MV
322	8	112.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.710 V	5.200 V	
221	9	5.710 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.710 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	124.0MV		400.0MV
307	9	126.0MV		400.0MV
316	6	116.0MV		400.0MV
322	8	120.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-4.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA

412	13	-5.000NA	-1.000UA	1.000UA
415	13	3.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	-100.0NA		80.00UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 4
DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-640.0MV	-1.500 V	-100.0MV
54	2	-640.0MV	-1.500 V	-100.0MV
54	3	-640.0MV	-1.500 V	-100.0MV
54	4	-640.0MV	-1.500 V	-100.0MV
54	10	-640.0MV	-1.500 V	-100.0MV
54	11	-640.0MV	-1.500 V	-100.0MV
54	12	-640.0MV	-1.500 V	-100.0MV
54	13	-640.0MV	-1.500 V	-100.0MV
54	14	-500.0MV	-1.500 V	-100.0MV
64	5	560.0MV	100.0MV	1.500 V
64	6	560.0MV	100.0MV	1.500 V
64	8	550.0MV	100.0MV	1.500 V
64	9	550.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.700 V	
221	9	4.210 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.210 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	116.0MV		400.0MV
307	9	118.0MV		400.0MV
316	6	110.0MV		400.0MV
322	8	114.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.980 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.710 V	5.200 V	
221	9	5.720 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.720 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-2.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	124.0MV		400.0MV
307	9	126.0MV		400.0MV
316	6	116.0MV		400.0MV
322	8	124.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-4.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA

412	13	-5.000NA	-1.000UA	1.000UA
415	13	3.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	-100.0NA		80.00UA
454	14	-100.0NA		80.00UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 5
 DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-630.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-630.0MV	-1.500 V	-100.0MV
54	13	-630.0MV	-1.500 V	-100.0MV
54	14	-500.0MV	-1.500 V	-100.0MV
64	5	550.0MV	100.0MV	1.500 V
64	6	550.0MV	100.0MV	1.500 V
64	8	550.0MV	100.0MV	1.500 V
64	9	550.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.980 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-8.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.700 V	
221	9	4.210 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.210 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	118.0MV		400.0MV
307	9	120.0MV		400.0MV
316	6	112.0MV		400.0MV
322	8	116.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.710 V	5.200 V	
221	9	5.710 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.710 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	130.0MV		400.0MV
307	9	130.0MV		400.0MV
316	6	120.0MV		400.0MV
322	8	124.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA

412	13	-5.000NA	-1.000UA	1.000UA
415	13	3.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	-100.0NA		80.00UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 6
DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-630.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-630.0MV	-1.500 V	-100.0MV
54	13	-630.0MV	-1.500 V	-100.0MV
54	14	-490.0MV	-1.500 V	-100.0MV
64	5	550.0MV	100.0MV	1.500 V
64	6	550.0MV	100.0MV	1.500 V
64	8	550.0MV	100.0MV	1.500 V
64	9	550.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.200 V	3.700 V	
221	9	4.200 V	3.700 V	
230	6	4.200 V	3.700 V	
236	8	4.200 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	122.0MV		400.0MV
307	9	120.0MV		400.0MV
316	6	114.0MV		400.0MV
322	8	118.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.700 V	5.200 V	
221	9	5.710 V	5.200 V	
230	6	5.710 V	5.200 V	
236	8	5.710 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	132.0MV		400.0MV
307	9	132.0MV		400.0MV
316	6	122.0MV		400.0MV
322	8	128.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA

412	13	-5.000NA	-1.000UA	1.000UA
415	13	3.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	-100.0NA		80.00UA
454	14	-100.0NA		80.00UA

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

STAT1 06/11/11 06:49
 TEST PROGRAM 4HC74 S/N 7
 DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-620.0MV	-1.500 V	-100.0MV
54	11	-620.0MV	-1.500 V	-100.0MV
54	12	-620.0MV	-1.500 V	-100.0MV
54	13	-620.0MV	-1.500 V	-100.0MV
54	14	-490.0MV	-1.500 V	-100.0MV
64	5	550.0MV	100.0MV	1.500 V
64	6	540.0MV	100.0MV	1.500 V
64	8	540.0MV	100.0MV	1.500 V
64	9	540.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.980 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.980 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

 FUNCTIONAL TEST
 VCC= 4.500
 VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.460 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.200 V	3.700 V	
221	9	4.200 V	3.700 V	
230	6	4.200 V	3.700 V	
236	8	4.200 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	124.0MV		400.0MV
307	9	124.0MV		400.0MV
316	6	118.0MV		400.0MV
322	8	124.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.980 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.700 V	5.200 V	
221	9	5.700 V	5.200 V	
230	6	5.700 V	5.200 V	
236	8	5.700 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	134.0MV		400.0MV
307	9	134.0MV		400.0MV
316	6	126.0MV		400.0MV
322	8	132.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA

412	13	-5.000NA	-1.000UA	1.000UA
415	13	3.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	0 A		80.00UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 8
DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-620.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-620.0MV	-1.500 V	-100.0MV
54	13	-620.0MV	-1.500 V	-100.0MV
54	14	-490.0MV	-1.500 V	-100.0MV
64	5	540.0MV	100.0MV	1.500 V
64	6	540.0MV	100.0MV	1.500 V
64	8	540.0MV	100.0MV	1.500 V
64	9	540.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.200 V	3.700 V	
221	9	4.200 V	3.700 V	
230	6	4.200 V	3.700 V	
236	8	4.210 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	122.0MV		400.0MV
307	9	120.0MV		400.0MV
316	6	116.0MV		400.0MV
322	8	120.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.700 V	5.200 V	
221	9	5.710 V	5.200 V	
230	6	5.710 V	5.200 V	
236	8	5.710 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-4.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	132.0MV		400.0MV
307	9	132.0MV		400.0MV
316	6	122.0MV		400.0MV
322	8	128.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA

412	13	-5.000NA	-1.000UA	1.000UA
415	13	3.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	0 A		80.00UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 9
DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-640.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-630.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-630.0MV	-1.500 V	-100.0MV
54	13	-630.0MV	-1.500 V	-100.0MV
54	14	-490.0MV	-1.500 V	-100.0MV
64	5	550.0MV	100.0MV	1.500 V
64	6	550.0MV	100.0MV	1.500 V
64	8	550.0MV	100.0MV	1.500 V
64	9	550.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.980 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.700 V	
221	9	4.210 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.210 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	118.0MV		400.0MV
307	9	118.0MV		400.0MV
316	6	110.0MV		400.0MV
322	8	114.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.710 V	5.200 V	
221	9	5.710 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.720 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	126.0MV		400.0MV
307	9	128.0MV		400.0MV
316	6	116.0MV		400.0MV
322	8	120.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-4.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA

412	13	-5.000NA	-1.000UA	1.000UA
415	13	3.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	0 A		80.00UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 10
DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-630.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-630.0MV	-1.500 V	-100.0MV
54	13	-630.0MV	-1.500 V	-100.0MV
54	14	-490.0MV	-1.500 V	-100.0MV
64	5	550.0MV	100.0MV	1.500 V
64	6	550.0MV	100.0MV	1.500 V
64	8	550.0MV	100.0MV	1.500 V
64	9	550.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-8.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.700 V	
221	9	4.210 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.210 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	116.0MV		400.0MV
307	9	116.0MV		400.0MV
316	6	110.0MV		400.0MV
322	8	114.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.200 V	
221	9	5.710 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.710 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-4.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	126.0MV		400.0MV
307	9	124.0MV		400.0MV
316	6	116.0MV		400.0MV
322	8	120.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA

412	13	-5.000NA	-1.000UA	1.000UA
415	13	3.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	-100.0NA		80.00UA
454	14	0 A		80.00UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 11
DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-630.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-630.0MV	-1.500 V	-100.0MV
54	13	-630.0MV	-1.500 V	-100.0MV
54	14	-500.0MV	-1.500 V	-100.0MV
64	5	550.0MV	100.0MV	1.500 V
64	6	550.0MV	100.0MV	1.500 V
64	8	560.0MV	100.0MV	1.500 V
64	9	550.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.980 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-8.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.450 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.210 V	3.700 V	
221	9	4.210 V	3.700 V	
230	6	4.210 V	3.700 V	
236	8	4.210 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	116.0MV		400.0MV
307	9	116.0MV		400.0MV
316	6	108.0MV		400.0MV
322	8	112.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.980 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.720 V	5.200 V	
221	9	5.720 V	5.200 V	
230	6	5.720 V	5.200 V	
236	8	5.720 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	122.0MV		400.0MV
307	9	124.0MV		400.0MV
316	6	114.0MV		400.0MV
322	8	118.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-4.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-5.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA

412	13	-5.000NA	-1.000UA	1.000UA
415	13	3.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	-100.0NA		80.00UA
454	14	-100.0NA		80.00UA

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

STAT1 06/11/11 06:49
TEST PROGRAM 4HC74 S/N 12
DDS-101-07-A PN 54HC74 TEST SEQ14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
54	1	-630.0MV	-1.500 V	-100.0MV
54	2	-630.0MV	-1.500 V	-100.0MV
54	3	-630.0MV	-1.500 V	-100.0MV
54	4	-630.0MV	-1.500 V	-100.0MV
54	10	-630.0MV	-1.500 V	-100.0MV
54	11	-630.0MV	-1.500 V	-100.0MV
54	12	-630.0MV	-1.500 V	-100.0MV
54	13	-630.0MV	-1.500 V	-100.0MV
54	14	-500.0MV	-1.500 V	-100.0MV
64	5	560.0MV	100.0MV	1.500 V
64	6	560.0MV	100.0MV	1.500 V
64	8	550.0MV	100.0MV	1.500 V
64	9	560.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
171	5	1.970 V	1.900 V	
177	9	1.970 V	1.900 V	
186	6	1.970 V	1.900 V	
192	8	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-8.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-8.000MV		100.0MV
278	8	-6.000MV		100.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
171	5	4.450 V	4.400 V	
177	9	4.460 V	4.400 V	
186	6	4.450 V	4.400 V	
192	8	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
215	5	4.200 V	3.700 V	
221	9	4.200 V	3.700 V	
230	6	4.200 V	3.700 V	
236	8	4.200 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-6.000MV		100.0MV
263	9	-6.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	118.0MV		400.0MV
307	9	120.0MV		400.0MV
316	6	112.0MV		400.0MV
322	8	118.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
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171	5	5.970 V	5.900 V
177	9	5.970 V	5.900 V
186	6	5.970 V	5.900 V
192	8	5.970 V	5.900 V

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
215	5	5.710 V	5.200 V	
221	9	5.700 V	5.200 V	
230	6	5.710 V	5.200 V	
236	8	5.700 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
257	5	-4.000MV		100.0MV
263	9	-4.000MV		100.0MV
272	6	-6.000MV		100.0MV
278	8	-6.000MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
301	5	128.0MV		400.0MV
307	9	130.0MV		400.0MV
316	6	120.0MV		400.0MV
322	8	126.0MV		400.0MV

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

INST #	PIN	MEASURED	LT	GT
356	1	-3.000NA	-1.000UA	1.000UA
359	1	3.000NA	-1.000UA	1.000UA
364	2	-4.000NA	-1.000UA	1.000UA
367	2	3.000NA	-1.000UA	1.000UA
372	3	-5.000NA	-1.000UA	1.000UA
375	3	3.000NA	-1.000UA	1.000UA
380	4	-5.000NA	-1.000UA	1.000UA
383	4	3.000NA	-1.000UA	1.000UA
388	10	-5.000NA	-1.000UA	1.000UA
391	10	3.000NA	-1.000UA	1.000UA
396	11	-5.000NA	-1.000UA	1.000UA
399	11	3.000NA	-1.000UA	1.000UA
404	12	-5.000NA	-1.000UA	1.000UA
407	12	3.000NA	-1.000UA	1.000UA

412	13	-5.000NA	-1.000UA	1.000UA
415	13	3.000NA	-1.000UA	1.000UA

ICC TEST
VCC= 6
ICC LIMIT MAX. 2.0UA @25C/-55C
ICC LIMIT MAX. 80UA @+125C

INST #	PIN	MEASURED	LT	GT
447	14	0 A		80.00UA
454	14	0 A		80.00UA

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-101-07-W

Date: June 25, 2018

Part Number: 54HC74

Part Type: CMOS LOGIC MICROCIRCUIT

Lot: Lot# 220032 D/C: 1810 WFR# 21

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-101-07-W

Summary

Eight (8) CMOS Logic Microcircuit P/N: 54HC74 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 Tetraflouride 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-101-07-W
SEM EXAMINATION

TTL Job No. DDS-101-07-W	Part Number 54HC74	Part Type CMOS Logic Microcircuit	Date June 20, 2018
Lot Date Code: WFR# 21 Lot# 220032 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: No: Devices constructed with expanded Metallization Yes: No:

Sample Glassivated Yes: No: Dual Level Metallization Yes: No:

Glassivation Removed Using: PLASMA ETCHING

Beam accelerating voltage 10kV to 20kV Viewing angle 45 deg



Technician Stamp:

TANDEX TEST LABS TTL Job # DDS-101-07-W

Photodocumentation

TANDEX TEST LABS TTL Job # DDS-101-07-W

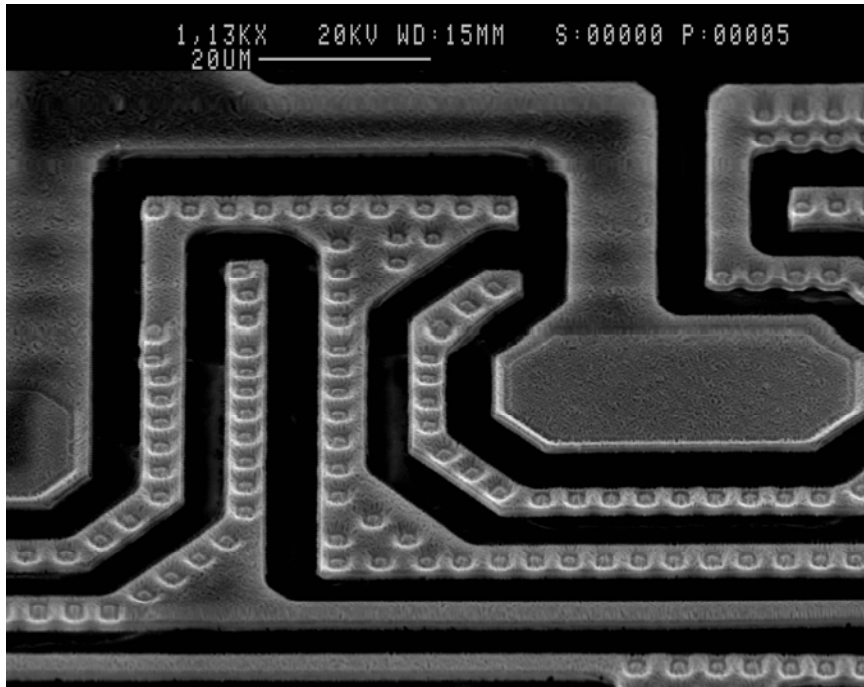


Fig: 1

Mag: 1,130X

S/N: 6

Description: SEM photograph of general metallization.

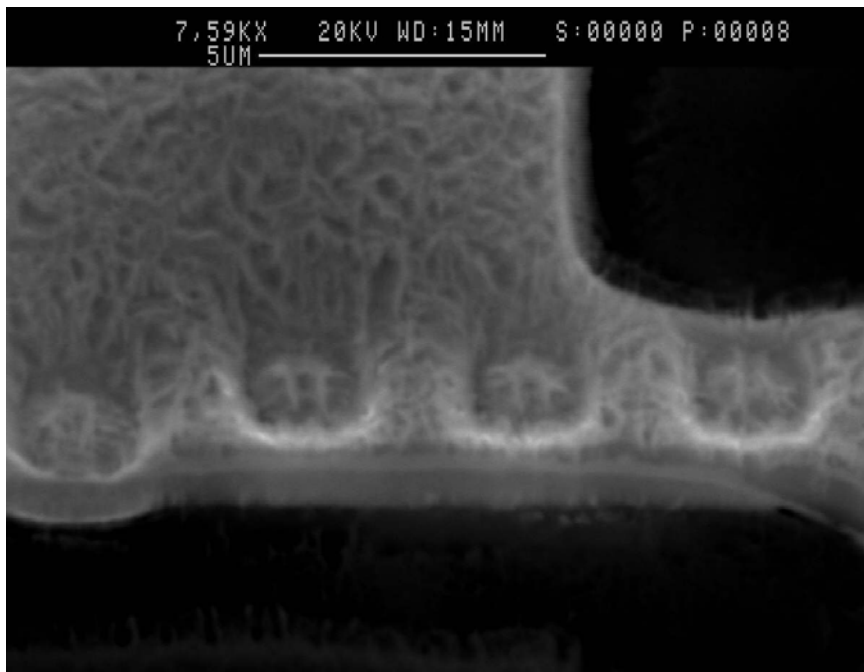


Fig: 2

Mag: 7,590X

S/N: 6

Description: SEM photograph of metallization typical step.

Note: Minor glass remaining on the die surface.

TANDEX TEST LABS TTL Job # DDS-101-07-W

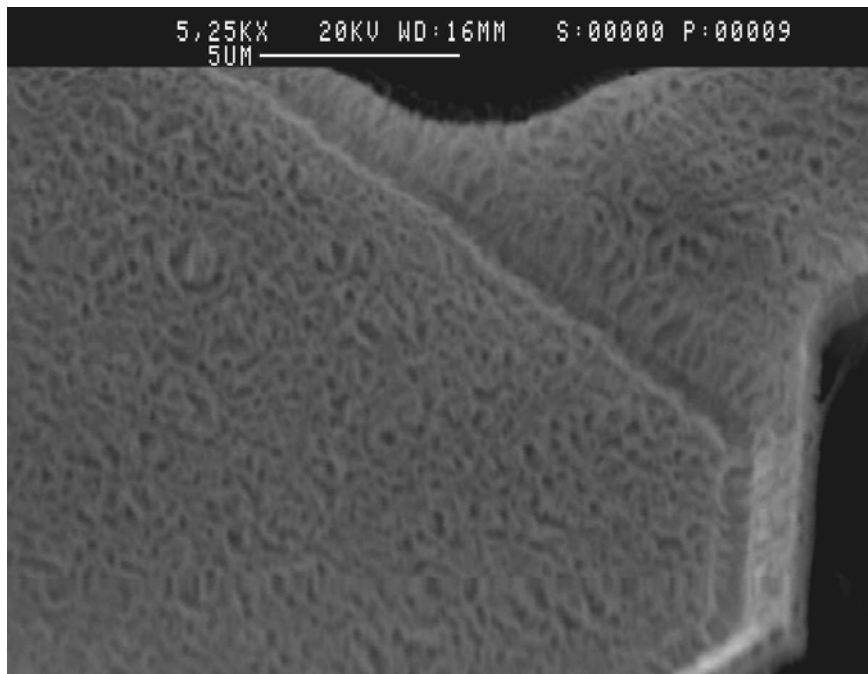


Fig: 3

Mag: 5,250X

S/N: 6

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>

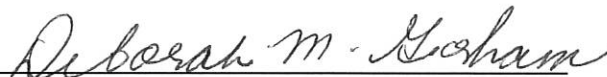

e-mail: via web site

Certificate of Conformance

CUSTOMER:	Silicon Supplies Limited 47 Wherry Road Norwich, NR1, 1WS United Kingdom Vat GB# 114 3513 56	DATE: June 25, 2018
TEST REPORT:	DDS-101-07-W	QUANTITY REQUIRED: 8
P.O. NUMBER:	SS139	QUANTITY PROCESSED: 8
DESCRIPTION:	CMOS LOGIC MICROCIRCUIT	QUANTITY PASSED: 8
PART NUMBER(S):	54HC74	QUANTITY FAILED: 0
MFG PART NUMBER	54HC74	QUANTITY SHIPPING: 8
LOT / DATE CODE:	LOT# 220032 WFR# 21 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