



Reliability Report – CD4081B

CMOS High Voltage Logic - Quad 2-Input AND Gate Logic IC

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.

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

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http://www.tandexlabs.com

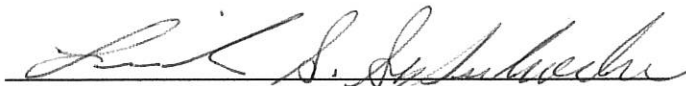
e-mail: via web site

Certificate of Conformance

CUSTOMER:	SILICON SUPPLIES LIMITED	DATE: January 17, 2019
	47 WHERRY ROAD NORWICH, NR1, 1WS UNITED KINGDOM VAT GB#114 3513 56	
TEST REPORT:	DDS-101-04-A	QUANTITY RECEIVED: 30 DIE
P.O. NUMBER:	SS139	QUANTITY REQUIRED: 10/5/8
DESCRIPTION:	CMOS LOGIC MICROCIRCUIT	QUANTITY PROCESSED: 17
PART NUMBER(S):	CD4081B	QUANTITY PASSED: 17
P/N: AS RECEIVED / MFG. PART NUMBER:	CD4081B	QUANTITY FAILED: 0
LOT / DATE CODE:	1810 LOT# 4454 WF23	
MANUFACTURE: CAGE CODE:	SILICON SUPPLIES	QUANTITY SHIPPING: 17*
TANDEX CAGE CODE:	1FE65	INCLUDES: 10 PROCESS ACCEPT 5 BOND PULL DEVICES 2 SPARES *8 DIE TRANSFERRED TO DDS-101-04-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.


Linda S. Sepulveda

QUALITY ASSURANCE



QMF 30



MIL-PRF-38534 CLASS K DATAPACK

Process Flow Chart + Mechanical Test Results



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QMF22B

15849 BUSINESS CENTER DRIVE, IRVINDALE, CA. 91706 PH: (626)962-7166 FAX: (626) 960-6896

PROCESS FLOW CHART

FLOW NUMBER: DDS-101-04-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: CD4081B P/N AS RECEIVED: CD4081B
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-04-A
 LDC AS RECEIVED: 1810 LOT# 4454 WF23 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 checked="" type="checkbox"/> <input checked="" type="checkbox"/> Q-CLAUSES <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> DPAS <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> DFAR <input type="checkbox"/> <input 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>							
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. EQUIPMENT USED: <u>Olympus</u> ASSET #: <u>20091</u>	30	0	30	3/30/18			TTL
			ESD MAT DUE DATE: <u>4/27/18</u>							
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 10+2 EUTETIC BOND PULL 5 Lot#: <u>149555</u> Exp. Date: <u>N/A</u> SEM 8 * Package Type: 14 PIN DIP TRANSFER TO DDS-101-04-W MIL-STD-883 METHOD 2018		0	10+2	4/6/18			TTL 30
			WIRE BOND: Utilize 1 Mil Au Wire (.001) 1 Mil Au bonder <u>HECH-EL</u> Asset #: <u>20060</u>	17	0	5	4/6/18			TTL 30
		P-4010	Gold Wire: Lot#: <u>9001882915</u> Exp. Date: <u>3/21/2019</u>			0	4/4/18			QA TANDEX 5

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15849 BUSINESS CENTER DRIVE, IRWINDALE, CA. 91706 PH: (626)962-7166 FAX: (626) 960-6896

PROCESS FLOW CHART

FLOW NUMBER: DDS-101-04-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: CD4081B P/N AS RECEIVED: CD4081B
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-04-A
 LDC AS RECEIVED: 1810 LOT# 4454 WF23 QUANTITY RECEIVED: 30 (DIE)
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED: 10/5/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.
06	VIS		PERFORM 100% INTERNAL VISUAL PER MIL-STD-883 METHOD 2010 & MIL-PRF-38534 C.3.3.3, C.3.3.4.2. EQUIPMENT USED: <u>NIKON SMZ645</u> ASSET #: <u>30663</u>	17	0	17	4/9/18	TTL 30
			ESD MAT DUE DATE: <u>4/27/18</u>					
07	SEAL		SEAL DEVICES VACUUM BAKE: Pre Seal Bake Time: Temp: <u>125°C</u> Time: <u>24 hrs</u> Actual time in: <u>9:36 - 4/9/18</u> Actual time out: <u>9:55 - 4/10/18</u> FURNACE LDC STAMP Actual temp: <u>125°C</u> <u>1814</u> <u>TTL 30</u>	10+2	0	10+2	4/10/18	TTL 30
			ESD MAT DUE DATE: <u>4/27/18</u>					
08	ELEC		PERFORM 100% ELECTRICAL VERIFICATION TEST PER MFG DATA SHEET AND MIL-PRF-38534 @ AMBIENT OPERATING TEMPERATURE GO / NO GO EQUIPMENT USED: <u>Sony</u> ASSET #: <u>15599</u> +25°C TEST FIXTURE: <u>1327/1201</u> SOFTWARE ID: <u>S4081B</u> REV <u>N/A</u>	10+2	0	10+2	5/7/18	OK
			ESD MAT DUE DATE: <u>1/1/18</u>					
09	TEMP		PERFORM TEMPERATURE CYCLING PER MIL-STD-883 METHOD 1010 CONDITION C & MIL-PRF-38534 C.3.3.3. TEN (10) CYCLES DATE IN TIME IN TA = -65°C +0/-10 to +150°C +15/-0 10 MINUTES AT EXTREMES DATE OUT TIME OUT EQUIPMENT USED: <u>DELTA DESIGN</u> ASSET #: <u>30626</u> EQUIPMENT USED: <u>OMEGA HH309A</u> ASSET #: <u>31567</u>	10+2	0	10+2	5/7/18 2:38 PM	TTL 48
			ESD MAT DUE DATE: <u>5/27/18</u>					
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	0	10+2	5/15/18	TTL 52
			ESD MAT DUE DATE: <u>5/27/18</u>					
11	SER		SERIALIZE S/N: <u>01-10</u> S/N: <u>01-12</u> <u>4/9/18</u>	10+2	0	10+2	5/17/18	TTL 49
			ESD MAT DUE DATE: <u>5/27/18</u>					

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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-04-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: CD4081B P/N AS RECEIVED: CD4081B
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-04-A
 LDC AS RECEIVED: 1810 LOT# 4454 WF23 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>15599</u> TEST FIXTURE: <u>1377/1201</u> SOFTWARE ID: <u>54081B</u> REV <u>N/A</u> TEMPERATURE SOAK <u>10</u> SEC.	12	0	12	8/1/18	CTM
ESD MAT DUE DATE: <u>8/27/18</u>				12	0	12	8/29/18	TTL 10
				12	0	12	8/29/18	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) DATE IN: T = 240 HRS (min) TIME IN: BURN-IN BOARD # / DESC: <u>31252</u> DATE OUT: BURN-IN OVEN #: <u>21</u> TIME OUT:	12	0	12	8/23/18 7:00 AM	TTL 13
ESD MAT DUE DATE: <u>1 / 1</u>				12	0	12	9/4/18 6:00 AM	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>1093</u> TEST FIXTURE: <u>1377/1201</u> SOFTWARE ID: <u>4081B</u> REV <u>—</u> TEMPERATURE SOAK <u>10</u> SEC.	12	0	12	9/4/18	TTL 27
ESD MAT DUE DATE: <u>9/12/18</u>				12	0	12	9/4/18	TTL 27
				12	0	12	9/4/18	TTL 27
15	ER		PER PO REQUIREMENTS: REVIEW AT POST 240 HR. BURN-IN EMAIL: <u>ben.white@diedevices.com</u> POST 240 HR BURN-IN ELECTRICAL TEST DATA. HOLD FOR APPROVAL TO PROCEED DATE SENT: <u>9/6/18</u>				9/6/18	TANDEX QA

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

PAGE 1 OF 1

JOB NUMBER DDS-101-04-A

TEMPERATURE TA = +125°C MSN

PART NUMBER CD4081B

TEMP. METER # 31364

DATE CODE 1810 LOT# 4454 WF23

VOLTAGE VDD = +5V_{DC}

BURN-IN TIME 240 hrs Min

VOLT METER# 31223

θJC = N/A

POWER SUPPLY# 31110

BOARD# 31252

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
8/23/18	7:00AM	VDD = +5V _{DC}	I _{DD} = 0	125.3°C	CM	
8/24/18	6:45AM	VDD = +5V _{DC}	I _{DD} = 0	125.6°C	CM	
8/27/18	5:30AM	VDD = +5V _{DC}	I _{DD} = 0	125.8°C	CM	
8/28/18	10:20AM	VDD = +5V _{DC}	I _{DD} = 0	125.9°C	CM	
8/29/18	6:15AM	VDD = +5V _{DC}	I _{DD} = 0	126.4°C	CM	
8/30/18	6:00AM	VDD = +5V _{DC}	I _{DD} = 0	125.8°C	CM	
8/31/18	5:30AM	VDD = +5V _{DC}	I _{DD} = 0	126.3°C	CM	
9/3/18		NO DATA	TAKEN			
9/4/18	6:00AM	VDD = +5V _{DC}	I _{DD} = 0	126.8°C	CM	

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15849 BUSINESS CENTER DRIVE, IRWINDALE, CA. 91706 PH: (626)962-7166 FAX: (626) 960-6896

PROCESS FLOW CHART

FLOW NUMBER: DDS-101-04-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: CD4081B P/N AS RECEIVED: CD4081B
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-04-A
 LDC AS RECEIVED: 1810 LOT# 4454 WF23 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.
16	SSL		PERFORM STEADY STATE LIFE TEST PER MIL-PRF-38534 AND MIL-STD 883 METHOD 1005. TA = 125°C (min) T = 1000 HRS (min) DATE IN: 12 0 12 9/10/18 7:00AM TIME IN: DATE OUT: 12 0 12 10/22/18 5:45AM TIME OUT: BURN-IN BOARD # / DESC: <u>31252</u> BURN-IN OVEN #: <u>21</u>					TTL 13 TTL 13
			ESD MAT DUE DATE: <u>6/27/18</u>					
17	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 10/22/18 -55°C 12 0 12 1/2/19 +125°C 12 0 12 1/2/19 EQUIPMENT USED: <u>Sentry</u> ASSET#: <u>1093</u> TEST FIXTURE: <u>1377/1201</u> SOFTWARE ID: <u>4081B</u> REV <u> </u>					TTL 6 TTL 27 TTL 27
			ESD MAT DUE DATE: <u>10/27/18</u>					
18	DBP		PERFORM WIRE BOND PULL PER MIL-STD-883 METHOD 2011, & MIL-PRF-38534 C.3.3.3, C3.3.5. TEN (10) WIRES, *DO NOT USE ELECTRICAL TEST SAMPLES* EQUIPMENT USED: <u>DAGE</u> ASSET #: <u>30785</u>	5	0	5	8/20/18	TTL 4
19	SEM		PULLED 8 DEVICES AT SEQ. 05 AND TRANSFERRED TO: DDS-101-04-W	8		00	4/6/18	TTL 5 04 TANDEX

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DJS-101-04-A

TEMPERATURE TA = +125°C Min

PART NUMBER CD 4081 B

TEMP. METER # 31368

DATE CODE 1810 LOT# 4454 WF23

VOLTAGE VDD = +5VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

θJC = N/A

POWER SUPPLY# 31110

BOARD# 31252

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
9/10/18	7:00AM	VDD = +5VDC	I _{DD} = 0	126.22	CM	
9/11/18	6:00AM	VDD = +5VDC	I _{DD} = 0	126.0°C	CM	
9/12/18	NO	DATA	TAKEN			
9/13/18	9:25AM	VDD = +5VDC	I _{DD} = 0	125.8°C	CM	
9/14/18	8:55AM	VDD = +5VDC	I _{DD} = 0	126.5°C	CM	
9/17/18	8:00AM	VDD = +5VDC	I _{DD} = 0	126.4°C	CM	
9/18/18	5:50AM	VDD = +5VDC	I _{DD} = 0	126.6°C	CM	
9/19/18	5:30AM	VDD = +5VDC	I _{DD} = 0	126.2°C	CM	
9/20/18	7:30AM	VDD = +5VDC	I _{DD} = 0	126.3°C	CM	
9/21/18	NO	DATA	TAKEN			

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

PAGE 2 OF 4

JOB NUMBER DJS-101-04-A

TEMPERATURE TA = +125°C Min

PART NUMBER CD 4081 B

TEMP. METER # 31368

DATE CODE 1810 LOT# 4454 WF23

VOLTAGE VDD = +5VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 31110

BOARD# 31252

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
9/24/18	NO	DATA	TAKEN			
9/25/18	5:30AM	VDD = +5VDC	I _{DD} = 0	126.2°C	CM	
9/26/18	6:00AM	VDD = +5VDC	I _{DD} = 0	126.3°C	CM	
9/27/18	6:30AM	VDD = +5VDC	I _{DD} = 0	126.7°C	CM	
9/28/18	6:50AM	VDD = +5VDC	I _{DD} = 0	127.2°C	CM	
10/1/18	6:00AM	VDD = +5VDC	I _{DD} = 0	127.7°C	CM	
10/2/18	8:40AM	VDD = +5VDC	I _{DD} = 0	126.6°C	CM	
10/3/18	7:30AM	VDD = +5VDC	I _{DD} = 0	127.4°C	CM	
10/4/18	7:00AM	VDD = +5VDC	I _{DD} = 0	125.5°C	CM	
10/5/18	6:00AM	VDD = +5VDC	I _{DD} = 0	127.6°C	CM	

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-04-A

TEMPERATURE TA = +125°C MM

PART NUMBER CD 4081 B

TEMP. METER# 31368

DATE CODE 1810 LOT# 4454 WF23

VOLTAGE VDD = +5VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 31110

BOARD# 31252

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
10/8/18	5:30AM	VDD = +5VDC	IDD = 0	127.1°C	CM	
10/9/18	NO	DATA	TAKEN			
10/10/18	6:00AM	VDD = +5VDC	IDD = 0	126.8°C	CM	
10/11/18	5:30AM	VDD = +5VDC	IDD = 0	127.4°C	CM	
10/12/18	5:10AM	VDD = +5VDC	IDD = 0	126.4°C	CM	
10/15/18	6:10AM	VDD = +5VDC	IDD = 0	127.0°C	CM	
10/16/18	7:26AM	VDD = +5VDC	IDD = 0	126.5°C	CM	
10/17/18	12:50PM	VDD = +5VDC	IDD = 0	127.1°C	CM	
10/18/18	12:35AM	VDD = +5VDC	IDD = 0	126.6°C	CM	

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DJS-101-04-A

TEMPERATURE TA = +125°C Min

PART NUMBER CD 4081 B

TEMP. METER# 31368

DATE CODE 1810 LOT# 4454 WF23

VOLTAGE VDD = +5VDC

VOLT METER# 31223

BURN-IN TIME 1000hrs Min

POWER SUPPLY# 31110

ΘJC = N/A

BOARD# 31252

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
10/19/18	9:45 AM	VDD = +5VDC	I DD = 0	126.1°C	CM	
10/22/18						

TANDEX TEST LABS TTL# DDS-101-04-A
BOND PULL
BOND STRENGTH TESTING

TTL Job No. DDS-101-04-A	Part Number CD4081B	Part Type CMOS LOGIC MICROCIRCUIT	Date Aug 20, 2018
Lot Date Code LOT# 4454 W# 23 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	4.5	G	1	5.0	G	1	4.5	G	1	5.5	G	1	3.5	G	1		
2	5.0	G	2	5.0	G	2	4.5	G	2	6.5	G	2	5.5	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-101-04-A REV. 0

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: CD4081B P/N AS RECEIVED: CD4081B
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-04-A
 LDC AS RECEIVED: 1810 LOT# 4454 WF23 QUANTITY RECEIVED: 30 (DIE)
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED: 105/8

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	∅	17	1/17/19	QA TANDEX 5
21	PKG		USE ORIGINAL OR TANDEX PACKAGING.	17	∅	17	1/17/19	QA TANDEX 5
22	QAR	P-1213	TANDEX QUALITY ASSURANCE REVIEW. SHIP VIA: SHIP / BILL TO: DIE DEVICES 47 WHERRY ROAD NORWICH, NR1, IWS UNITED KINGDOM VAT GB#114 3513 56 * INCLUDES 10 ACCEPT 5 BOND PULL 2 SPARES **8 TRANSFERRED TO DDS-101-04-W FOR SEM	* 17			1/17/19	QA TANDEX 5



MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at -55°C



STAT1 08/20/11 09:52
 TEST PROGRAM 4081B S/N 1
 DDS-101-04-A PN CD4081B TEST SEQ12 -55C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VDD= 5
 VIH= 3.500 VIL= 1.500

 VOH TEST
 VDD= 5
 VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

 VOL TEST
 VDD= 5
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

 IOH TEST
 VDD= 5
 IOH LIMIT -640.0E-06
 VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-910.0UA		-640.0UA
265	4	-910.0UA		-640.0UA
271	10	-900.0UA		-640.0UA
277	11	-900.0UA		-640.0UA

 IOH2 TEST

VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST # PIN MEASURED LT GT
301 3 -4.500MA -2.000MA
307 4 -4.500MA -2.000MA
313 10 -4.500MA -2.000MA
319 11 -4.400MA -2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST # PIN MEASURED LT GT
343 3 1.620MA 640.0UA
349 4 1.630MA 640.0UA
355 10 1.600MA 640.0UA
361 11 1.610MA 640.0UA

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST # PIN MEASURED LT GT
194 3 9.970 V 9.950 V
198 4 9.970 V 9.950 V
202 10 9.970 V 9.950 V
206 11 9.970 V 9.950 V

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST # PIN MEASURED LT GT
259 3 -1.910MA -1.600MA
265 4 -1.900MA -1.600MA
271 10 -1.870MA -1.600MA
277 11 -1.880MA -1.600MA

IOL TEST
VDD= 10

IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 3.430MA 1.600MA
349 4 3.420MA 1.600MA
355 10 3.340MA 1.600MA
361 11 3.350MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 30.03MV 50.00MV
227 4 20.02MV 50.00MV
231 10 30.03MV 50.00MV
235 11 30.03MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -7.200MA -4.200MA
265 4 -7.200MA -4.200MA
271 10 -7.100MA -4.200MA
277 11 -7.100MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 12.70MA 4.200MA
349 4 12.50MA 4.200MA
355 10 12.20MA 4.200MA
361 11 12.30MA 4.200MA

IIL TEST
VDD= 18
IIL LIMIT -0.1UA @25C & -55C

IIL LIMIT -1.0UA @ +125C

```
-----  
INST #  PIN  MEASURED      LT          GT  
410     1   -10.00NA    -100.0NA  
414     2    -9.000NA    -100.0NA  
418     5   -10.00NA    -100.0NA  
422     6    -9.000NA    -100.0NA  
426     8    -8.000NA    -100.0NA  
430     9    -8.000NA    -100.0NA  
434    12    -8.000NA    -100.0NA  
438    13    -8.000NA    -100.0NA  
-----
```

```
-----  
      IIH TEST  
      VDD =      18  
      IIH LIMIT 0.1UA @ 25C & -55C  
      IIH LIMIT 1.0UA @ 125C  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
460     1    8.000NA      100.0NA  
464     2    6.000NA      100.0NA  
468     5    6.000NA      100.0NA  
472     6    5.000NA      100.0NA  
476     8    4.000NA      100.0NA  
480     9    4.000NA      100.0NA  
484    12    3.000NA      100.0NA  
488    13    3.000NA      100.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD =      5  
      IDD LIMIT 250.0E-09  
      VIN =      5  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14   -38.00NA     250.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD=      5  
      IDD LIMIT 250.0E-09  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14   -5.000NA     250.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD =     10  
      IDD LIMIT 500.0E-09  
      VIN =     10  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14   -27.00NA     500.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD=     10  
      IDD LIMIT 500.0E-09  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14      0 A      500.0NA  
-----
```

IDD TEST
VDD = 15
IDD LIMIT 1.000E-06
VIN = 15

INST # PIN MEASURED LT GT
533 14 -16.00NA 1.000UA

IDD TEST
VDD= 15
IDD LIMIT 1.000E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 2.000NA 1.000UA

IDD TEST
VDD = 20
IDD LIMIT 5.000E-06
VIN = 20

INST # PIN MEASURED LT GT
533 14 -5.000NA 5.000UA

IDD TEST
VDD= 20
IDD LIMIT 5.000E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 4.000NA 5.000UA

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

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TEST PROGRAM 4081B S/N 2

DDS-101-04-A PN CD4081B TEST SEQ12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	560.1MV	100.0MV	1.500 V
72	4	560.1MV	100.0MV	1.500 V
72	10	560.1MV	100.0MV	1.500 V
72	11	560.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-940.0UA		-640.0UA
265	4	-930.0UA		-640.0UA
271	10	-930.0UA		-640.0UA
277	11	-940.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.600MA		-2.000MA
307	4	-4.600MA		-2.000MA
313	10	-4.500MA		-2.000MA
319	11	-4.600MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.700MA	640.0UA	
349	4	1.710MA	640.0UA	
355	10	1.690MA	640.0UA	
361	11	1.680MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.980 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.960MA		-1.600MA
265	4	-1.940MA		-1.600MA
271	10	-1.940MA		-1.600MA
277	11	-1.960MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.620MA	1.600MA	
349	4	3.580MA	1.600MA	
355	10	3.580MA	1.600MA	
361	11	3.570MA	1.600MA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -4.200E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-7.500MA		-4.200MA
265	4	-7.300MA		-4.200MA
271	10	-7.400MA		-4.200MA
277	11	-7.400MA		-4.200MA

IOL TEST
 VDD= 15
 IOL LIMIT 4.200E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	13.50MA	4.200MA	
349	4	13.20MA	4.200MA	
355	10	13.30MA	4.200MA	
361	11	13.30MA	4.200MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -10.00NA -100.0NA
414 2 -9.000NA -100.0NA
418 5 -10.00NA -100.0NA
422 6 -9.000NA -100.0NA
426 8 -8.000NA -100.0NA
430 9 -8.000NA -100.0NA
434 12 -8.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 8.000NA 100.0NA
464 2 6.000NA 100.0NA
468 5 6.000NA 100.0NA
472 6 5.000NA 100.0NA
476 8 4.000NA 100.0NA
480 9 4.000NA 100.0NA
484 12 3.000NA 100.0NA
488 13 3.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -38.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -27.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

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TEST PROGRAM 4081B S/N 3

DDS-101-04-A PN CD4081B TEST SEQ12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	560.1MV	100.0MV	1.500 V
72	4	560.1MV	100.0MV	1.500 V
72	10	560.1MV	100.0MV	1.500 V
72	11	560.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-940.0UA		-640.0UA
265	4	-940.0UA		-640.0UA
271	10	-920.0UA		-640.0UA
277	11	-920.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.600MA		-2.000MA
307	4	-4.600MA		-2.000MA
313	10	-4.500MA		-2.000MA
319	11	-4.500MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.710MA	640.0UA	
349	4	1.700MA	640.0UA	
355	10	1.690MA	640.0UA	
361	11	1.690MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.970MA		-1.600MA
265	4	-1.960MA		-1.600MA
271	10	-1.940MA		-1.600MA
277	11	-1.930MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.670MA      1.600MA
    349   4   3.630MA      1.600MA
    355  10   3.590MA      1.600MA
    361  11   3.580MA      1.600MA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.98 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    223   3  20.02MV      50.00MV
    227   4  20.02MV      50.00MV
    231  10  20.02MV      50.00MV
    235  11  20.02MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    259   3  -7.500MA     -4.200MA
    265   4  -7.400MA     -4.200MA
    271  10  -7.300MA     -4.200MA
    277  11  -7.400MA     -4.200MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3  13.70MA      4.200MA
    349   4  13.50MA      4.200MA
    355  10  13.40MA      4.200MA
    361  11  13.30MA      4.200MA
-----

```

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -10.00NA -100.0NA
414 2 -9.000NA -100.0NA
418 5 -10.00NA -100.0NA
422 6 -9.000NA -100.0NA
426 8 -8.000NA -100.0NA
430 9 -9.000NA -100.0NA
434 12 -8.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 8.000NA 100.0NA
464 2 5.000NA 100.0NA
468 5 6.000NA 100.0NA
472 6 5.000NA 100.0NA
476 8 4.000NA 100.0NA
480 9 4.000NA 100.0NA
484 12 3.000NA 100.0NA
488 13 3.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -39.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -6.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -26.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS      PASS      EOT

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 4

DDS-101-04-A PN CD4081B TEST SEQ12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-560.1MV	-1.500 V	-100.0MV
72	3	560.1MV	100.0MV	1.500 V
72	4	560.1MV	100.0MV	1.500 V
72	10	560.1MV	100.0MV	1.500 V
72	11	560.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-940.0UA		-640.0UA
265	4	-930.0UA		-640.0UA
271	10	-930.0UA		-640.0UA
277	11	-930.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.600MA		-2.000MA
307	4	-4.600MA		-2.000MA
313	10	-4.600MA		-2.000MA
319	11	-4.600MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.700MA	640.0UA	
349	4	1.690MA	640.0UA	
355	10	1.700MA	640.0UA	
361	11	1.700MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.980 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.960MA		-1.600MA
265	4	-1.940MA		-1.600MA
271	10	-1.940MA		-1.600MA
277	11	-1.940MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 3.610MA 1.600MA
349 4 3.590MA 1.600MA
355 10 3.600MA 1.600MA
361 11 3.570MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -7.500MA -4.200MA
265 4 -7.400MA -4.200MA
271 10 -7.300MA -4.200MA
277 11 -7.400MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 13.50MA 4.200MA
349 4 13.30MA 4.200MA
355 10 13.30MA 4.200MA
361 11 13.20MA 4.200MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -10.00NA    -100.0NA
414     2    -9.000NA    -100.0NA
418     5   -10.00NA    -100.0NA
422     6    -9.000NA    -100.0NA
426     8    -8.000NA    -100.0NA
430     9    -8.000NA    -100.0NA
434    12    -7.000NA    -100.0NA
438    13    -8.000NA    -100.0NA
  
```

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

```

-----
INST #  PIN  MEASURED      LT          GT
460     1    8.000NA     100.0NA
464     2    5.000NA     100.0NA
468     5    6.000NA     100.0NA
472     6    5.000NA     100.0NA
476     8    4.000NA     100.0NA
480     9    4.000NA     100.0NA
484    12    3.000NA     100.0NA
488    13    3.000NA     100.0NA
  
```

IDD TEST
 VDD = 5
 IDD LIMIT 250.0E-09
 VIN = 5

```

-----
INST #  PIN  MEASURED      LT          GT
533    14   -38.00NA     250.0NA
  
```

IDD TEST
 VDD= 5
 IDD LIMIT 250.0E-09
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14   -5.000NA     250.0NA
  
```

IDD TEST
 VDD = 10
 IDD LIMIT 500.0E-09
 VIN = 10

```

-----
INST #  PIN  MEASURED      LT          GT
533    14   -27.00NA     500.0NA
  
```

IDD TEST
 VDD= 10
 IDD LIMIT 500.0E-09
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14    0 A          500.0NA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT   1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT   1.000E-06
      VIN =       0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT   5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT   5.000E-06
      VIN =       0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 5

DDS-101-04-A PN CD4081B TEST SEQ12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-560.1MV	-1.500 V	-100.0MV
72	3	560.1MV	100.0MV	1.500 V
72	4	560.1MV	100.0MV	1.500 V
72	10	560.1MV	100.0MV	1.500 V
72	11	560.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-970.0UA		-640.0UA
265	4	-970.0UA		-640.0UA
271	10	-950.0UA		-640.0UA
277	11	-960.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.700MA		-2.000MA
307	4	-4.700MA		-2.000MA
313	10	-4.600MA		-2.000MA
319	11	-4.700MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.700MA	640.0UA	
349	4	1.680MA	640.0UA	
355	10	1.690MA	640.0UA	
361	11	1.710MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-2.030MA		-1.600MA
265	4	-2.010MA		-1.600MA
271	10	-1.980MA		-1.600MA
277	11	-2.010MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 3.670MA 1.600MA
349 4 3.590MA 1.600MA
355 10 3.600MA 1.600MA
361 11 3.640MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -7.700MA -4.200MA
265 4 -7.600MA -4.200MA
271 10 -7.500MA -4.200MA
277 11 -7.600MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 13.70MA 4.200MA
349 4 13.40MA 4.200MA
355 10 13.30MA 4.200MA
361 11 13.50MA 4.200MA

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -9.000NA -100.0NA
414 2 -9.000NA -100.0NA
418 5 -10.00NA -100.0NA
422 6 -10.00NA -100.0NA
426 8 -9.000NA -100.0NA
430 9 -11.00NA -100.0NA
434 12 -7.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 8.000NA 100.0NA
464 2 5.000NA 100.0NA
468 5 5.000NA 100.0NA
472 6 6.000NA 100.0NA
476 8 4.000NA 100.0NA
480 9 4.000NA 100.0NA
484 12 3.000NA 100.0NA
488 13 3.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -39.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -27.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA


```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 6

DDS-101-04-A PN CD4081B TEST SEQ12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-560.1MV	-1.500 V	-100.0MV
72	3	560.1MV	100.0MV	1.500 V
72	4	560.1MV	100.0MV	1.500 V
72	10	560.1MV	100.0MV	1.500 V
72	11	560.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-950.0UA		-640.0UA
265	4	-950.0UA		-640.0UA
271	10	-950.0UA		-640.0UA
277	11	-960.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.600MA		-2.000MA
307	4	-4.600MA		-2.000MA
313	10	-4.700MA		-2.000MA
319	11	-4.700MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.760MA	640.0UA	
349	4	1.760MA	640.0UA	
355	10	1.760MA	640.0UA	
361	11	1.760MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-2.020MA		-1.600MA
265	4	-2.010MA		-1.600MA
271	10	-2.020MA		-1.600MA
277	11	-2.030MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 3.790MA 1.600MA
349 4 3.790MA 1.600MA
355 10 3.780MA 1.600MA
361 11 3.780MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 30.03MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -7.700MA -4.200MA
265 4 -7.700MA -4.200MA
271 10 -7.700MA -4.200MA
277 11 -7.800MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 14.20MA 4.200MA
349 4 14.10MA 4.200MA
355 10 14.10MA 4.200MA
361 11 14.10MA 4.200MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -10.00NA    -100.0NA
414     2    -8.000NA    -100.0NA
418     5   -10.00NA    -100.0NA
422     6   -12.00NA    -100.0NA
426     8   -10.00NA    -100.0NA
430     9   -11.00NA    -100.0NA
434    12    -7.000NA    -100.0NA
438    13    -8.000NA    -100.0NA
  
```

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

```

-----
INST #  PIN  MEASURED      LT          GT
460     1    8.000NA     100.0NA
464     2    5.000NA     100.0NA
468     5    5.000NA     100.0NA
472     6   10.00NA     100.0NA
476     8    5.000NA     100.0NA
480     9    6.000NA     100.0NA
484    12    3.000NA     100.0NA
488    13    3.000NA     100.0NA
  
```

IDD TEST
 VDD = 5
 IDD LIMIT 250.0E-09
 VIN = 5

```

-----
INST #  PIN  MEASURED      LT          GT
533    14   -39.00NA     250.0NA
  
```

IDD TEST
 VDD= 5
 IDD LIMIT 250.0E-09
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14   -6.000NA     250.0NA
  
```

IDD TEST
 VDD = 10
 IDD LIMIT 500.0E-09
 VIN = 10

```

-----
INST #  PIN  MEASURED      LT          GT
533    14   -27.00NA     500.0NA
  
```

IDD TEST
 VDD= 10
 IDD LIMIT 500.0E-09
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14    0 A          500.0NA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -17.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 7

DDS-101-04-A PN CD4081B TEST SEQ12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-560.1MV	-1.500 V	-100.0MV
72	3	560.1MV	100.0MV	1.500 V
72	4	560.1MV	100.0MV	1.500 V
72	10	560.1MV	100.0MV	1.500 V
72	11	560.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-980.0UA		-640.0UA
265	4	-980.0UA		-640.0UA
271	10	-970.0UA		-640.0UA
277	11	-970.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.800MA		-2.000MA
307	4	-4.800MA		-2.000MA
313	10	-4.800MA		-2.000MA
319	11	-4.800MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.700MA	640.0UA	
349	4	1.710MA	640.0UA	
355	10	1.710MA	640.0UA	
361	11	1.700MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-2.040MA		-1.600MA
265	4	-2.060MA		-1.600MA
271	10	-2.050MA		-1.600MA
277	11	-2.040MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 3.630MA 1.600MA
349 4 3.710MA 1.600MA
355 10 3.680MA 1.600MA
361 11 3.650MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 30.03MV 50.00MV
231 10 20.02MV 50.00MV
235 11 30.03MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -7.700MA -4.200MA
265 4 -7.800MA -4.200MA
271 10 -7.800MA -4.200MA
277 11 -7.700MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 13.50MA 4.200MA
349 4 13.90MA 4.200MA
355 10 13.70MA 4.200MA
361 11 13.60MA 4.200MA

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -9.000NA -100.0NA
414 2 -9.000NA -100.0NA
418 5 -11.00NA -100.0NA
422 6 -18.00NA -100.0NA
426 8 -10.00NA -100.0NA
430 9 -15.00NA -100.0NA
434 12 -8.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 8.000NA 100.0NA
464 2 5.000NA 100.0NA
468 5 7.000NA 100.0NA
472 6 21.00NA 100.0NA
476 8 5.000NA 100.0NA
480 9 11.00NA 100.0NA
484 12 2.000NA 100.0NA
488 13 3.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -38.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -27.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS      PASS      EOT

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 8

DDS-101-04-A PN CD4081B TEST SEQ12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-560.1MV	-1.500 V	-100.0MV
72	3	560.1MV	100.0MV	1.500 V
72	4	560.1MV	100.0MV	1.500 V
72	10	560.1MV	100.0MV	1.500 V
72	11	560.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-980.0UA		-640.0UA
265	4	-990.0UA		-640.0UA
271	10	-990.0UA		-640.0UA
277	11	-980.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.800MA		-2.000MA
307	4	-4.900MA		-2.000MA
313	10	-4.900MA		-2.000MA
319	11	-4.800MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.810MA	640.0UA	
349	4	1.830MA	640.0UA	
355	10	1.800MA	640.0UA	
361	11	1.800MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.980 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-2.060MA		-1.600MA
265	4	-2.080MA		-1.600MA
271	10	-2.080MA		-1.600MA
277	11	-2.080MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.870MA      1.600MA
    349   4   3.910MA      1.600MA
    355  10   3.840MA      1.600MA
    361  11   3.810MA      1.600MA
-----
```

```
-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----
```

```
-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    194   3   14.98 V      14.95 V
    198   4   14.98 V      14.95 V
    202  10   14.98 V      14.95 V
    206  11   14.98 V      14.95 V
-----
```

```
-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    223   3   20.02MV      50.00MV
    227   4   30.03MV      50.00MV
    231  10   20.02MV      50.00MV
    235  11   20.02MV      50.00MV
-----
```

```
-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    259   3   -7.800MA     -4.200MA
    265   4   -7.900MA     -4.200MA
    271  10   -7.900MA     -4.200MA
    277  11   -7.900MA     -4.200MA
-----
```

```
-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3   14.40MA      4.200MA
    349   4   14.60MA      4.200MA
    355  10   14.30MA      4.200MA
    361  11   14.20MA      4.200MA
-----
```

```
-----
IIL TEST
-----
```

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT      GT
410     1   -9.000NA    -100.0NA
414     2   -8.000NA    -100.0NA
418     5  -11.000NA   -100.0NA
422     6  -28.000NA   -100.0NA
426     8  -11.000NA   -100.0NA
430     9  -24.000NA   -100.0NA
434    12   -7.000NA    -100.0NA
438    13   -8.000NA    -100.0NA
  
```

```

-----
      IIH TEST
      VDD =      18
      IIH LIMIT 0.1UA @ 25C & -55C
      IIH LIMIT 1.0UA @ 125C
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
460     1    8.000NA      100.0NA
464     2    5.000NA      100.0NA
468     5    8.000NA      100.0NA
472     6   55.000NA     100.0NA
476     8    6.000NA      100.0NA
480     9   24.000NA     100.0NA
484    12    3.000NA      100.0NA
488    13    3.000NA      100.0NA
  
```

```

-----
      IDD TEST
      VDD =      5
      IDD LIMIT 250.0E-09
      VIN =      5
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
533    14  -39.000NA      250.0NA
  
```

```

-----
      IDD TEST
      VDD=      5
      IDD LIMIT 250.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
549    14   -6.000NA      250.0NA
  
```

```

-----
      IDD TEST
      VDD =     10
      IDD LIMIT 500.0E-09
      VIN =     10
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
533    14  -27.000NA      500.0NA
  
```

```

-----
      IDD TEST
      VDD=     10
      IDD LIMIT 500.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
549    14      0 A      500.0NA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```


STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 9

DDS-101-04-A PN CD4081B TEST SEQ12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-560.1MV	-1.500 V	-100.0MV
72	3	560.1MV	100.0MV	1.500 V
72	4	560.1MV	100.0MV	1.500 V
72	10	560.1MV	100.0MV	1.500 V
72	11	560.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-950.0UA		-640.0UA
265	4	-960.0UA		-640.0UA
271	10	-950.0UA		-640.0UA
277	11	-940.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.700MA		-2.000MA
307	4	-4.700MA		-2.000MA
313	10	-4.600MA		-2.000MA
319	11	-4.600MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.710MA	640.0UA	
349	4	1.730MA	640.0UA	
355	10	1.730MA	640.0UA	
361	11	1.710MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.980MA		-1.600MA
265	4	-2.000MA		-1.600MA
271	10	-1.980MA		-1.600MA
277	11	-1.990MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 3.610MA 1.600MA
349 4 3.680MA 1.600MA
355 10 3.670MA 1.600MA
361 11 3.640MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 30.03MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -7.500MA -4.200MA
265 4 -7.600MA -4.200MA
271 10 -7.500MA -4.200MA
277 11 -7.500MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 13.40MA 4.200MA
349 4 13.70MA 4.200MA
355 10 13.70MA 4.200MA
361 11 13.50MA 4.200MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -9.000NA    -100.0NA
414     2   -9.000NA    -100.0NA
418     5  -11.000NA   -100.0NA
422     6  -24.000NA   -100.0NA
426     8  -11.000NA   -100.0NA
430     9  -21.000NA   -100.0NA
434    12  -7.000NA    -100.0NA
438    13  -8.000NA    -100.0NA
  
```

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

```

-----
INST #  PIN  MEASURED      LT          GT
460     1   8.000NA     100.0NA
464     2   5.000NA     100.0NA
468     5   7.000NA     100.0NA
472     6  29.000NA    100.0NA
476     8   6.000NA     100.0NA
480     9  18.000NA    100.0NA
484    12   3.000NA     100.0NA
488    13   3.000NA     100.0NA
  
```

IDD TEST
 VDD = 5
 IDD LIMIT 250.0E-09
 VIN = 5

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -38.00NA     250.0NA
  
```

IDD TEST
 VDD= 5
 IDD LIMIT 250.0E-09
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14  -5.000NA     250.0NA
  
```

IDD TEST
 VDD = 10
 IDD LIMIT 500.0E-09
 VIN = 10

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -27.00NA     500.0NA
  
```

IDD TEST
 VDD= 10
 IDD LIMIT 500.0E-09
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14   0 A          500.0NA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 10

DDS-101-04-A PN CD4081B TEST SEQ12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-560.1MV	-1.500 V	-100.0MV
72	3	560.1MV	100.0MV	1.500 V
72	4	560.1MV	100.0MV	1.500 V
72	10	560.1MV	100.0MV	1.500 V
72	11	560.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-980.0UA		-640.0UA
265	4	-980.0UA		-640.0UA
271	10	-970.0UA		-640.0UA
277	11	-980.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.800MA		-2.000MA
307	4	-4.800MA		-2.000MA
313	10	-4.800MA		-2.000MA
319	11	-4.800MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.780MA	640.0UA	
349	4	1.810MA	640.0UA	
355	10	1.790MA	640.0UA	
361	11	1.780MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-2.040MA		-1.600MA
265	4	-2.060MA		-1.600MA
271	10	-2.050MA		-1.600MA
277	11	-2.060MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.760MA	1.600MA	
349	4	3.830MA	1.600MA	
355	10	3.820MA	1.600MA	
361	11	3.770MA	1.600MA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -4.200E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-7.800MA		-4.200MA
265	4	-7.800MA		-4.200MA
271	10	-7.800MA		-4.200MA
277	11	-7.900MA		-4.200MA

IOL TEST
 VDD= 15
 IOL LIMIT 4.200E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	13.90MA	4.200MA	
349	4	14.20MA	4.200MA	
355	10	14.20MA	4.200MA	
361	11	13.90MA	4.200MA	

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

INST #	PIN	MEASURED	LT	GT
410	1	-9.000NA	-100.0NA	
414	2	-9.000NA	-100.0NA	
418	5	-11.00NA	-100.0NA	
422	6	-27.00NA	-100.0NA	
426	8	-11.00NA	-100.0NA	
430	9	-23.00NA	-100.0NA	
434	12	-7.000NA	-100.0NA	
438	13	-8.000NA	-100.0NA	

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

INST #	PIN	MEASURED	LT	GT
460	1	8.000NA		100.0NA
464	2	5.000NA		100.0NA
468	5	8.000NA		100.0NA
472	6	54.00NA		100.0NA
476	8	7.000NA		100.0NA
480	9	23.00NA		100.0NA
484	12	3.000NA		100.0NA
488	13	2.000NA		100.0NA

IDD TEST
 VDD = 5
 IDD LIMIT 250.0E-09
 VIN = 5

INST #	PIN	MEASURED	LT	GT
533	14	-38.00NA		250.0NA

IDD TEST
 VDD= 5
 IDD LIMIT 250.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	-5.000NA		250.0NA

IDD TEST
 VDD = 10
 IDD LIMIT 500.0E-09
 VIN = 10

INST #	PIN	MEASURED	LT	GT
533	14	-27.00NA		500.0NA

IDD TEST
 VDD= 10
 IDD LIMIT 500.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	-2.000NA		500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT   1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT   1.000E-06
      VIN =       0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT   5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT   5.000E-06
      VIN =       0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 11

DDS-101-04-A PN CD4081B TEST SEQ12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-560.1MV	-1.500 V	-100.0MV
72	3	560.1MV	100.0MV	1.500 V
72	4	560.1MV	100.0MV	1.500 V
72	10	560.1MV	100.0MV	1.500 V
72	11	560.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-980.0UA		-640.0UA
265	4	-980.0UA		-640.0UA
271	10	-980.0UA		-640.0UA
277	11	-990.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.800MA		-2.000MA
307	4	-4.800MA		-2.000MA
313	10	-4.800MA		-2.000MA
319	11	-4.800MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.800MA	640.0UA	
349	4	1.830MA	640.0UA	
355	10	1.820MA	640.0UA	
361	11	1.820MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.980 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.980 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-2.060MA		-1.600MA
265	4	-2.060MA		-1.600MA
271	10	-2.070MA		-1.600MA
277	11	-2.080MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    3.830MA      1.600MA
349    4    3.870MA      1.600MA
355   10    3.870MA      1.600MA
361   11    3.850MA      1.600MA

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
194    3    14.98 V      14.95 V
198    4    14.98 V      14.95 V
202   10    14.98 V      14.95 V
206   11    14.98 V      14.95 V

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
223    3    20.02MV      50.00MV
227    4    20.02MV      50.00MV
231   10    30.03MV      50.00MV
235   11    20.02MV      50.00MV

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
259    3    -7.800MA     -4.200MA
265    4    -7.800MA     -4.200MA
271   10    -7.900MA     -4.200MA
277   11    -7.900MA     -4.200MA

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    14.20MA      4.200MA
349    4    14.40MA      4.200MA
355   10    14.40MA      4.200MA
361   11    14.30MA      4.200MA

```

```

-----
IIL TEST

```

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -8.000NA -100.0NA
414 2 -8.000NA -100.0NA
418 5 -13.00NA -100.0NA
422 6 -47.00NA -100.0NA
426 8 -12.00NA -100.0NA
430 9 -39.00NA -100.0NA
434 12 -7.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 8.000NA 100.0NA
464 2 5.000NA 100.0NA
468 5 13.00NA 100.0NA
472 6 56.00NA 100.0NA
476 8 7.000NA 100.0NA
480 9 38.00NA 100.0NA
484 12 3.000NA 100.0NA
488 13 3.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -38.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -27.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 12

DDS-101-04-A PN CD4081B TEST SEQ12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-560.1MV	-1.500 V	-100.0MV
72	3	560.1MV	100.0MV	1.500 V
72	4	560.1MV	100.0MV	1.500 V
72	10	560.1MV	100.0MV	1.500 V
72	11	560.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-930.0UA		-640.0UA
265	4	-930.0UA		-640.0UA
271	10	-930.0UA		-640.0UA
277	11	-930.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.600MA		-2.000MA
307	4	-4.600MA		-2.000MA
313	10	-4.600MA		-2.000MA
319	11	-4.600MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.690MA	640.0UA	
349	4	1.700MA	640.0UA	
355	10	1.710MA	640.0UA	
361	11	1.700MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.980 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.980 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.960MA		-1.600MA
265	4	-1.950MA		-1.600MA
271	10	-1.960MA		-1.600MA
277	11	-1.970MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 3.570MA 1.600MA
349 4 3.570MA 1.600MA
355 10 3.640MA 1.600MA
361 11 3.620MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 30.03MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -7.400MA -4.200MA
265 4 -7.400MA -4.200MA
271 10 -7.400MA -4.200MA
277 11 -7.500MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 13.20MA 4.200MA
349 4 13.20MA 4.200MA
355 10 13.50MA 4.200MA
361 11 13.40MA 4.200MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

INST #	PIN	MEASURED	LT	GT
410	1	-9.000NA	-100.0NA	
414	2	-9.000NA	-100.0NA	
418	5	-11.00NA	-100.0NA	
422	6	-77.00NA	-100.0NA	
426	8	-25.00NA	-100.0NA	
430	9	-88.00NA	-100.0NA	
434	12	-7.000NA	-100.0NA	
438	13	-8.000NA	-100.0NA	

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

INST #	PIN	MEASURED	LT	GT
460	1	8.000NA		100.0NA
464	2	5.000NA		100.0NA
468	5	6.000NA		100.0NA
472	6	94.00NA		100.0NA
476	8	24.00NA		100.0NA
480	9	99.00NA		100.0NA
484	12	3.000NA		100.0NA
488	13	3.000NA		100.0NA

IDD TEST
 VDD = 5
 IDD LIMIT 250.0E-09
 VIN = 5

INST #	PIN	MEASURED	LT	GT
533	14	-38.00NA		250.0NA

IDD TEST
 VDD= 5
 IDD LIMIT 250.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	-5.000NA		250.0NA

IDD TEST
 VDD = 10
 IDD LIMIT 500.0E-09
 VIN = 10

INST #	PIN	MEASURED	LT	GT
533	14	-27.00NA		500.0NA

IDD TEST
 VDD= 10
 IDD LIMIT 500.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	-2.000NA		500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```



MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at 25°C



STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 1
DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	30.03MV		50.00MV
231	10	30.03MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-890.0UA		-640.0UA
265	4	-890.0UA		-640.0UA
271	10	-880.0UA		-640.0UA
277	11	-880.0UA		-640.0UA

IOH2 TEST

VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST # PIN MEASURED LT GT
301 3 -4.400MA -2.000MA
307 4 -4.400MA -2.000MA
313 10 -4.400MA -2.000MA
319 11 -4.300MA -2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST # PIN MEASURED LT GT
343 3 1.580MA 640.0UA
349 4 1.590MA 640.0UA
355 10 1.570MA 640.0UA
361 11 1.570MA 640.0UA

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST # PIN MEASURED LT GT
194 3 9.970 V 9.950 V
198 4 9.970 V 9.950 V
202 10 9.970 V 9.950 V
206 11 9.970 V 9.950 V

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 30.03MV 50.00MV
227 4 30.03MV 50.00MV
231 10 30.03MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST # PIN MEASURED LT GT
259 3 -1.830MA -1.600MA
265 4 -1.840MA -1.600MA
271 10 -1.810MA -1.600MA
277 11 -1.820MA -1.600MA

IOL TEST
VDD= 10

IOL LIMIT 1.600E-03
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.300MA	1.600MA	
349	4	3.350MA	1.600MA	
355	10	3.240MA	1.600MA	
361	11	3.260MA	1.600MA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-7.000MA		-4.200MA
265	4	-7.000MA		-4.200MA
271	10	-6.900MA		-4.200MA
277	11	-6.900MA		-4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	12.10MA	4.200MA	
349	4	12.30MA	4.200MA	
355	10	11.90MA	4.200MA	
361	11	11.90MA	4.200MA	

IIL TEST
VDD= 18
IIL LIMIT -0.1UA @25C & -55C

IIL LIMIT -1.0UA @ +125C

```
-----  
INST #  PIN  MEASURED      LT          GT  
410     1   -9.000NA    -100.0NA  
414     2   -8.000NA    -100.0NA  
418     5  -10.000NA   -100.0NA  
422     6   -8.000NA    -100.0NA  
426     8   -8.000NA    -100.0NA  
430     9   -8.000NA    -100.0NA  
434    12   -7.000NA    -100.0NA  
438    13   -8.000NA    -100.0NA  
-----
```

```
-----  
      IIH TEST  
      VDD =      18  
      IIH LIMIT 0.1UA @ 25C & -55C  
      IIH LIMIT 1.0UA @ 125C  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
460     1   6.000NA     100.0NA  
464     2   4.000NA     100.0NA  
468     5   5.000NA     100.0NA  
472     6   4.000NA     100.0NA  
476     8   3.000NA     100.0NA  
480     9   3.000NA     100.0NA  
484    12   2.000NA     100.0NA  
488    13   2.000NA     100.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD =      5  
      IDD LIMIT 250.0E-09  
      VIN =      5  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14  -37.00NA    250.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD=      5  
      IDD LIMIT 250.0E-09  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14  -4.000NA    250.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD =     10  
      IDD LIMIT 500.0E-09  
      VIN =     10  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14  -37.00NA    500.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD=     10  
      IDD LIMIT 500.0E-09  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14  -4.000NA    500.0NA  
-----
```

IDD TEST
VDD = 15
IDD LIMIT 1.000E-06
VIN = 15

INST # PIN MEASURED LT GT
533 14 -36.00NA 1.000UA

IDD TEST
VDD= 15
IDD LIMIT 1.000E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 1.000UA

IDD TEST
VDD = 20
IDD LIMIT 5.000E-06
VIN = 20

INST # PIN MEASURED LT GT
533 14 -36.00NA 5.000UA

IDD TEST
VDD= 20
IDD LIMIT 5.000E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 5.000UA

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

STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 2

DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-910.0UA		-640.0UA
265	4	-910.0UA		-640.0UA
271	10	-900.0UA		-640.0UA
277	11	-910.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.500MA		-2.000MA
307	4	-4.400MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.500MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.640MA	640.0UA	
349	4	1.660MA	640.0UA	
355	10	1.630MA	640.0UA	
361	11	1.630MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.880MA		-1.600MA
265	4	-1.890MA		-1.600MA
271	10	-1.870MA		-1.600MA
277	11	-1.890MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    3.440MA      1.600MA
349    4    3.520MA      1.600MA
355   10    3.430MA      1.600MA
361   11    3.430MA      1.600MA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
194    3    14.98 V      14.95 V
198    4    14.97 V      14.95 V
202   10    14.97 V      14.95 V
206   11    14.98 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
223    3    20.02MV      50.00MV
227    4    30.03MV      50.00MV
231   10    30.03MV      50.00MV
235   11    30.03MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
259    3    -7.100MA     -4.200MA
265    4    -7.200MA     -4.200MA
271   10    -7.100MA     -4.200MA
277   11    -7.200MA     -4.200MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    12.70MA      4.200MA
349    4    13.00MA      4.200MA
355   10    12.70MA      4.200MA
361   11    12.60MA      4.200MA
-----

```

```

-----
IIL TEST
-----

```

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -8.000NA -100.0NA
414 2 -8.000NA -100.0NA
418 5 -10.00NA -100.0NA
422 6 -8.000NA -100.0NA
426 8 -8.000NA -100.0NA
430 9 -8.000NA -100.0NA
434 12 -7.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 6.000NA 100.0NA
464 2 4.000NA 100.0NA
468 5 5.000NA 100.0NA
472 6 4.000NA 100.0NA
476 8 3.000NA 100.0NA
480 9 3.000NA 100.0NA
484 12 2.000NA 100.0NA
488 13 2.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -37.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -37.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                5.000UA

```

```

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

```

STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 3

DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-910.0UA		-640.0UA
265	4	-920.0UA		-640.0UA
271	10	-900.0UA		-640.0UA
277	11	-890.0UA		-640.0UA


```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.500MA		-2.000MA
307	4	-4.500MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.400MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.650MA	640.0UA	
349	4	1.670MA	640.0UA	
355	10	1.640MA	640.0UA	
361	11	1.630MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.890MA		-1.600MA
265	4	-1.910MA		-1.600MA
271	10	-1.850MA		-1.600MA
277	11	-1.860MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    3.470MA      1.600MA
349    4    3.530MA      1.600MA
355   10    3.440MA      1.600MA
361   11    3.420MA      1.600MA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
194    3    14.98 V      14.95 V
198    4    14.98 V      14.95 V
202   10    14.98 V      14.95 V
206   11    14.98 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
223    3    20.02MV      50.00MV
227    4    30.03MV      50.00MV
231   10    20.02MV      50.00MV
235   11    20.02MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
259    3    -7.200MA     -4.200MA
265    4    -7.200MA     -4.200MA
271   10    -7.100MA     -4.200MA
277   11    -7.100MA     -4.200MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    12.80MA      4.200MA
349    4    13.20MA      4.200MA
355   10    12.70MA      4.200MA
361   11    12.60MA      4.200MA
-----

```

```

-----
IIL TEST
-----

```

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -8.000NA    -100.0NA
414     2   -8.000NA    -100.0NA
418     5  -10.000NA   -100.0NA
422     6   -8.000NA    -100.0NA
426     8   -8.000NA    -100.0NA
430     9   -8.000NA    -100.0NA
434    12   -7.000NA    -100.0NA
438    13   -8.000NA    -100.0NA
  
```

```

-----
      IIH TEST
      VDD =      18
      IIH LIMIT 0.1UA @ 25C & -55C
      IIH LIMIT 1.0UA @ 125C
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
460     1    6.000NA          100.0NA
464     2    4.000NA          100.0NA
468     5    5.000NA          100.0NA
472     6    4.000NA          100.0NA
476     8    3.000NA          100.0NA
480     9    3.000NA          100.0NA
484    12    2.000NA          100.0NA
488    13    2.000NA          100.0NA
  
```

```

-----
      IDD TEST
      VDD =      5
      IDD LIMIT 250.0E-09
      VIN =      5
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -37.00NA          250.0NA
  
```

```

-----
      IDD TEST
      VDD=      5
      IDD LIMIT 250.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14  -4.000NA          250.0NA
  
```

```

-----
      IDD TEST
      VDD =     10
      IDD LIMIT 500.0E-09
      VIN =     10
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -37.00NA          500.0NA
  
```

```

-----
      IDD TEST
      VDD=     10
      IDD LIMIT 500.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14  -4.000NA          500.0NA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                5.000UA

```

```

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

```

STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 4

DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-910.0UA		-640.0UA
265	4	-920.0UA		-640.0UA
271	10	-910.0UA		-640.0UA
277	11	-900.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.500MA		-2.000MA
307	4	-4.500MA		-2.000MA
313	10	-4.500MA		-2.000MA
319	11	-4.400MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.630MA	640.0UA	
349	4	1.660MA	640.0UA	
355	10	1.640MA	640.0UA	
361	11	1.630MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.880MA		-1.600MA
265	4	-1.890MA		-1.600MA
271	10	-1.870MA		-1.600MA
277	11	-1.860MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.440MA      1.600MA
    349   4   3.510MA      1.600MA
    355  10   3.450MA      1.600MA
    361  11   3.410MA      1.600MA
-----
```

```
-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----
```

```
-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.97 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
-----
```

```
-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    223   3  20.02MV      50.00MV
    227   4  30.03MV      50.00MV
    231  10  20.02MV      50.00MV
    235  11  20.02MV      50.00MV
-----
```

```
-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    259   3  -7.100MA     -4.200MA
    265   4  -7.200MA     -4.200MA
    271  10  -7.100MA     -4.200MA
    277  11  -7.100MA     -4.200MA
-----
```

```
-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3  12.70MA      4.200MA
    349   4  13.00MA      4.200MA
    355  10  12.70MA      4.200MA
    361  11  12.50MA      4.200MA
-----
```

```
-----
IIL TEST
-----
```

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -8.000NA    -100.0NA
414     2   -8.000NA    -100.0NA
418     5  -10.000NA   -100.0NA
422     6   -8.000NA    -100.0NA
426     8   -8.000NA    -100.0NA
430     9   -8.000NA    -100.0NA
434    12   -7.000NA    -100.0NA
438    13   -8.000NA    -100.0NA
  
```

```

-----
      IIH TEST
      VDD =      18
      IIH LIMIT 0.1UA @ 25C & -55C
      IIH LIMIT 1.0UA @ 125C
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
460     1    6.000NA          100.0NA
464     2    4.000NA          100.0NA
468     5    5.000NA          100.0NA
472     6    3.000NA          100.0NA
476     8    3.000NA          100.0NA
480     9    3.000NA          100.0NA
484    12    2.000NA          100.0NA
488    13    2.000NA          100.0NA
  
```

```

-----
      IDD TEST
      VDD =      5
      IDD LIMIT 250.0E-09
      VIN =      5
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -38.00NA          250.0NA
  
```

```

-----
      IDD TEST
      VDD=      5
      IDD LIMIT 250.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14  -6.000NA          250.0NA
  
```

```

-----
      IDD TEST
      VDD =     10
      IDD LIMIT 500.0E-09
      VIN =     10
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -38.00NA          500.0NA
  
```

```

-----
      IDD TEST
      VDD=     10
      IDD LIMIT 500.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14  -6.000NA          500.0NA
  
```



```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -38.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -6.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -38.00NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -6.000NA                5.000UA

```

```

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

```

STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 5

DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-920.0UA		-640.0UA
265	4	-930.0UA		-640.0UA
271	10	-910.0UA		-640.0UA
277	11	-920.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.500MA		-2.000MA
307	4	-4.500MA		-2.000MA
313	10	-4.500MA		-2.000MA
319	11	-4.500MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.610MA	640.0UA	
349	4	1.610MA	640.0UA	
355	10	1.620MA	640.0UA	
361	11	1.610MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.980 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.910MA		-1.600MA
265	4	-1.930MA		-1.600MA
271	10	-1.880MA		-1.600MA
277	11	-1.910MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
343     3    3.410MA      1.600MA
349     4    3.440MA      1.600MA
355    10    3.400MA      1.600MA
361    11    3.430MA      1.600MA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
194     3    14.97 V      14.95 V
198     4    14.98 V      14.95 V
202    10    14.98 V      14.95 V
206    11    14.97 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
223     3    30.03MV      50.00MV
227     4    20.02MV      50.00MV
231    10    30.03MV      50.00MV
235    11    20.02MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
259     3    -7.300MA     -4.200MA
265     4    -7.300MA     -4.200MA
271    10    -7.100MA     -4.200MA
277    11    -7.200MA     -4.200MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
343     3    12.60MA      4.200MA
349     4    12.80MA      4.200MA
355    10    12.60MA      4.200MA
361    11    12.70MA      4.200MA
-----

```

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

INST #	PIN	MEASURED	LT	GT
410	1	-9.000NA	-100.0NA	
414	2	-8.000NA	-100.0NA	
418	5	-10.00NA	-100.0NA	
422	6	-8.000NA	-100.0NA	
426	8	-8.000NA	-100.0NA	
430	9	-8.000NA	-100.0NA	
434	12	-7.000NA	-100.0NA	
438	13	-8.000NA	-100.0NA	

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

INST #	PIN	MEASURED	LT	GT
460	1	6.000NA		100.0NA
464	2	4.000NA		100.0NA
468	5	5.000NA		100.0NA
472	6	4.000NA		100.0NA
476	8	3.000NA		100.0NA
480	9	3.000NA		100.0NA
484	12	2.000NA		100.0NA
488	13	2.000NA		100.0NA

IDD TEST
 VDD = 5
 IDD LIMIT 250.0E-09
 VIN = 5

INST #	PIN	MEASURED	LT	GT
533	14	-37.00NA		250.0NA

IDD TEST
 VDD= 5
 IDD LIMIT 250.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	-4.000NA		250.0NA

IDD TEST
 VDD = 10
 IDD LIMIT 500.0E-09
 VIN = 10

INST #	PIN	MEASURED	LT	GT
533	14	-36.00NA		500.0NA

IDD TEST
 VDD= 10
 IDD LIMIT 500.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	-4.000NA		500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                5.000UA

```

```

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

```

STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 6

DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-900.0UA		-640.0UA
265	4	-900.0UA		-640.0UA
271	10	-900.0UA		-640.0UA
277	11	-900.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.400MA		-2.000MA
307	4	-4.400MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.400MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.630MA	640.0UA	
349	4	1.660MA	640.0UA	
355	10	1.640MA	640.0UA	
361	11	1.630MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.870MA		-1.600MA
265	4	-1.870MA		-1.600MA
271	10	-1.870MA		-1.600MA
277	11	-1.880MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 3.440MA 1.600MA
349 4 3.520MA 1.600MA
355 10 3.450MA 1.600MA
361 11 3.450MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.97 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 30.03MV 50.00MV
227 4 20.02MV 50.00MV
231 10 30.03MV 50.00MV
235 11 30.03MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -7.100MA -4.200MA
265 4 -7.100MA -4.200MA
271 10 -7.100MA -4.200MA
277 11 -7.200MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 12.70MA 4.200MA
349 4 13.10MA 4.200MA
355 10 12.80MA 4.200MA
361 11 12.70MA 4.200MA

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -8.000NA -100.0NA
414 2 -8.000NA -100.0NA
418 5 -9.000NA -100.0NA
422 6 -8.000NA -100.0NA
426 8 -8.000NA -100.0NA
430 9 -8.000NA -100.0NA
434 12 -7.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 6.000NA 100.0NA
464 2 4.000NA 100.0NA
468 5 5.000NA 100.0NA
472 6 4.000NA 100.0NA
476 8 3.000NA 100.0NA
480 9 3.000NA 100.0NA
484 12 2.000NA 100.0NA
488 13 2.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -37.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -37.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                5.000UA

```

```

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

```

STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 7

DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	30.03MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-900.0UA		-640.0UA
265	4	-900.0UA		-640.0UA
271	10	-890.0UA		-640.0UA
277	11	-890.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.400MA		-2.000MA
307	4	-4.400MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.400MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.620MA	640.0UA	
349	4	1.640MA	640.0UA	
355	10	1.630MA	640.0UA	
361	11	1.600MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.860MA		-1.600MA
265	4	-1.890MA		-1.600MA
271	10	-1.850MA		-1.600MA
277	11	-1.850MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.400MA      1.600MA
    349   4   3.480MA      1.600MA
    355  10   3.410MA      1.600MA
    361  11   3.370MA      1.600MA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.98 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.97 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    223   3  30.03MV      50.00MV
    227   4  20.02MV      50.00MV
    231  10  30.03MV      50.00MV
    235  11  30.03MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    259   3  -7.100MA     -4.200MA
    265   4  -7.200MA     -4.200MA
    271  10  -7.000MA     -4.200MA
    277  11  -7.000MA     -4.200MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3  12.60MA      4.200MA
    349   4  12.90MA      4.200MA
    355  10  12.60MA      4.200MA
    361  11  12.40MA      4.200MA
-----

```

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT      GT
410     1   -9.000NA    -100.0NA
414     2   -8.000NA    -100.0NA
418     5  -10.000NA   -100.0NA
422     6   -8.000NA    -100.0NA
426     8   -8.000NA    -100.0NA
430     9   -8.000NA    -100.0NA
434    12   -7.000NA    -100.0NA
438    13   -8.000NA    -100.0NA
  
```

```

-----
      IIH TEST
      VDD =      18
      IIH LIMIT 0.1UA @ 25C & -55C
      IIH LIMIT 1.0UA @ 125C
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
460     1   6.000NA     100.0NA
464     2   4.000NA     100.0NA
468     5   4.000NA     100.0NA
472     6   4.000NA     100.0NA
476     8   3.000NA     100.0NA
480     9   3.000NA     100.0NA
484    12   2.000NA     100.0NA
488    13   2.000NA     100.0NA
  
```

```

-----
      IDD TEST
      VDD =      5
      IDD LIMIT 250.0E-09
      VIN =      5
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
533    14  -38.00NA    250.0NA
  
```

```

-----
      IDD TEST
      VDD=      5
      IDD LIMIT 250.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
549    14  -6.000NA    250.0NA
  
```

```

-----
      IDD TEST
      VDD =     10
      IDD LIMIT 500.0E-09
      VIN =     10
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
533    14  -38.00NA    500.0NA
  
```

```

-----
      IDD TEST
      VDD=     10
      IDD LIMIT 500.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
549    14  -6.000NA    500.0NA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -38.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -6.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -38.00NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -6.000NA                5.000UA

```

```

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

```


STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 8

DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	30.03MV		50.00MV
231	10	30.03MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-900.0UA		-640.0UA
265	4	-910.0UA		-640.0UA
271	10	-900.0UA		-640.0UA
277	11	-890.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.400MA		-2.000MA
307	4	-4.400MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.400MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.640MA	640.0UA	
349	4	1.660MA	640.0UA	
355	10	1.620MA	640.0UA	
361	11	1.620MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.870MA		-1.600MA
265	4	-1.890MA		-1.600MA
271	10	-1.870MA		-1.600MA
277	11	-1.860MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.460MA	1.600MA	
349	4	3.530MA	1.600MA	
355	10	3.420MA	1.600MA	
361	11	3.390MA	1.600MA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.97 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -4.200E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-7.100MA		-4.200MA
265	4	-7.200MA		-4.200MA
271	10	-7.100MA		-4.200MA
277	11	-7.100MA		-4.200MA

IOL TEST
 VDD= 15
 IOL LIMIT 4.200E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	12.80MA	4.200MA	
349	4	13.10MA	4.200MA	
355	10	12.60MA	4.200MA	
361	11	12.40MA	4.200MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -8.000NA -100.0NA
414 2 -8.000NA -100.0NA
418 5 -10.00NA -100.0NA
422 6 -8.000NA -100.0NA
426 8 -8.000NA -100.0NA
430 9 -8.000NA -100.0NA
434 12 -7.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 6.000NA 100.0NA
464 2 4.000NA 100.0NA
468 5 5.000NA 100.0NA
472 6 4.000NA 100.0NA
476 8 3.000NA 100.0NA
480 9 3.000NA 100.0NA
484 12 2.000NA 100.0NA
488 13 2.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -37.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -36.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -37.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -6.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -38.00NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -6.000NA                5.000UA

```

```

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

```

STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 9

DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	30.03MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-910.0UA		-640.0UA
265	4	-920.0UA		-640.0UA
271	10	-910.0UA		-640.0UA
277	11	-900.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.500MA		-2.000MA
307	4	-4.500MA		-2.000MA
313	10	-4.500MA		-2.000MA
319	11	-4.400MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.570MA	640.0UA	
349	4	1.600MA	640.0UA	
355	10	1.590MA	640.0UA	
361	11	1.570MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.980 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	30.03MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.890MA		-1.600MA
265	4	-1.910MA		-1.600MA
271	10	-1.880MA		-1.600MA
277	11	-1.880MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.350MA      1.600MA
    349   4   3.440MA      1.600MA
    355  10   3.370MA      1.600MA
    361  11   3.330MA      1.600MA
-----
```

```
-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----
```

```
-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.97 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
-----
```

```
-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    223   3  20.02MV      50.00MV
    227   4  20.02MV      50.00MV
    231  10  20.02MV      50.00MV
    235  11  30.03MV      50.00MV
-----
```

```
-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    259   3  -7.200MA     -4.200MA
    265   4  -7.300MA     -4.200MA
    271  10  -7.100MA     -4.200MA
    277  11  -7.100MA     -4.200MA
-----
```

```
-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3  12.40MA      4.200MA
    349   4  12.80MA      4.200MA
    355  10  12.50MA      4.200MA
    361  11  12.30MA      4.200MA
-----
```

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -9.000NA -100.0NA
414 2 -8.000NA -100.0NA
418 5 -10.00NA -100.0NA
422 6 -8.000NA -100.0NA
426 8 -8.000NA -100.0NA
430 9 -8.000NA -100.0NA
434 12 -7.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 6.000NA 100.0NA
464 2 4.000NA 100.0NA
468 5 5.000NA 100.0NA
472 6 4.000NA 100.0NA
476 8 3.000NA 100.0NA
480 9 3.000NA 100.0NA
484 12 2.000NA 100.0NA
488 13 2.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -37.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -6.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -38.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -6.000NA 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -38.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -6.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -38.00NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -6.000NA                5.000UA

```

```

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

```

STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 10

DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	30.03MV		50.00MV
231	10	30.03MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-900.0UA		-640.0UA
265	4	-900.0UA		-640.0UA
271	10	-880.0UA		-640.0UA
277	11	-890.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.400MA		-2.000MA
307	4	-4.400MA		-2.000MA
313	10	-4.300MA		-2.000MA
319	11	-4.400MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.640MA	640.0UA	
349	4	1.640MA	640.0UA	
355	10	1.620MA	640.0UA	
361	11	1.610MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.860MA		-1.600MA
265	4	-1.880MA		-1.600MA
271	10	-1.840MA		-1.600MA
277	11	-1.860MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.430MA      1.600MA
    349   4   3.470MA      1.600MA
    355  10   3.400MA      1.600MA
    361  11   3.370MA      1.600MA
  
```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----
  
```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.97 V      14.95 V
    198   4  14.97 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
  
```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    223   3  20.02MV      50.00MV
    227   4  30.03MV      50.00MV
    231  10  20.02MV      50.00MV
    235  11  20.02MV      50.00MV
  
```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    259   3  -7.100MA     -4.200MA
    265   4  -7.100MA     -4.200MA
    271  10  -7.000MA     -4.200MA
    277  11  -7.100MA     -4.200MA
  
```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3  12.60MA      4.200MA
    349   4  12.80MA      4.200MA
    355  10  12.50MA      4.200MA
    361  11  12.40MA      4.200MA
  
```

```

-----
IIL TEST
  
```

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -8.000NA -100.0NA
414 2 -8.000NA -100.0NA
418 5 -10.00NA -100.0NA
422 6 -8.000NA -100.0NA
426 8 -8.000NA -100.0NA
430 9 -8.000NA -100.0NA
434 12 -7.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 6.000NA 100.0NA
464 2 4.000NA 100.0NA
468 5 5.000NA 100.0NA
472 6 4.000NA 100.0NA
476 8 3.000NA 100.0NA
480 9 3.000NA 100.0NA
484 12 2.000NA 100.0NA
488 13 2.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -37.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -36.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                5.000UA

```

```

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

```

STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 11

DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-900.0UA		-640.0UA
265	4	-890.0UA		-640.0UA
271	10	-890.0UA		-640.0UA
277	11	-900.0UA		-640.0UA


```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.400MA		-2.000MA
307	4	-4.400MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.400MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.650MA	640.0UA	
349	4	1.660MA	640.0UA	
355	10	1.630MA	640.0UA	
361	11	1.620MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.860MA		-1.600MA
265	4	-1.870MA		-1.600MA
271	10	-1.860MA		-1.600MA
277	11	-1.860MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    3.460MA      1.600MA
349    4    3.510MA      1.600MA
355   10    3.440MA      1.600MA
361   11    3.400MA      1.600MA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
194    3    14.98 V      14.95 V
198    4    14.98 V      14.95 V
202   10    14.98 V      14.95 V
206   11    14.97 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
223    3    20.02MV      50.00MV
227    4    30.03MV      50.00MV
231   10    20.02MV      50.00MV
235   11    30.03MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
259    3    -7.100MA     -4.200MA
265    4    -7.100MA     -4.200MA
271   10    -7.000MA     -4.200MA
277   11    -7.100MA     -4.200MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    12.80MA      4.200MA
349    4    13.00MA      4.200MA
355   10    12.70MA      4.200MA
361   11    12.50MA      4.200MA
-----

```

```

-----
IIL TEST
-----

```

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -9.000NA -100.0NA
414 2 -8.000NA -100.0NA
418 5 -10.00NA -100.0NA
422 6 -8.000NA -100.0NA
426 8 -8.000NA -100.0NA
430 9 -8.000NA -100.0NA
434 12 -7.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 7.000NA 100.0NA
464 2 4.000NA 100.0NA
468 5 5.000NA 100.0NA
472 6 4.000NA 100.0NA
476 8 3.000NA 100.0NA
480 9 3.000NA 100.0NA
484 12 2.000NA 100.0NA
488 13 2.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -36.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -36.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                5.000UA

```

```

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

```

STAT1 08/01/11 08:19
TEST PROGRAM 4081B S/N 12

DDS-101-04-A PN CD4081B TEST SEQ12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-900.0UA		-640.0UA
265	4	-900.0UA		-640.0UA
271	10	-880.0UA		-640.0UA
277	11	-890.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.400MA		-2.000MA
307	4	-4.400MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.400MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.620MA	640.0UA	
349	4	1.620MA	640.0UA	
355	10	1.610MA	640.0UA	
361	11	1.600MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	30.03MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.870MA		-1.600MA
265	4	-1.860MA		-1.600MA
271	10	-1.850MA		-1.600MA
277	11	-1.840MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.430MA	1.600MA	
349	4	3.440MA	1.600MA	
355	10	3.410MA	1.600MA	
361	11	3.380MA	1.600MA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.97 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-7.100MA		-4.200MA
265	4	-7.100MA		-4.200MA
271	10	-7.000MA		-4.200MA
277	11	-7.000MA		-4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	12.70MA	4.200MA	
349	4	12.70MA	4.200MA	
355	10	12.60MA	4.200MA	
361	11	12.40MA	4.200MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -8.000NA -100.0NA
414 2 -8.000NA -100.0NA
418 5 -10.00NA -100.0NA
422 6 -8.000NA -100.0NA
426 8 -8.000NA -100.0NA
430 9 -8.000NA -100.0NA
434 12 -7.000NA -100.0NA
438 13 -8.000NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 6.000NA 100.0NA
464 2 4.000NA 100.0NA
468 5 5.000NA 100.0NA
472 6 3.000NA 100.0NA
476 8 3.000NA 100.0NA
480 9 3.000NA 100.0NA
484 12 2.000NA 100.0NA
488 13 2.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -37.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -36.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 500.0NA


```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -36.00NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  -4.000NA                5.000UA

```

```

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

```



MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at +125°C



STAT1 08/20/11 09:52
 TEST PROGRAM 4081B S/N 1
 DDS-101-04-A PN CD4081B TEST SEQ12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VDD= 5
 VIH= 3.500 VIL= 1.500

 VOH TEST
 VDD= 5
 VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

 VOL TEST
 VDD= 5
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

 IOH TEST
 VDD= 5
 IOH LIMIT -360.0E-06
 VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-880.0UA		-360.0UA
265	4	-880.0UA		-360.0UA
271	10	-870.0UA		-360.0UA
277	11	-870.0UA		-360.0UA

 IOH2 TEST

VDD= 5
IOH LIMIT -1.150E-03
VO = 2.500

INST # PIN MEASURED LT GT
301 3 -4.300MA -1.150MA
307 4 -4.400MA -1.150MA
313 10 -4.300MA -1.150MA
319 11 -4.300MA -1.150MA

IOL TEST
VDD= 5
IOL LIMIT 360.0E-06
VO= 400.0E-03

INST # PIN MEASURED LT GT
343 3 1.540MA 360.0UA
349 4 1.560MA 360.0UA
355 10 1.550MA 360.0UA
361 11 1.560MA 360.0UA

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST # PIN MEASURED LT GT
194 3 9.980 V 9.950 V
198 4 9.970 V 9.950 V
202 10 9.970 V 9.950 V
206 11 9.970 V 9.950 V

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 30.03MV 50.00MV
227 4 20.02MV 50.00MV
231 10 30.03MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 10
IOH LIMIT -900.0E-06
VO = 9.500

INST # PIN MEASURED LT GT
259 3 -1.800MA -900.0UA
265 4 -1.810MA -900.0UA
271 10 -1.800MA -900.0UA
277 11 -1.800MA -900.0UA

IOL TEST
VDD= 10

IOL LIMIT 900.0E-06
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.220MA	900.0UA	
349	4	3.260MA	900.0UA	
355	10	3.230MA	900.0UA	
361	11	3.250MA	900.0UA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	30.03MV		50.00MV
231	10	30.03MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-6.800MA		-2.400MA
265	4	-6.800MA		-2.400MA
271	10	-6.800MA		-2.400MA
277	11	-6.800MA		-2.400MA

IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	11.90MA	2.400MA	
349	4	12.00MA	2.400MA	
355	10	11.80MA	2.400MA	
361	11	11.90MA	2.400MA	

IIL TEST
VDD= 18
IIL LIMIT -0.1UA @25C & -55C

IIL LIMIT -1.0UA @ +125C

```
-----  
INST #  PIN  MEASURED      LT          GT  
410     1   -10.00NA    -1.000UA  
414     2    -9.000NA    -1.000UA  
418     5   -10.00NA    -1.000UA  
422     6    -9.000NA    -1.000UA  
426     8    -8.000NA    -1.000UA  
430     9    -8.000NA    -1.000UA  
434    12    -8.000NA    -1.000UA  
438    13    -8.000NA    -1.000UA  
-----
```

```
-----  
      IIH TEST  
      VDD =      18  
      IIH LIMIT 0.1UA @ 25C & -55C  
      IIH LIMIT 1.0UA @ 125C  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
460     1    8.000NA      1.000UA  
464     2    6.000NA      1.000UA  
468     5    6.000NA      1.000UA  
472     6    4.000NA      1.000UA  
476     8    4.000NA      1.000UA  
480     9    4.000NA      1.000UA  
484    12    3.000NA      1.000UA  
488    13    3.000NA      1.000UA  
-----
```

```
-----  
      IDD TEST  
      VDD =      5  
      IDD LIMIT 7.500E-06  
      VIN =      5  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14   -38.00NA     7.500UA  
-----
```

```
-----  
      IDD TEST  
      VDD=      5  
      IDD LIMIT 7.500E-06  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14   -5.000NA     7.500UA  
-----
```

```
-----  
      IDD TEST  
      VDD =     10  
      IDD LIMIT 15.00E-06  
      VIN =     10  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14   -26.00NA    15.00UA  
-----
```

```
-----  
      IDD TEST  
      VDD=     10  
      IDD LIMIT 15.00E-06  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14      0 A      15.00UA  
-----
```

IDD TEST
VDD = 15
IDD LIMIT 30.00E-06
VIN = 15

INST # PIN MEASURED LT GT
533 14 -16.00NA 30.00UA

IDD TEST
VDD= 15
IDD LIMIT 30.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 2.000NA 30.00UA

IDD TEST
VDD = 20
IDD LIMIT 150.0E-06
VIN = 20

INST # PIN MEASURED LT GT
533 14 -5.000NA 150.0UA

IDD TEST
VDD= 20
IDD LIMIT 150.0E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 5.000NA 150.0UA

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

STAT1 08/20/11 09:52
 TEST PROGRAM 4081B S/N 2
 DDS-101-04-A PN CD4081B TEST SEQ12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VDD= 5
 VIH= 3.500 VIL= 1.500

 VOH TEST
 VDD= 5
 VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

 VOL TEST
 VDD= 5
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

 IOH TEST
 VDD= 5
 IOH LIMIT -360.0E-06
 VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-870.0UA		-360.0UA
265	4	-870.0UA		-360.0UA
271	10	-870.0UA		-360.0UA
277	11	-870.0UA		-360.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -1.150E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.300MA		-1.150MA
307	4	-4.300MA		-1.150MA
313	10	-4.200MA		-1.150MA
319	11	-4.300MA		-1.150MA

IOL TEST
VDD= 5
IOL LIMIT 360.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.550MA	360.0UA	
349	4	1.580MA	360.0UA	
355	10	1.560MA	360.0UA	
361	11	1.560MA	360.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.980 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -900.0E-06
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.800MA		-900.0UA
265	4	-1.800MA		-900.0UA
271	10	-1.790MA		-900.0UA
277	11	-1.810MA		-900.0UA

IOL TEST
 VDD= 10
 IOL LIMIT 900.0E-06
 VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.250MA      900.0UA
    349   4   3.350MA      900.0UA
    355  10   3.270MA      900.0UA
    361  11   3.290MA      900.0UA
  
```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.98 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
  
```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    223   3  20.02MV      50.00MV
    227   4  20.02MV      50.00MV
    231  10  20.02MV      50.00MV
    235  11  20.02MV      50.00MV
  
```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    259   3  -6.800MA     -2.400MA
    265   4  -6.800MA     -2.400MA
    271  10  -6.800MA     -2.400MA
    277  11  -6.800MA     -2.400MA
  
```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3  11.90MA      2.400MA
    349   4  12.40MA      2.400MA
    355  10  12.10MA      2.400MA
    361  11  12.10MA      2.400MA
  
```

```

-----
IIL TEST
-----

```

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -10.00NA -1.000UA
414 2 -9.000NA -1.000UA
418 5 -11.00NA -1.000UA
422 6 -9.000NA -1.000UA
426 8 -8.000NA -1.000UA
430 9 -8.000NA -1.000UA
434 12 -8.000NA -1.000UA
438 13 -8.000NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 8.000NA 1.000UA
464 2 6.000NA 1.000UA
468 5 6.000NA 1.000UA
472 6 5.000NA 1.000UA
476 8 4.000NA 1.000UA
480 9 4.000NA 1.000UA
484 12 3.000NA 1.000UA
488 13 3.000NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 -38.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 -26.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   3.000NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -5.000NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   5.000NA                150.0UA

```

```

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

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 3

DDS-101-04-A PN CD4081B TEST SEQ12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-480.0MV	-1.500 V	-100.0MV
72	3	480.0MV	100.0MV	1.500 V
72	4	480.0MV	100.0MV	1.500 V
72	10	480.0MV	100.0MV	1.500 V
72	11	480.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-850.0UA		-360.0UA
265	4	-860.0UA		-360.0UA
271	10	-840.0UA		-360.0UA
277	11	-830.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.200MA		-1.150MA
307	4	-4.200MA		-1.150MA
313	10	-4.100MA		-1.150MA
319	11	-4.100MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT 360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.530MA	360.0UA	
349	4	1.540MA	360.0UA	
355	10	1.520MA	360.0UA	
361	11	1.520MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT 9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.770MA		-900.0UA
265	4	-1.780MA		-900.0UA
271	10	-1.740MA		-900.0UA
277	11	-1.740MA		-900.0UA

IOL TEST
 VDD= 10
 IOL LIMIT 900.0E-06
 VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.220MA      900.0UA
    349   4   3.290MA      900.0UA
    355  10   3.190MA      900.0UA
    361  11   3.190MA      900.0UA
  
```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----
  
```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.98 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
  
```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    223   3  20.02MV      50.00MV
    227   4  30.03MV      50.00MV
    231  10  20.02MV      50.00MV
    235  11  30.03MV      50.00MV
  
```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    259   3  -6.700MA     -2.400MA
    265   4  -6.800MA     -2.400MA
    271  10  -6.600MA     -2.400MA
    277  11  -6.600MA     -2.400MA
  
```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3  11.90MA      2.400MA
    349   4  12.20MA      2.400MA
    355  10  11.80MA      2.400MA
    361  11  11.80MA      2.400MA
  
```

```

-----
IIL TEST
  
```

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -10.00NA -1.000UA
414 2 -9.000NA -1.000UA
418 5 -11.00NA -1.000UA
422 6 -9.000NA -1.000UA
426 8 -8.000NA -1.000UA
430 9 -8.000NA -1.000UA
434 12 -8.000NA -1.000UA
438 13 -8.000NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 8.000NA 1.000UA
464 2 6.000NA 1.000UA
468 5 6.000NA 1.000UA
472 6 5.000NA 1.000UA
476 8 4.000NA 1.000UA
480 9 4.000NA 1.000UA
484 12 3.000NA 1.000UA
488 13 3.000NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 -38.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 -26.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 1.000NA 15.00UA


```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -15.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -4.000NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   6.000NA                150.0UA

```

```

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

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 4

DDS-101-04-A PN CD4081B TEST SEQ12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-880.0UA		-360.0UA
265	4	-870.0UA		-360.0UA
271	10	-860.0UA		-360.0UA
277	11	-870.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.300MA		-1.150MA
307	4	-4.300MA		-1.150MA
313	10	-4.200MA		-1.150MA
319	11	-4.200MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT 360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.560MA	360.0UA	
349	4	1.550MA	360.0UA	
355	10	1.550MA	360.0UA	
361	11	1.550MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT 9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.980 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.800MA		-900.0UA
265	4	-1.790MA		-900.0UA
271	10	-1.770MA		-900.0UA
277	11	-1.780MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 3.290MA 900.0UA
349 4 3.280MA 900.0UA
355 10 3.250MA 900.0UA
361 11 3.250MA 900.0UA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 30.03MV 50.00MV
231 10 30.03MV 50.00MV
235 11 30.03MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -6.800MA -2.400MA
265 4 -6.800MA -2.400MA
271 10 -6.700MA -2.400MA
277 11 -6.700MA -2.400MA

IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 12.10MA 2.400MA
349 4 12.10MA 2.400MA
355 10 11.90MA 2.400MA
361 11 11.90MA 2.400MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

INST #	PIN	MEASURED	LT	GT
410	1	-10.00NA	-1.000UA	
414	2	-9.000NA	-1.000UA	
418	5	-11.00NA	-1.000UA	
422	6	-10.00NA	-1.000UA	
426	8	-9.000NA	-1.000UA	
430	9	-9.000NA	-1.000UA	
434	12	-8.000NA	-1.000UA	
438	13	-8.000NA	-1.000UA	

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

INST #	PIN	MEASURED	LT	GT
460	1	9.000NA		1.000UA
464	2	6.000NA		1.000UA
468	5	6.000NA		1.000UA
472	6	5.000NA		1.000UA
476	8	4.000NA		1.000UA
480	9	4.000NA		1.000UA
484	12	3.000NA		1.000UA
488	13	3.000NA		1.000UA

IDD TEST
 VDD = 5
 IDD LIMIT 7.500E-06
 VIN = 5

INST #	PIN	MEASURED	LT	GT
533	14	-38.00NA		7.500UA

IDD TEST
 VDD= 5
 IDD LIMIT 7.500E-06
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	-5.000NA		7.500UA

IDD TEST
 VDD = 10
 IDD LIMIT 15.00E-06
 VIN = 10

INST #	PIN	MEASURED	LT	GT
533	14	-26.00NA		15.00UA

IDD TEST
 VDD= 10
 IDD LIMIT 15.00E-06
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	1.000NA		15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT   30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -16.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT   30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   3.000NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT   150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -4.000NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT   150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   5.000NA                150.0UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS     PASS     EOT

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 5

DDS-101-04-A PN CD4081B TEST SEQ12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-880.0UA		-360.0UA
265	4	-880.0UA		-360.0UA
271	10	-860.0UA		-360.0UA
277	11	-870.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.300MA		-1.150MA
307	4	-4.300MA		-1.150MA
313	10	-4.200MA		-1.150MA
319	11	-4.200MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.510MA	360.0UA	
349	4	1.500MA	360.0UA	
355	10	1.500MA	360.0UA	
361	11	1.510MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.980 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.980 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.800MA		-900.0UA
265	4	-1.800MA		-900.0UA
271	10	-1.760MA		-900.0UA
277	11	-1.790MA		-900.0UA

IOL TEST
 VDD= 10
 IOL LIMIT 900.0E-06
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.190MA	900.0UA	
349	4	3.170MA	900.0UA	
355	10	3.130MA	900.0UA	
361	11	3.180MA	900.0UA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -2.400E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-6.800MA		-2.400MA
265	4	-6.800MA		-2.400MA
271	10	-6.600MA		-2.400MA
277	11	-6.700MA		-2.400MA

IOL TEST
 VDD= 15
 IOL LIMIT 2.400E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	11.70MA	2.400MA	
349	4	11.70MA	2.400MA	
355	10	11.40MA	2.400MA	
361	11	11.70MA	2.400MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -10.00NA -1.000UA
414 2 -9.000NA -1.000UA
418 5 -11.00NA -1.000UA
422 6 -10.00NA -1.000UA
426 8 -9.000NA -1.000UA
430 9 -9.000NA -1.000UA
434 12 -8.000NA -1.000UA
438 13 -8.000NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 9.000NA 1.000UA
464 2 6.000NA 1.000UA
468 5 6.000NA 1.000UA
472 6 5.000NA 1.000UA
476 8 4.000NA 1.000UA
480 9 4.000NA 1.000UA
484 12 3.000NA 1.000UA
488 13 3.000NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 -38.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 -25.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 1.000NA 15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -15.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -3.000NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   7.000NA                150.0UA

```

```

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

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 6

DDS-101-04-A PN CD4081B TEST SEQ12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-480.0MV	-1.500 V	-100.0MV
72	3	480.0MV	100.0MV	1.500 V
72	4	480.0MV	100.0MV	1.500 V
72	10	480.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-840.0UA		-360.0UA
265	4	-840.0UA		-360.0UA
271	10	-830.0UA		-360.0UA
277	11	-840.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.100MA		-1.150MA
307	4	-4.100MA		-1.150MA
313	10	-4.100MA		-1.150MA
319	11	-4.100MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT 360.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.510MA	360.0UA	
349	4	1.520MA	360.0UA	
355	10	1.510MA	360.0UA	
361	11	1.520MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=     10
VIH=     7      VIL=     3
-----

```

```

-----
VOH TEST
VDD=     10
VOH LIMIT 9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=     10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=     10
IOH LIMIT -900.0E-06
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.750MA		-900.0UA
265	4	-1.740MA		-900.0UA
271	10	-1.730MA		-900.0UA
277	11	-1.760MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.210MA	900.0UA	
349	4	3.220MA	900.0UA	
355	10	3.180MA	900.0UA	
361	11	3.200MA	900.0UA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-6.600MA		-2.400MA
265	4	-6.600MA		-2.400MA
271	10	-6.600MA		-2.400MA
277	11	-6.700MA		-2.400MA

IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	11.90MA	2.400MA	
349	4	11.90MA	2.400MA	
355	10	11.70MA	2.400MA	
361	11	11.80MA	2.400MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -10.00NA -1.000UA
414 2 -10.00NA -1.000UA
418 5 -11.00NA -1.000UA
422 6 -10.00NA -1.000UA
426 8 -9.000NA -1.000UA
430 9 -9.000NA -1.000UA
434 12 -8.000NA -1.000UA
438 13 -8.000NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 9.000NA 1.000UA
464 2 6.000NA 1.000UA
468 5 6.000NA 1.000UA
472 6 5.000NA 1.000UA
476 8 4.000NA 1.000UA
480 9 4.000NA 1.000UA
484 12 3.000NA 1.000UA
488 13 3.000NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 -38.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 -26.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 1.000NA 15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -15.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -3.000NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   7.000NA                150.0UA

```

```

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

```


STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 7

DDS-101-04-A PN CD4081B TEST SEQ12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-880.0UA		-360.0UA
265	4	-880.0UA		-360.0UA
271	10	-870.0UA		-360.0UA
277	11	-860.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.300MA		-1.150MA
307	4	-4.300MA		-1.150MA
313	10	-4.200MA		-1.150MA
319	11	-4.200MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.500MA	360.0UA	
349	4	1.500MA	360.0UA	
355	10	1.500MA	360.0UA	
361	11	1.490MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.810MA		-900.0UA
265	4	-1.810MA		-900.0UA
271	10	-1.780MA		-900.0UA
277	11	-1.780MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.170MA	900.0UA	
349	4	3.210MA	900.0UA	
355	10	3.160MA	900.0UA	
361	11	3.140MA	900.0UA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-6.800MA		-2.400MA
265	4	-6.800MA		-2.400MA
271	10	-6.700MA		-2.400MA
277	11	-6.700MA		-2.400MA

IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	11.70MA	2.400MA	
349	4	11.80MA	2.400MA	
355	10	11.60MA	2.400MA	
361	11	11.60MA	2.400MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -10.00NA -1.000UA
414 2 -10.00NA -1.000UA
418 5 -11.00NA -1.000UA
422 6 -10.00NA -1.000UA
426 8 -9.000NA -1.000UA
430 9 -9.000NA -1.000UA
434 12 -8.000NA -1.000UA
438 13 -8.000NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 8.000NA 1.000UA
464 2 6.000NA 1.000UA
468 5 6.000NA 1.000UA
472 6 5.000NA 1.000UA
476 8 4.000NA 1.000UA
480 9 4.000NA 1.000UA
484 12 3.000NA 1.000UA
488 13 3.000NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 -38.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 -26.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 1.000NA 15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT   30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -15.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT   30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT   150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -3.000NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT   150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   7.000NA                150.0UA

```

```

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

```

STAT1 08/20/11 09:52
 TEST PROGRAM 4081B S/N 8
 DDS-101-04-A PN CD4081B TEST SEQ12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VDD= 5
 VIH= 3.500 VIL= 1.500

 VOH TEST
 VDD= 5
 VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

 VOL TEST
 VDD= 5
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

 IOH TEST
 VDD= 5
 IOH LIMIT -360.0E-06
 VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-860.0UA		-360.0UA
265	4	-860.0UA		-360.0UA
271	10	-860.0UA		-360.0UA
277	11	-850.0UA		-360.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -1.150E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.200MA		-1.150MA
307	4	-4.200MA		-1.150MA
313	10	-4.200MA		-1.150MA
319	11	-4.200MA		-1.150MA

IOL TEST
VDD= 5
IOL LIMIT 360.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.560MA	360.0UA	
349	4	1.560MA	360.0UA	
355	10	1.530MA	360.0UA	
361	11	1.520MA	360.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.980 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -900.0E-06
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.780MA		-900.0UA
265	4	-1.780MA		-900.0UA
271	10	-1.770MA		-900.0UA
277	11	-1.770MA		-900.0UA

IOL TEST
 VDD= 10
 IOL LIMIT 900.0E-06
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.290MA	900.0UA	
349	4	3.290MA	900.0UA	
355	10	3.210MA	900.0UA	
361	11	3.210MA	900.0UA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -2.400E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-6.700MA		-2.400MA
265	4	-6.800MA		-2.400MA
271	10	-6.700MA		-2.400MA
277	11	-6.700MA		-2.400MA

IOL TEST
 VDD= 15
 IOL LIMIT 2.400E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	12.10MA	2.400MA	
349	4	12.20MA	2.400MA	
355	10	11.80MA	2.400MA	
361	11	11.80MA	2.400MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -10.00NA -1.000UA
414 2 -10.00NA -1.000UA
418 5 -11.00NA -1.000UA
422 6 -10.00NA -1.000UA
426 8 -9.000NA -1.000UA
430 9 -9.000NA -1.000UA
434 12 -8.000NA -1.000UA
438 13 -8.000NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 8.000NA 1.000UA
464 2 6.000NA 1.000UA
468 5 6.000NA 1.000UA
472 6 5.000NA 1.000UA
476 8 4.000NA 1.000UA
480 9 4.000NA 1.000UA
484 12 3.000NA 1.000UA
488 13 3.000NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 -38.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 -26.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 1.000NA 15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -15.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   3.000NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -4.000NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   6.000NA                150.0UA

```

```

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

```

STAT1 08/20/11 09:52
 TEST PROGRAM 4081B S/N 9
 DDS-101-04-A PN CD4081B TEST SEQ12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-600.1MV	-1.500 V	-100.0MV
62	8	-600.1MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-600.1MV	-1.500 V	-100.0MV
62	13	-600.1MV	-1.500 V	-100.0MV
62	14	-480.0MV	-1.500 V	-100.0MV
72	3	480.0MV	100.0MV	1.500 V
72	4	480.0MV	100.0MV	1.500 V
72	10	480.0MV	100.0MV	1.500 V
72	11	480.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VDD= 5
 VIH= 3.500 VIL= 1.500

 VOH TEST
 VDD= 5
 VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

 VOL TEST
 VDD= 5
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

 IOH TEST
 VDD= 5
 IOH LIMIT -360.0E-06
 VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-840.0UA		-360.0UA
265	4	-840.0UA		-360.0UA
271	10	-830.0UA		-360.0UA
277	11	-830.0UA		-360.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -1.150E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.100MA		-1.150MA
307	4	-4.100MA		-1.150MA
313	10	-4.100MA		-1.150MA
319	11	-4.100MA		-1.150MA

IOL TEST
VDD= 5
IOL LIMIT 360.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.500MA	360.0UA	
349	4	1.510MA	360.0UA	
355	10	1.490MA	360.0UA	
361	11	1.490MA	360.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.980 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -900.0E-06
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.750MA		-900.0UA
265	4	-1.750MA		-900.0UA
271	10	-1.730MA		-900.0UA
277	11	-1.730MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    3.190MA      900.0UA
349    4    3.200MA      900.0UA
355   10    3.150MA      900.0UA
361   11    3.130MA      900.0UA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
194    3    14.98 V      14.95 V
198    4    14.98 V      14.95 V
202   10    14.98 V      14.95 V
206   11    14.98 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
223    3    20.02MV      50.00MV
227    4    20.02MV      50.00MV
231   10    20.02MV      50.00MV
235   11    30.03MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
259    3    -6.600MA     -2.400MA
265    4    -6.600MA     -2.400MA
271   10    -6.500MA     -2.400MA
277   11    -6.600MA     -2.400MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    11.70MA      2.400MA
349    4    11.90MA      2.400MA
355   10    11.60MA      2.400MA
361   11    11.60MA      2.400MA
-----

```

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -10.00NA -1.000UA
414 2 -10.00NA -1.000UA
418 5 -11.00NA -1.000UA
422 6 -10.00NA -1.000UA
426 8 -9.000NA -1.000UA
430 9 -9.000NA -1.000UA
434 12 -8.000NA -1.000UA
438 13 -8.000NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 8.000NA 1.000UA
464 2 6.000NA 1.000UA
468 5 6.000NA 1.000UA
472 6 5.000NA 1.000UA
476 8 4.000NA 1.000UA
480 9 4.000NA 1.000UA
484 12 3.000NA 1.000UA
488 13 3.000NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 -38.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 -25.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 2.000NA 15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -14.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   5.000NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -2.000NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   8.000NA                150.0UA

```

```

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

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 10

DDS-101-04-A PN CD4081B TEST SEQ12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-480.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-850.0UA		-360.0UA
265	4	-850.0UA		-360.0UA
271	10	-830.0UA		-360.0UA
277	11	-840.0UA		-360.0UA


```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.100MA		-1.150MA
307	4	-4.100MA		-1.150MA
313	10	-4.000MA		-1.150MA
319	11	-4.100MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.510MA	360.0UA	
349	4	1.510MA	360.0UA	
355	10	1.500MA	360.0UA	
361	11	1.500MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	30.03MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.740MA		-900.0UA
265	4	-1.730MA		-900.0UA
271	10	-1.700MA		-900.0UA
277	11	-1.720MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.160MA	900.0UA	
349	4	3.160MA	900.0UA	
355	10	3.110MA	900.0UA	
361	11	3.110MA	900.0UA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	30.03MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-6.600MA		-2.400MA
265	4	-6.500MA		-2.400MA
271	10	-6.400MA		-2.400MA
277	11	-6.500MA		-2.400MA

IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	11.50MA	2.400MA	
349	4	11.50MA	2.400MA	
355	10	11.30MA	2.400MA	
361	11	11.30MA	2.400MA	

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT      GT
410     1   -10.00NA   -1.000UA
414     2   -10.00NA   -1.000UA
418     5   -11.00NA   -1.000UA
422     6   -10.00NA   -1.000UA
426     8    -9.000NA   -1.000UA
430     9    -9.000NA   -1.000UA
434    12    -8.000NA   -1.000UA
438    13    -9.000NA   -1.000UA
  
```

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

```

-----
INST #  PIN  MEASURED      LT      GT
460     1    9.000NA    1.000UA
464     2    6.000NA    1.000UA
468     5    6.000NA    1.000UA
472     6    5.000NA    1.000UA
476     8    4.000NA    1.000UA
480     9    4.000NA    1.000UA
484    12    3.000NA    1.000UA
488    13    4.000NA    1.000UA
  
```

IDD TEST
 VDD = 5
 IDD LIMIT 7.500E-06
 VIN = 5

```

-----
INST #  PIN  MEASURED      LT      GT
533    14   -37.00NA    7.500UA
  
```

IDD TEST
 VDD= 5
 IDD LIMIT 7.500E-06
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT      GT
549    14   -4.000NA    7.500UA
  
```

IDD TEST
 VDD = 10
 IDD LIMIT 15.00E-06
 VIN = 10

```

-----
INST #  PIN  MEASURED      LT      GT
533    14   -24.00NA    15.00UA
  
```

IDD TEST
 VDD= 10
 IDD LIMIT 15.00E-06
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT      GT
549    14    3.000NA    15.00UA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -13.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   6.000NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   1.000NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  10.00NA                150.0UA

```

```

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

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 11

DDS-101-04-A PN CD4081B TEST SEQ12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-600.1MV	-1.500 V	-100.0MV
62	2	-600.1MV	-1.500 V	-100.0MV
62	5	-600.1MV	-1.500 V	-100.0MV
62	6	-600.1MV	-1.500 V	-100.0MV
62	8	-600.1MV	-1.500 V	-100.0MV
62	9	-600.1MV	-1.500 V	-100.0MV
62	12	-600.1MV	-1.500 V	-100.0MV
62	13	-600.1MV	-1.500 V	-100.0MV
62	14	-480.0MV	-1.500 V	-100.0MV
72	3	480.0MV	100.0MV	1.500 V
72	4	480.0MV	100.0MV	1.500 V
72	10	480.0MV	100.0MV	1.500 V
72	11	480.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-820.0UA		-360.0UA
265	4	-810.0UA		-360.0UA
271	10	-810.0UA		-360.0UA
277	11	-810.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.000MA		-1.150MA
307	4	-3.900MA		-1.150MA
313	10	-3.900MA		-1.150MA
319	11	-4.000MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT 360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.460MA	360.0UA	
349	4	1.470MA	360.0UA	
355	10	1.450MA	360.0UA	
361	11	1.440MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT 9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.980 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.670MA		-900.0UA
265	4	-1.660MA		-900.0UA
271	10	-1.660MA		-900.0UA
277	11	-1.660MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

```
-----
INST # PIN MEASURED LT GT
343 3 3.060MA 900.0UA
349 4 3.050MA 900.0UA
355 10 3.000MA 900.0UA
361 11 2.990MA 900.0UA
-----
```

```
-----
FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4
-----
```

```
-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----
```

```
-----
INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V
-----
```

```
-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----
```

```
-----
INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 30.03MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV
-----
```

```
-----
IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50
-----
```

```
-----
INST # PIN MEASURED LT GT
259 3 -6.300MA -2.400MA
265 4 -6.300MA -2.400MA
271 10 -6.200MA -2.400MA
277 11 -6.300MA -2.400MA
-----
```

```
-----
IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500
-----
```

```
-----
INST # PIN MEASURED LT GT
343 3 11.10MA 2.400MA
349 4 11.10MA 2.400MA
355 10 10.90MA 2.400MA
361 11 10.90MA 2.400MA
-----
```

```
-----
IIL TEST
-----
```

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -10.00NA -1.000UA
414 2 -10.00NA -1.000UA
418 5 -11.00NA -1.000UA
422 6 -10.00NA -1.000UA
426 8 -9.000NA -1.000UA
430 9 -9.000NA -1.000UA
434 12 -8.000NA -1.000UA
438 13 -9.000NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 9.000NA 1.000UA
464 2 6.000NA 1.000UA
468 5 7.000NA 1.000UA
472 6 5.000NA 1.000UA
476 8 4.000NA 1.000UA
480 9 4.000NA 1.000UA
484 12 3.000NA 1.000UA
488 13 3.000NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 -36.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 -3.000NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 -23.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 4.000NA 15.00UA


```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -12.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   8.000NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   2.000NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  11.00NA                150.0UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS      PASS      EOT

```

STAT1 08/20/11 09:52
TEST PROGRAM 4081B S/N 12

DDS-101-04-A PN CD4081B TEST SEQ12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-480.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-840.0UA		-360.0UA
265	4	-840.0UA		-360.0UA
271	10	-830.0UA		-360.0UA
277	11	-830.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.100MA		-1.150MA
307	4	-4.100MA		-1.150MA
313	10	-4.000MA		-1.150MA
319	11	-4.000MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT 360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.500MA	360.0UA	
349	4	1.490MA	360.0UA	
355	10	1.480MA	360.0UA	
361	11	1.480MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT 9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.980 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.730MA		-900.0UA
265	4	-1.710MA		-900.0UA
271	10	-1.700MA		-900.0UA
277	11	-1.710MA		-900.0UA

IOL TEST
 VDD= 10
 IOL LIMIT 900.0E-06
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.130MA	900.0UA	
349	4	3.100MA	900.0UA	
355	10	3.100MA	900.0UA	
361	11	3.080MA	900.0UA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -2.400E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-6.500MA		-2.400MA
265	4	-6.400MA		-2.400MA
271	10	-6.400MA		-2.400MA
277	11	-6.400MA		-2.400MA

IOL TEST
 VDD= 15
 IOL LIMIT 2.400E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	11.50MA	2.400MA	
349	4	11.30MA	2.400MA	
355	10	11.30MA	2.400MA	
361	11	11.20MA	2.400MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -10.00NA -1.000UA
414 2 -10.00NA -1.000UA
418 5 -11.00NA -1.000UA
422 6 -10.00NA -1.000UA
426 8 -9.000NA -1.000UA
430 9 -9.000NA -1.000UA
434 12 -8.000NA -1.000UA
438 13 -9.000NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 8.000NA 1.000UA
464 2 6.000NA 1.000UA
468 5 6.000NA 1.000UA
472 6 5.000NA 1.000UA
476 8 4.000NA 1.000UA
480 9 4.000NA 1.000UA
484 12 3.000NA 1.000UA
488 13 3.000NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 -37.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 -3.000NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 -24.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 3.000NA 15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT   30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -12.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT   30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   7.000NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT   150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   1.000NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT   150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  10.00NA                150.0UA

```

```

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

```



MIL-PRF-38534 CLASS K DATAPACK

Post Burn-In Test Results at -55°C



STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 1

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-720.0MV	-1.500 V	-100.0MV
62	2	-720.0MV	-1.500 V	-100.0MV
62	5	-720.0MV	-1.500 V	-100.0MV
62	6	-720.0MV	-1.500 V	-100.0MV
62	8	-720.0MV	-1.500 V	-100.0MV
62	9	-720.0MV	-1.500 V	-100.0MV
62	12	-720.0MV	-1.500 V	-100.0MV
62	13	-720.0MV	-1.500 V	-100.0MV
62	14	-639.9MV	-1.500 V	-100.0MV
72	3	600.1MV	100.0MV	1.500 V
72	4	600.1MV	100.0MV	1.500 V
72	10	600.1MV	100.0MV	1.500 V
72	11	600.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.080MA		-640.0UA
265	4	-1.080MA		-640.0UA
271	10	-1.070MA		-640.0UA
277	11	-1.070MA		-640.0UA

IOH2 TEST

VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST # PIN MEASURED LT GT
301 3 -5.300MA -2.000MA
307 4 -5.400MA -2.000MA
313 10 -5.300MA -2.000MA
319 11 -5.200MA -2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST # PIN MEASURED LT GT
343 3 1.970MA 640.0UA
349 4 1.970MA 640.0UA
355 10 1.940MA 640.0UA
361 11 1.960MA 640.0UA

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST # PIN MEASURED LT GT
194 3 9.970 V 9.950 V
198 4 9.970 V 9.950 V
202 10 9.970 V 9.950 V
206 11 9.980 V 9.950 V

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST # PIN MEASURED LT GT
259 3 -2.250MA -1.600MA
265 4 -2.240MA -1.600MA
271 10 -2.210MA -1.600MA
277 11 -2.230MA -1.600MA

IOL TEST
VDD= 10

IOL LIMIT 1.600E-03
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	4.140MA	1.600MA	
349	4	4.140MA	1.600MA	
355	10	4.010MA	1.600MA	
361	11	4.090MA	1.600MA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.97 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	10.01MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-8.500MA		-4.200MA
265	4	-8.400MA		-4.200MA
271	10	-8.300MA		-4.200MA
277	11	-8.400MA		-4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	15.10MA	4.200MA	
349	4	15.10MA	4.200MA	
355	10	14.50MA	4.200MA	
361	11	14.90MA	4.200MA	

IIL TEST
VDD= 18
IIL LIMIT -0.1UA @25C & -55C

IIL LIMIT -1.0UA @ +125C

```
-----  
INST #  PIN  MEASURED      LT          GT  
410     1   -15.00NA    -100.0NA  
414     2   -10.00NA    -100.0NA  
418     5   -37.00NA    -100.0NA  
422     6   -37.00NA    -100.0NA  
426     8   -18.00NA    -100.0NA  
430     9   -34.00NA    -100.0NA  
434    12   -13.00NA    -100.0NA  
438    13   -13.00NA    -100.0NA  
-----
```

```
-----  
      IIH TEST  
      VDD =      18  
      IIH LIMIT 0.1UA @ 25C & -55C  
      IIH LIMIT 1.0UA @ 125C  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
460     1   15.00NA     100.0NA  
464     2   7.000NA     100.0NA  
468     5   36.00NA     100.0NA  
472     6   35.00NA     100.0NA  
476     8   17.00NA     100.0NA  
480     9   39.00NA     100.0NA  
484    12   9.000NA     100.0NA  
488    13   8.000NA     100.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD =      5  
      IDD LIMIT 250.0E-09  
      VIN =      5  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14  -33.00NA     250.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD=      5  
      IDD LIMIT 250.0E-09  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14  -5.000NA     250.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD =     10  
      IDD LIMIT 500.0E-09  
      VIN =     10  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14  -21.00NA     500.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD=     10  
      IDD LIMIT 500.0E-09  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14     0 A      500.0NA  
-----
```

IDD TEST
VDD = 15
IDD LIMIT 1.000E-06
VIN = 15

INST # PIN MEASURED LT GT
533 14 -11.00NA 1.000UA

IDD TEST
VDD= 15
IDD LIMIT 1.000E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 2.000NA 1.000UA

IDD TEST
VDD = 20
IDD LIMIT 5.000E-06
VIN = 20

INST # PIN MEASURED LT GT
533 14 2.000NA 5.000UA

IDD TEST
VDD= 20
IDD LIMIT 5.000E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 5.000NA 5.000UA

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

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 2

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-760.0MV	-1.500 V	-100.0MV
62	2	-760.0MV	-1.500 V	-100.0MV
62	5	-760.0MV	-1.500 V	-100.0MV
62	6	-760.0MV	-1.500 V	-100.0MV
62	8	-760.0MV	-1.500 V	-100.0MV
62	9	-760.0MV	-1.500 V	-100.0MV
62	12	-760.0MV	-1.500 V	-100.0MV
62	13	-760.0MV	-1.500 V	-100.0MV
62	14	-679.9MV	-1.500 V	-100.0MV
72	3	639.9MV	100.0MV	1.500 V
72	4	639.9MV	100.0MV	1.500 V
72	10	639.9MV	100.0MV	1.500 V
72	11	639.9MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.190MA		-640.0UA
265	4	-1.190MA		-640.0UA
271	10	-1.190MA		-640.0UA
277	11	-1.200MA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-5.900MA		-2.000MA
307	4	-5.800MA		-2.000MA
313	10	-5.800MA		-2.000MA
319	11	-5.900MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	2.210MA	640.0UA	
349	4	2.220MA	640.0UA	
355	10	2.190MA	640.0UA	
361	11	2.210MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.980 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-2.490MA		-1.600MA
265	4	-2.480MA		-1.600MA
271	10	-2.480MA		-1.600MA
277	11	-2.520MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	4.720MA	1.600MA	
349	4	4.760MA	1.600MA	
355	10	4.650MA	1.600MA	
361	11	4.700MA	1.600MA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.99 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -4.200E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-9.400MA		-4.200MA
265	4	-9.300MA		-4.200MA
271	10	-9.300MA		-4.200MA
277	11	-9.500MA		-4.200MA

IOL TEST
 VDD= 15
 IOL LIMIT 4.200E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	17.30MA	4.200MA	
349	4	17.50MA	4.200MA	
355	10	17.10MA	4.200MA	
361	11	17.30MA	4.200MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -23.00NA -100.0NA
414 2 -11.00NA -100.0NA
418 5 -58.00NA -100.0NA
422 6 -51.00NA -100.0NA
426 8 -29.00NA -100.0NA
430 9 -53.00NA -100.0NA
434 12 -25.00NA -100.0NA
438 13 -45.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 24.00NA 100.0NA
464 2 7.000NA 100.0NA
468 5 57.00NA 100.0NA
472 6 49.00NA 100.0NA
476 8 30.00NA 100.0NA
480 9 67.00NA 100.0NA
484 12 35.00NA 100.0NA
488 13 26.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -32.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 3.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -21.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 14.00NA 500.0NA


```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -9.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   26.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   4.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  42.00NA                5.000UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS      PASS      EOT

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 3

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-760.0MV	-1.500 V	-100.0MV
62	2	-760.0MV	-1.500 V	-100.0MV
62	5	-760.0MV	-1.500 V	-100.0MV
62	6	-760.0MV	-1.500 V	-100.0MV
62	8	-760.0MV	-1.500 V	-100.0MV
62	9	-760.0MV	-1.500 V	-100.0MV
62	12	-760.0MV	-1.500 V	-100.0MV
62	13	-760.0MV	-1.500 V	-100.0MV
62	14	-639.9MV	-1.500 V	-100.0MV
72	3	639.9MV	100.0MV	1.500 V
72	4	639.9MV	100.0MV	1.500 V
72	10	639.9MV	100.0MV	1.500 V
72	11	639.9MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.160MA		-640.0UA
265	4	-1.160MA		-640.0UA
271	10	-1.130MA		-640.0UA
277	11	-1.140MA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-5.700MA		-2.000MA
307	4	-5.700MA		-2.000MA
313	10	-5.600MA		-2.000MA
319	11	-5.600MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	2.150MA	640.0UA	
349	4	2.160MA	640.0UA	
355	10	2.130MA	640.0UA	
361	11	2.150MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-2.450MA		-1.600MA
265	4	-2.460MA		-1.600MA
271	10	-2.390MA		-1.600MA
277	11	-2.410MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	4.630MA	1.600MA	
349	4	4.650MA	1.600MA	
355	10	4.540MA	1.600MA	
361	11	4.590MA	1.600MA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-9.300MA		-4.200MA
265	4	-9.300MA		-4.200MA
271	10	-9.100MA		-4.200MA
277	11	-9.100MA		-4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	17.20MA	4.200MA	
349	4	17.20MA	4.200MA	
355	10	16.80MA	4.200MA	
361	11	17.00MA	4.200MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -20.00NA -100.0NA
414 2 -10.00NA -100.0NA
418 5 -44.00NA -100.0NA
422 6 -40.00NA -100.0NA
426 8 -25.00NA -100.0NA
430 9 -46.00NA -100.0NA
434 12 -16.00NA -100.0NA
438 13 -18.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 21.00NA 100.0NA
464 2 7.000NA 100.0NA
468 5 41.00NA 100.0NA
472 6 37.00NA 100.0NA
476 8 26.00NA 100.0NA
480 9 56.00NA 100.0NA
484 12 14.00NA 100.0NA
488 13 13.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -32.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -4.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -21.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 1.000NA 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -10.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   4.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   7.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 4

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-760.0MV	-1.500 V	-100.0MV
62	2	-760.0MV	-1.500 V	-100.0MV
62	5	-760.0MV	-1.500 V	-100.0MV
62	6	-760.0MV	-1.500 V	-100.0MV
62	8	-760.0MV	-1.500 V	-100.0MV
62	9	-760.0MV	-1.500 V	-100.0MV
62	12	-760.0MV	-1.500 V	-100.0MV
62	13	-760.0MV	-1.500 V	-100.0MV
62	14	-639.9MV	-1.500 V	-100.0MV
72	3	639.9MV	100.0MV	1.500 V
72	4	639.9MV	100.0MV	1.500 V
72	10	639.9MV	100.0MV	1.500 V
72	11	639.9MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	10.01MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.190MA		-640.0UA
265	4	-1.180MA		-640.0UA
271	10	-1.170MA		-640.0UA
277	11	-1.170MA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-5.800MA		-2.000MA
307	4	-5.800MA		-2.000MA
313	10	-5.800MA		-2.000MA
319	11	-5.800MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	2.190MA	640.0UA	
349	4	2.190MA	640.0UA	
355	10	2.190MA	640.0UA	
361	11	2.190MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-2.490MA		-1.600MA
265	4	-2.460MA		-1.600MA
271	10	-2.430MA		-1.600MA
277	11	-2.450MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 4.680MA 1.600MA
349 4 4.650MA 1.600MA
355 10 4.640MA 1.600MA
361 11 4.630MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -9.300MA -4.200MA
265 4 -9.200MA -4.200MA
271 10 -9.100MA -4.200MA
277 11 -9.200MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 17.20MA 4.200MA
349 4 17.00MA 4.200MA
355 10 17.00MA 4.200MA
361 11 16.90MA 4.200MA

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -22.00NA -100.0NA
414 2 -11.00NA -100.0NA
418 5 -55.00NA -100.0NA
422 6 -49.00NA -100.0NA
426 8 -32.00NA -100.0NA
430 9 -53.00NA -100.0NA
434 12 -16.00NA -100.0NA
438 13 -18.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 24.00NA 100.0NA
464 2 7.000NA 100.0NA
468 5 54.00NA 100.0NA
472 6 48.00NA 100.0NA
476 8 33.00NA 100.0NA
480 9 64.00NA 100.0NA
484 12 23.00NA 100.0NA
488 13 14.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -32.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -20.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -8.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   3.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   6.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 5

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-720.0MV	-1.500 V	-100.0MV
62	2	-720.0MV	-1.500 V	-100.0MV
62	5	-720.0MV	-1.500 V	-100.0MV
62	6	-720.0MV	-1.500 V	-100.0MV
62	8	-760.0MV	-1.500 V	-100.0MV
62	9	-760.0MV	-1.500 V	-100.0MV
62	12	-720.0MV	-1.500 V	-100.0MV
62	13	-720.0MV	-1.500 V	-100.0MV
62	14	-639.9MV	-1.500 V	-100.0MV
72	3	600.1MV	100.0MV	1.500 V
72	4	600.1MV	100.0MV	1.500 V
72	10	600.1MV	100.0MV	1.500 V
72	11	600.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.110MA		-640.0UA
265	4	-1.110MA		-640.0UA
271	10	-1.090MA		-640.0UA
277	11	-1.100MA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-5.400MA		-2.000MA
307	4	-5.400MA		-2.000MA
313	10	-5.300MA		-2.000MA
319	11	-5.400MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	2.000MA	640.0UA	
349	4	1.970MA	640.0UA	
355	10	1.980MA	640.0UA	
361	11	2.000MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-2.320MA		-1.600MA
265	4	-2.310MA		-1.600MA
271	10	-2.240MA		-1.600MA
277	11	-2.300MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 4.280MA 1.600MA
349 4 4.230MA 1.600MA
355 10 4.170MA 1.600MA
361 11 4.280MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 10.01MV 50.00MV
231 10 10.01MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -8.700MA -4.200MA
265 4 -8.700MA -4.200MA
271 10 -8.400MA -4.200MA
277 11 -8.700MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 15.80MA 4.200MA
349 4 15.50MA 4.200MA
355 10 15.30MA 4.200MA
361 11 15.80MA 4.200MA

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -17.00NA -100.0NA
414 2 -11.00NA -100.0NA
418 5 -37.00NA -100.0NA
422 6 -38.00NA -100.0NA
426 8 -27.00NA -100.0NA
430 9 -49.00NA -100.0NA
434 12 -21.00NA -100.0NA
438 13 -14.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 17.00NA 100.0NA
464 2 8.000NA 100.0NA
468 5 33.00NA 100.0NA
472 6 34.00NA 100.0NA
476 8 25.00NA 100.0NA
480 9 54.00NA 100.0NA
484 12 18.00NA 100.0NA
488 13 9.000NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -34.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -22.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -9.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   4.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS      PASS      EOT

```


STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 6

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-760.0MV	-1.500 V	-100.0MV
62	2	-760.0MV	-1.500 V	-100.0MV
62	5	-760.0MV	-1.500 V	-100.0MV
62	6	-760.0MV	-1.500 V	-100.0MV
62	8	-760.0MV	-1.500 V	-100.0MV
62	9	-760.0MV	-1.500 V	-100.0MV
62	12	-760.0MV	-1.500 V	-100.0MV
62	13	-760.0MV	-1.500 V	-100.0MV
62	14	-639.9MV	-1.500 V	-100.0MV
72	3	639.9MV	100.0MV	1.500 V
72	4	639.9MV	100.0MV	1.500 V
72	10	639.9MV	100.0MV	1.500 V
72	11	639.9MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.180MA		-640.0UA
265	4	-1.180MA		-640.0UA
271	10	-1.180MA		-640.0UA
277	11	-1.190MA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-5.700MA		-2.000MA
307	4	-5.700MA		-2.000MA
313	10	-5.800MA		-2.000MA
319	11	-5.800MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	2.200MA	640.0UA	
349	4	2.220MA	640.0UA	
355	10	2.210MA	640.0UA	
361	11	2.240MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-2.480MA		-1.600MA
265	4	-2.480MA		-1.600MA
271	10	-2.470MA		-1.600MA
277	11	-2.510MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    4.720MA      1.600MA
349    4    4.750MA      1.600MA
355   10    4.700MA      1.600MA
361   11    4.780MA      1.600MA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
194    3    14.98 V      14.95 V
198    4    14.98 V      14.95 V
202   10    14.98 V      14.95 V
206   11    14.98 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
223    3    20.02MV      50.00MV
227    4    20.02MV      50.00MV
231   10    10.01MV      50.00MV
235   11    10.01MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
259    3    -9.400MA     -4.200MA
265    4    -9.300MA     -4.200MA
271   10    -9.300MA     -4.200MA
277   11    -9.500MA     -4.200MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    17.40MA      4.200MA
349    4    17.60MA      4.200MA
355   10    17.30MA      4.200MA
361   11    17.60MA      4.200MA
-----

```

```

-----
IIL TEST
-----

```

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -22.00NA -100.0NA
414 2 -11.00NA -100.0NA
418 5 -61.00NA -100.0NA
422 6 -52.00NA -100.0NA
426 8 -33.00NA -100.0NA
430 9 -46.00NA -100.0NA
434 12 -19.00NA -100.0NA
438 13 -16.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 23.00NA 100.0NA
464 2 8.000NA 100.0NA
468 5 59.00NA 100.0NA
472 6 50.00NA 100.0NA
476 8 33.00NA 100.0NA
480 9 51.00NA 100.0NA
484 12 16.00NA 100.0NA
488 13 12.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -34.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -21.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -8.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 7

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-760.0MV	-1.500 V	-100.0MV
62	2	-760.0MV	-1.500 V	-100.0MV
62	5	-760.0MV	-1.500 V	-100.0MV
62	6	-760.0MV	-1.500 V	-100.0MV
62	8	-760.0MV	-1.500 V	-100.0MV
62	9	-800.0MV	-1.500 V	-100.0MV
62	12	-800.0MV	-1.500 V	-100.0MV
62	13	-800.0MV	-1.500 V	-100.0MV
62	14	-679.9MV	-1.500 V	-100.0MV
72	3	679.9MV	100.0MV	1.500 V
72	4	639.9MV	100.0MV	1.500 V
72	10	679.9MV	100.0MV	1.500 V
72	11	679.9MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	10.01MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.220MA		-640.0UA
265	4	-1.220MA		-640.0UA
271	10	-1.210MA		-640.0UA
277	11	-1.210MA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-6.000MA		-2.000MA
307	4	-6.000MA		-2.000MA
313	10	-5.900MA		-2.000MA
319	11	-5.900MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	2.230MA	640.0UA	
349	4	2.240MA	640.0UA	
355	10	2.230MA	640.0UA	
361	11	2.210MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-2.530MA		-1.600MA
265	4	-2.540MA		-1.600MA
271	10	-2.510MA		-1.600MA
277	11	-2.510MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    4.760MA      1.600MA
349    4    4.780MA      1.600MA
355   10    4.720MA      1.600MA
361   11    4.690MA      1.600MA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
194    3    14.98 V      14.95 V
198    4    14.98 V      14.95 V
202   10    14.98 V      14.95 V
206   11    14.98 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
223    3    10.01MV      50.00MV
227    4    20.02MV      50.00MV
231   10    20.02MV      50.00MV
235   11    10.01MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
259    3    -9.600MA     -4.200MA
265    4    -9.600MA     -4.200MA
271   10    -9.400MA     -4.200MA
277   11    -9.500MA     -4.200MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    17.40MA      4.200MA
349    4    17.50MA      4.200MA
355   10    17.40MA      4.200MA
361   11    17.20MA      4.200MA
-----

```

```

-----
IIL TEST
-----

```


VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -17.00NA -100.0NA
414 2 -11.00NA -100.0NA
418 5 -46.00NA -100.0NA
422 6 -47.00NA -100.0NA
426 8 -31.00NA -100.0NA
430 9 -51.00NA -100.0NA
434 12 -17.00NA -100.0NA
438 13 -17.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 18.00NA 100.0NA
464 2 8.000NA 100.0NA
468 5 44.00NA 100.0NA
472 6 44.00NA 100.0NA
476 8 30.00NA 100.0NA
480 9 71.00NA 100.0NA
484 12 26.00NA 100.0NA
488 13 12.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -36.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -22.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -11.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   4.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   5.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 8

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-760.0MV	-1.500 V	-100.0MV
62	2	-760.0MV	-1.500 V	-100.0MV
62	5	-760.0MV	-1.500 V	-100.0MV
62	6	-760.0MV	-1.500 V	-100.0MV
62	8	-760.0MV	-1.500 V	-100.0MV
62	9	-760.0MV	-1.500 V	-100.0MV
62	12	-760.0MV	-1.500 V	-100.0MV
62	13	-760.0MV	-1.500 V	-100.0MV
62	14	-639.9MV	-1.500 V	-100.0MV
72	3	639.9MV	100.0MV	1.500 V
72	4	639.9MV	100.0MV	1.500 V
72	10	639.9MV	100.0MV	1.500 V
72	11	639.9MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.140MA		-640.0UA
265	4	-1.140MA		-640.0UA
271	10	-1.150MA		-640.0UA
277	11	-1.140MA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-5.600MA		-2.000MA
307	4	-5.600MA		-2.000MA
313	10	-5.700MA		-2.000MA
319	11	-5.600MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	2.150MA	640.0UA	
349	4	2.160MA	640.0UA	
355	10	2.110MA	640.0UA	
361	11	2.110MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	10.01MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-2.400MA		-1.600MA
265	4	-2.400MA		-1.600MA
271	10	-2.400MA		-1.600MA
277	11	-2.400MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 4.640MA 1.600MA
349 4 4.620MA 1.600MA
355 10 4.500MA 1.600MA
361 11 4.510MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 10.01MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -9.100MA -4.200MA
265 4 -9.100MA -4.200MA
271 10 -9.100MA -4.200MA
277 11 -9.100MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 17.10MA 4.200MA
349 4 17.10MA 4.200MA
355 10 16.50MA 4.200MA
361 11 16.60MA 4.200MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -22.00NA    -100.0NA
414     2   -11.00NA    -100.0NA
418     5   -80.00NA    -100.0NA
422     6   -77.00NA    -100.0NA
426     8   -50.00NA    -100.0NA
430     9   -63.00NA    -100.0NA
434    12   -20.00NA    -100.0NA
438    13   -15.00NA    -100.0NA
  
```

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

```

-----
INST #  PIN  MEASURED      LT          GT
460     1   23.00NA     100.0NA
464     2    8.000NA    100.0NA
468     5   82.00NA     100.0NA
472     6   77.00NA     100.0NA
476     8   53.00NA     100.0NA
480     9   70.00NA     100.0NA
484    12   20.00NA     100.0NA
488    13   11.00NA     100.0NA
  
```

IDD TEST
 VDD = 5
 IDD LIMIT 250.0E-09
 VIN = 5

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -32.00NA     250.0NA
  
```

IDD TEST
 VDD= 5
 IDD LIMIT 250.0E-09
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14  -5.000NA     250.0NA
  
```

IDD TEST
 VDD = 10
 IDD LIMIT 500.0E-09
 VIN = 10

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -18.00NA     500.0NA
  
```

IDD TEST
 VDD= 10
 IDD LIMIT 500.0E-09
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14    0 A         500.0NA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -3.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14  14.00NA                 5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   5.000NA                 5.000UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS      PASS      EOT

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 9

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-800.0MV	-1.500 V	-100.0MV
62	2	-800.0MV	-1.500 V	-100.0MV
62	5	-800.0MV	-1.500 V	-100.0MV
62	6	-800.0MV	-1.500 V	-100.0MV
62	8	-800.0MV	-1.500 V	-100.0MV
62	9	-800.0MV	-1.500 V	-100.0MV
62	12	-800.0MV	-1.500 V	-100.0MV
62	13	-800.0MV	-1.500 V	-100.0MV
62	14	-679.9MV	-1.500 V	-100.0MV
72	3	679.9MV	100.0MV	1.500 V
72	4	679.9MV	100.0MV	1.500 V
72	10	679.9MV	100.0MV	1.500 V
72	11	679.9MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.280MA		-640.0UA
265	4	-1.290MA		-640.0UA
271	10	-1.280MA		-640.0UA
277	11	-1.270MA		-640.0UA


```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-6.200MA		-2.000MA
307	4	-6.300MA		-2.000MA
313	10	-6.200MA		-2.000MA
319	11	-6.200MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	2.240MA	640.0UA	
349	4	2.270MA	640.0UA	
355	10	2.250MA	640.0UA	
361	11	2.240MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.980 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-2.620MA		-1.600MA
265	4	-2.630MA		-1.600MA
271	10	-2.600MA		-1.600MA
277	11	-2.600MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	4.750MA	1.600MA	
349	4	4.840MA	1.600MA	
355	10	4.750MA	1.600MA	
361	11	4.770MA	1.600MA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	10.01MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -4.200E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-9.800MA		-4.200MA
265	4	-9.800MA		-4.200MA
271	10	-9.600MA		-4.200MA
277	11	-9.700MA		-4.200MA

IOL TEST
 VDD= 15
 IOL LIMIT 4.200E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	17.30MA	4.200MA	
349	4	17.80MA	4.200MA	
355	10	17.40MA	4.200MA	
361	11	17.40MA	4.200MA	

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -16.00NA    -100.0NA
414     2   -11.00NA    -100.0NA
418     5   -47.00NA    -100.0NA
422     6   -50.00NA    -100.0NA
426     8   -39.00NA    -100.0NA
430     9   -44.00NA    -100.0NA
434    12   -26.00NA    -100.0NA
438    13   -29.00NA    -100.0NA
  
```

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

```

-----
INST #  PIN  MEASURED      LT          GT
460     1   16.00NA     100.0NA
464     2    8.000NA    100.0NA
468     5   45.00NA     100.0NA
472     6   49.00NA     100.0NA
476     8   40.00NA     100.0NA
480     9   74.00NA     100.0NA
484    12   48.00NA     100.0NA
488    13   20.00NA     100.0NA
  
```

IDD TEST
 VDD = 5
 IDD LIMIT 250.0E-09
 VIN = 5

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -35.00NA     250.0NA
  
```

IDD TEST
 VDD= 5
 IDD LIMIT 250.0E-09
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14  -3.000NA     250.0NA
  
```

IDD TEST
 VDD = 10
 IDD LIMIT 500.0E-09
 VIN = 10

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -22.00NA     500.0NA
  
```

IDD TEST
 VDD= 10
 IDD LIMIT 500.0E-09
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14    4.000NA     500.0NA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -9.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   9.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   6.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14  16.00NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 10

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-760.0MV	-1.500 V	-100.0MV
62	2	-760.0MV	-1.500 V	-100.0MV
62	5	-760.0MV	-1.500 V	-100.0MV
62	6	-760.0MV	-1.500 V	-100.0MV
62	8	-760.0MV	-1.500 V	-100.0MV
62	9	-760.0MV	-1.500 V	-100.0MV
62	12	-760.0MV	-1.500 V	-100.0MV
62	13	-760.0MV	-1.500 V	-100.0MV
62	14	-639.9MV	-1.500 V	-100.0MV
72	3	639.9MV	100.0MV	1.500 V
72	4	639.9MV	100.0MV	1.500 V
72	10	639.9MV	100.0MV	1.500 V
72	11	639.9MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.180MA		-640.0UA
265	4	-1.170MA		-640.0UA
271	10	-1.170MA		-640.0UA
277	11	-1.170MA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-5.800MA		-2.000MA
307	4	-5.800MA		-2.000MA
313	10	-5.700MA		-2.000MA
319	11	-5.800MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	2.190MA	640.0UA	
349	4	2.190MA	640.0UA	
355	10	2.160MA	640.0UA	
361	11	2.150MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.980 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-2.450MA		-1.600MA
265	4	-2.440MA		-1.600MA
271	10	-2.430MA		-1.600MA
277	11	-2.460MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 4.630MA 1.600MA
349 4 4.620MA 1.600MA
355 10 4.570MA 1.600MA
361 11 4.550MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 20.02MV 50.00MV
235 11 10.01MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -9.300MA -4.200MA
265 4 -9.200MA -4.200MA
271 10 -9.200MA -4.200MA
277 11 -9.300MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 17.00MA 4.200MA
349 4 16.90MA 4.200MA
355 10 16.80MA 4.200MA
361 11 16.60MA 4.200MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -18.00NA    -100.0NA
414     2   -11.00NA    -100.0NA
418     5   -57.00NA    -100.0NA
422     6   -59.00NA    -100.0NA
426     8   -36.00NA    -100.0NA
430     9   -52.00NA    -100.0NA
434    12   -20.00NA    -100.0NA
438    13   -13.00NA    -100.0NA
  
```

```

-----
      IIH TEST
      VDD =      18
      IIH LIMIT 0.1UA @ 25C & -55C
      IIH LIMIT 1.0UA @ 125C
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
460     1   19.00NA     100.0NA
464     2    8.000NA    100.0NA
468     5   54.00NA     100.0NA
472     6   58.00NA     100.0NA
476     8   35.00NA     100.0NA
480     9   55.00NA     100.0NA
484    12   22.00NA     100.0NA
488    13    9.000NA    100.0NA
  
```

```

-----
      IDD TEST
      VDD =      5
      IDD LIMIT 250.0E-09
      VIN =      5
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -34.00NA     250.0NA
  
```

```

-----
      IDD TEST
      VDD=      5
      IDD LIMIT 250.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14  -5.000NA     250.0NA
  
```

```

-----
      IDD TEST
      VDD =     10
      IDD LIMIT 500.0E-09
      VIN =     10
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -20.00NA     500.0NA
  
```

```

-----
      IDD TEST
      VDD=     10
      IDD LIMIT 500.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14      0 A      500.0NA
  
```



```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   9.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS      PASS      EOT

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 11

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-800.0MV	-1.500 V	-100.0MV
62	2	-800.0MV	-1.500 V	-100.0MV
62	5	-800.0MV	-1.500 V	-100.0MV
62	6	-800.0MV	-1.500 V	-100.0MV
62	8	-800.0MV	-1.500 V	-100.0MV
62	9	-800.0MV	-1.500 V	-100.0MV
62	12	-800.0MV	-1.500 V	-100.0MV
62	13	-800.0MV	-1.500 V	-100.0MV
62	14	-679.9MV	-1.500 V	-100.0MV
72	3	679.9MV	100.0MV	1.500 V
72	4	679.9MV	100.0MV	1.500 V
72	10	679.9MV	100.0MV	1.500 V
72	11	679.9MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.220MA		-640.0UA
265	4	-1.210MA		-640.0UA
271	10	-1.210MA		-640.0UA
277	11	-1.210MA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-5.900MA		-2.000MA
307	4	-5.900MA		-2.000MA
313	10	-5.900MA		-2.000MA
319	11	-5.900MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	2.270MA	640.0UA	
349	4	2.260MA	640.0UA	
355	10	2.250MA	640.0UA	
361	11	2.250MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-2.510MA		-1.600MA
265	4	-2.490MA		-1.600MA
271	10	-2.490MA		-1.600MA
277	11	-2.510MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	4.770MA	1.600MA	
349	4	4.760MA	1.600MA	
355	10	4.690MA	1.600MA	
361	11	4.710MA	1.600MA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.97 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	10.01MV		50.00MV
231	10	10.01MV		50.00MV
235	11	10.01MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -4.200E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-9.400MA		-4.200MA
265	4	-9.300MA		-4.200MA
271	10	-9.300MA		-4.200MA
277	11	-9.400MA		-4.200MA

IOL TEST
 VDD= 15
 IOL LIMIT 4.200E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	17.50MA	4.200MA	
349	4	17.40MA	4.200MA	
355	10	17.00MA	4.200MA	
361	11	17.20MA	4.200MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -16.00NA -100.0NA
414 2 -12.00NA -100.0NA
418 5 -46.00NA -100.0NA
422 6 -46.00NA -100.0NA
426 8 -31.00NA -100.0NA
430 9 -44.00NA -100.0NA
434 12 -40.00NA -100.0NA
438 13 -22.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 17.00NA 100.0NA
464 2 8.000NA 100.0NA
468 5 42.00NA 100.0NA
472 6 44.00NA 100.0NA
476 8 32.00NA 100.0NA
480 9 77.00NA 100.0NA
484 12 74.00NA 100.0NA
488 13 21.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -36.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -22.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -11.00NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   4.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   5.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 12

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-760.0MV	-1.500 V	-100.0MV
62	2	-760.0MV	-1.500 V	-100.0MV
62	5	-760.0MV	-1.500 V	-100.0MV
62	6	-760.0MV	-1.500 V	-100.0MV
62	8	-760.0MV	-1.500 V	-100.0MV
62	9	-760.0MV	-1.500 V	-100.0MV
62	12	-760.0MV	-1.500 V	-100.0MV
62	13	-760.0MV	-1.500 V	-100.0MV
62	14	-639.9MV	-1.500 V	-100.0MV
72	3	639.9MV	100.0MV	1.500 V
72	4	639.9MV	100.0MV	1.500 V
72	10	639.9MV	100.0MV	1.500 V
72	11	639.9MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-1.140MA		-640.0UA
265	4	-1.130MA		-640.0UA
271	10	-1.130MA		-640.0UA
277	11	-1.130MA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-5.600MA		-2.000MA
307	4	-5.600MA		-2.000MA
313	10	-5.500MA		-2.000MA
319	11	-5.500MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	2.110MA	640.0UA	
349	4	2.090MA	640.0UA	
355	10	2.100MA	640.0UA	
361	11	2.100MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-2.410MA		-1.600MA
265	4	-2.390MA		-1.600MA
271	10	-2.380MA		-1.600MA
277	11	-2.400MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 4.510MA 1.600MA
349 4 4.490MA 1.600MA
355 10 4.520MA 1.600MA
361 11 4.520MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -9.200MA -4.200MA
265 4 -9.100MA -4.200MA
271 10 -9.000MA -4.200MA
277 11 -9.100MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 16.70MA 4.200MA
349 4 16.60MA 4.200MA
355 10 16.80MA 4.200MA
361 11 16.80MA 4.200MA

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -18.00NA -100.0NA
414 2 -11.00NA -100.0NA
418 5 -57.00NA -100.0NA
422 6 -61.00NA -100.0NA
426 8 -35.00NA -100.0NA
430 9 -58.00NA -100.0NA
434 12 -28.00NA -100.0NA
438 13 -16.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 19.00NA 100.0NA
464 2 8.000NA 100.0NA
468 5 56.00NA 100.0NA
472 6 60.00NA 100.0NA
476 8 34.00NA 100.0NA
480 9 62.00NA 100.0NA
484 12 28.00NA 100.0NA
488 13 12.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -35.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -21.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -8.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   7.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```



MIL-PRF-38534 CLASS K DATAPACK

Post Burn-In Test Results at 25°C



STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 1

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-890.0UA		-640.0UA
265	4	-890.0UA		-640.0UA
271	10	-890.0UA		-640.0UA
277	11	-880.0UA		-640.0UA

IOH2 TEST

VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST # PIN MEASURED LT GT
301 3 -4.400MA -2.000MA
307 4 -4.400MA -2.000MA
313 10 -4.400MA -2.000MA
319 11 -4.300MA -2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST # PIN MEASURED LT GT
343 3 1.610MA 640.0UA
349 4 1.610MA 640.0UA
355 10 1.590MA 640.0UA
361 11 1.600MA 640.0UA

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST # PIN MEASURED LT GT
194 3 9.970 V 9.950 V
198 4 9.970 V 9.950 V
202 10 9.970 V 9.950 V
206 11 9.970 V 9.950 V

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 10.01MV 50.00MV
231 10 20.02MV 50.00MV
235 11 10.01MV 50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST # PIN MEASURED LT GT
259 3 -1.860MA -1.600MA
265 4 -1.860MA -1.600MA
271 10 -1.840MA -1.600MA
277 11 -1.850MA -1.600MA

IOL TEST
VDD= 10

IOL LIMIT 1.600E-03
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.410MA	1.600MA	
349	4	3.400MA	1.600MA	
355	10	3.330MA	1.600MA	
361	11	3.370MA	1.600MA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-7.100MA		-4.200MA
265	4	-7.100MA		-4.200MA
271	10	-7.000MA		-4.200MA
277	11	-7.000MA		-4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	12.50MA	4.200MA	
349	4	12.40MA	4.200MA	
355	10	12.10MA	4.200MA	
361	11	12.30MA	4.200MA	

IIL TEST
VDD= 18
IIL LIMIT -0.1UA @25C & -55C

IIL LIMIT -1.0UA @ +125C

```
-----  
INST #  PIN  MEASURED      LT          GT  
410     1   -26.00NA    -100.0NA  
414     2   -11.00NA    -100.0NA  
418     5   -74.00NA    -100.0NA  
422     6   -66.00NA    -100.0NA  
426     8   -36.00NA    -100.0NA  
430     9   -70.00NA    -100.0NA  
434    12   -55.00NA    -100.0NA  
438    13   -17.00NA    -100.0NA  
-----
```

```
-----  
      IIH TEST  
      VDD =      18  
      IIH LIMIT 0.1UA @ 25C & -55C  
      IIH LIMIT 1.0UA @ 125C  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
460     1   29.00NA     100.0NA  
464     2   8.000NA     100.0NA  
468     5   78.00NA     100.0NA  
472     6   68.00NA     100.0NA  
476     8   38.00NA     100.0NA  
480     9   82.00NA     100.0NA  
484    12   57.00NA     100.0NA  
488    13   12.00NA     100.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD =      5  
      IDD LIMIT 250.0E-09  
      VIN =      5  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14  -31.00NA     250.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD=      5  
      IDD LIMIT 250.0E-09  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14  -5.000NA     250.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD =     10  
      IDD LIMIT 500.0E-09  
      VIN =     10  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14  -17.00NA     500.0NA  
-----
```

```
-----  
      IDD TEST  
      VDD=     10  
      IDD LIMIT 500.0E-09  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14      0 A      500.0NA  
-----
```


IDD TEST
VDD = 15
IDD LIMIT 1.000E-06
VIN = 15

INST # PIN MEASURED LT GT
533 14 -5.000NA 1.000UA

IDD TEST
VDD= 15
IDD LIMIT 1.000E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 2.000NA 1.000UA

IDD TEST
VDD = 20
IDD LIMIT 5.000E-06
VIN = 20

INST # PIN MEASURED LT GT
533 14 10.00NA 5.000UA

IDD TEST
VDD= 20
IDD LIMIT 5.000E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 5.000NA 5.000UA

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

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 2

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-930.0UA		-640.0UA
265	4	-920.0UA		-640.0UA
271	10	-920.0UA		-640.0UA
277	11	-930.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.600MA		-2.000MA
307	4	-4.500MA		-2.000MA
313	10	-4.500MA		-2.000MA
319	11	-4.500MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.700MA	640.0UA	
349	4	1.710MA	640.0UA	
355	10	1.690MA	640.0UA	
361	11	1.690MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.980 V	9.950 V	
206	11	9.980 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.940MA		-1.600MA
265	4	-1.930MA		-1.600MA
271	10	-1.910MA		-1.600MA
277	11	-1.950MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT      GT
    343   3   3.600MA      1.600MA
    349   4   3.620MA      1.600MA
    355  10   3.580MA      1.600MA
    361  11   3.600MA      1.600MA
  
```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----
  
```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
    194   3  14.98 V      14.95 V
    198   4  14.98 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
  
```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
    223   3  10.01MV      50.00MV
    227   4  10.01MV      50.00MV
    231  10  10.01MV      50.00MV
    235  11  20.02MV      50.00MV
  
```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
    259   3  -7.400MA     -4.200MA
    265   4  -7.300MA     -4.200MA
    271  10  -7.300MA     -4.200MA
    277  11  -7.400MA     -4.200MA
  
```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
    343   3  13.30MA      4.200MA
    349   4  13.40MA      4.200MA
    355  10  13.20MA      4.200MA
    361  11  13.30MA      4.200MA
  
```

```

-----
IIL TEST
  
```

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

INST #	PIN	MEASURED	LT	GT
410	1	-27.00NA	-100.0NA	
414	2	-11.00NA	-100.0NA	
418	5	-74.00NA	-100.0NA	
422	6	-66.00NA	-100.0NA	
426	8	-36.00NA	-100.0NA	
430	9	-70.00NA	-100.0NA	
434	12	-55.00NA	-100.0NA	
438	13	-18.00NA	-100.0NA	

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

INST #	PIN	MEASURED	LT	GT
460	1	29.00NA		100.0NA
464	2	7.000NA		100.0NA
468	5	77.00NA		100.0NA
472	6	68.00NA		100.0NA
476	8	38.00NA		100.0NA
480	9	82.00NA		100.0NA
484	12	56.00NA		100.0NA
488	13	12.00NA		100.0NA

IDD TEST
 VDD = 5
 IDD LIMIT 250.0E-09
 VIN = 5

INST #	PIN	MEASURED	LT	GT
533	14	-31.00NA		250.0NA

IDD TEST
 VDD= 5
 IDD LIMIT 250.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	-5.000NA		250.0NA

IDD TEST
 VDD = 10
 IDD LIMIT 500.0E-09
 VIN = 10

INST #	PIN	MEASURED	LT	GT
533	14	-17.00NA		500.0NA

IDD TEST
 VDD= 10
 IDD LIMIT 500.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	0 A		500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -5.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   9.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 3

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-679.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	10.01MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-930.0UA		-640.0UA
265	4	-930.0UA		-640.0UA
271	10	-910.0UA		-640.0UA
277	11	-910.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.500MA		-2.000MA
307	4	-4.600MA		-2.000MA
313	10	-4.500MA		-2.000MA
319	11	-4.500MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.720MA	640.0UA	
349	4	1.720MA	640.0UA	
355	10	1.690MA	640.0UA	
361	11	1.690MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.950MA		-1.600MA
265	4	-1.940MA		-1.600MA
271	10	-1.910MA		-1.600MA
277	11	-1.910MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.650MA      1.600MA
    349   4   3.650MA      1.600MA
    355  10   3.580MA      1.600MA
    361  11   3.610MA      1.600MA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.98 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    223   3  20.02MV      50.00MV
    227   4  20.02MV      50.00MV
    231  10  10.01MV      50.00MV
    235  11  20.02MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    259   3  -7.400MA     -4.200MA
    265   4  -7.400MA     -4.200MA
    271  10  -7.300MA     -4.200MA
    277  11  -7.300MA     -4.200MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3  13.40MA      4.200MA
    349   4  13.50MA      4.200MA
    355  10  13.20MA      4.200MA
    361  11  13.30MA      4.200MA
-----

```

```

-----
IIL TEST
-----

```

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -27.00NA -100.0NA
414 2 -11.00NA -100.0NA
418 5 -74.00NA -100.0NA
422 6 -66.00NA -100.0NA
426 8 -36.00NA -100.0NA
430 9 -70.00NA -100.0NA
434 12 -55.00NA -100.0NA
438 13 -18.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 29.00NA 100.0NA
464 2 7.000NA 100.0NA
468 5 78.00NA 100.0NA
472 6 68.00NA 100.0NA
476 8 38.00NA 100.0NA
480 9 82.00NA 100.0NA
484 12 57.00NA 100.0NA
488 13 12.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -30.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -17.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -5.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   9.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 4

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-920.0UA		-640.0UA
265	4	-910.0UA		-640.0UA
271	10	-910.0UA		-640.0UA
277	11	-910.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.500MA		-2.000MA
307	4	-4.500MA		-2.000MA
313	10	-4.500MA		-2.000MA
319	11	-4.500MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.680MA	640.0UA	
349	4	1.690MA	640.0UA	
355	10	1.680MA	640.0UA	
361	11	1.680MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.930MA		-1.600MA
265	4	-1.910MA		-1.600MA
271	10	-1.900MA		-1.600MA
277	11	-1.910MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.580MA	1.600MA	
349	4	3.580MA	1.600MA	
355	10	3.550MA	1.600MA	
361	11	3.540MA	1.600MA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-7.300MA		-4.200MA
265	4	-7.300MA		-4.200MA
271	10	-7.200MA		-4.200MA
277	11	-7.200MA		-4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	13.20MA	4.200MA	
349	4	13.10MA	4.200MA	
355	10	13.10MA	4.200MA	
361	11	13.00MA	4.200MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -27.00NA -100.0NA
414 2 -11.00NA -100.0NA
418 5 -74.00NA -100.0NA
422 6 -66.00NA -100.0NA
426 8 -36.00NA -100.0NA
430 9 -70.00NA -100.0NA
434 12 -55.00NA -100.0NA
438 13 -18.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 29.00NA 100.0NA
464 2 7.000NA 100.0NA
468 5 77.00NA 100.0NA
472 6 67.00NA 100.0NA
476 8 38.00NA 100.0NA
480 9 82.00NA 100.0NA
484 12 57.00NA 100.0NA
488 13 12.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -30.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -16.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -5.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   9.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```


STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 5

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-940.0UA		-640.0UA
265	4	-930.0UA		-640.0UA
271	10	-920.0UA		-640.0UA
277	11	-930.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.600MA		-2.000MA
307	4	-4.600MA		-2.000MA
313	10	-4.500MA		-2.000MA
319	11	-4.500MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.660MA	640.0UA	
349	4	1.650MA	640.0UA	
355	10	1.650MA	640.0UA	
361	11	1.670MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.980 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	10.01MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.970MA		-1.600MA
265	4	-1.960MA		-1.600MA
271	10	-1.910MA		-1.600MA
277	11	-1.950MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.550MA      1.600MA
    349   4   3.520MA      1.600MA
    355  10   3.510MA      1.600MA
    361  11   3.580MA      1.600MA
  
```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----
  
```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.98 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
  
```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    223   3  20.02MV      50.00MV
    227   4  20.02MV      50.00MV
    231  10  20.02MV      50.00MV
    235  11  20.02MV      50.00MV
  
```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    259   3  -7.500MA     -4.200MA
    265   4  -7.400MA     -4.200MA
    271  10  -7.300MA     -4.200MA
    277  11  -7.500MA     -4.200MA
  
```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3  13.20MA      4.200MA
    349   4  13.10MA      4.200MA
    355  10  12.90MA      4.200MA
    361  11  13.20MA      4.200MA
  
```

```

-----
IIL TEST
  
```

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

INST #	PIN	MEASURED	LT	GT
410	1	-27.00NA	-100.0NA	
414	2	-11.00NA	-100.0NA	
418	5	-74.00NA	-100.0NA	
422	6	-66.00NA	-100.0NA	
426	8	-36.00NA	-100.0NA	
430	9	-70.00NA	-100.0NA	
434	12	-55.00NA	-100.0NA	
438	13	-17.00NA	-100.0NA	

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

INST #	PIN	MEASURED	LT	GT
460	1	29.00NA		100.0NA
464	2	7.000NA		100.0NA
468	5	78.00NA		100.0NA
472	6	68.00NA		100.0NA
476	8	38.00NA		100.0NA
480	9	81.00NA		100.0NA
484	12	57.00NA		100.0NA
488	13	12.00NA		100.0NA

IDD TEST
 VDD = 5
 IDD LIMIT 250.0E-09
 VIN = 5

INST #	PIN	MEASURED	LT	GT
533	14	-30.00NA		250.0NA

IDD TEST
 VDD= 5
 IDD LIMIT 250.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	-5.000NA		250.0NA

IDD TEST
 VDD = 10
 IDD LIMIT 500.0E-09
 VIN = 10

INST #	PIN	MEASURED	LT	GT
533	14	-17.00NA		500.0NA

IDD TEST
 VDD= 10
 IDD LIMIT 500.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	0 A		500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -5.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   9.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 6

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-679.9MV	-1.500 V	-100.0MV
62	5	-679.9MV	-1.500 V	-100.0MV
62	6	-679.9MV	-1.500 V	-100.0MV
62	8	-679.9MV	-1.500 V	-100.0MV
62	9	-679.9MV	-1.500 V	-100.0MV
62	12	-679.9MV	-1.500 V	-100.0MV
62	13	-679.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-910.0UA		-640.0UA
265	4	-900.0UA		-640.0UA
271	10	-900.0UA		-640.0UA
277	11	-920.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.400MA		-2.000MA
307	4	-4.400MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.500MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.690MA	640.0UA	
349	4	1.690MA	640.0UA	
355	10	1.680MA	640.0UA	
361	11	1.710MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.920MA		-1.600MA
265	4	-1.910MA		-1.600MA
271	10	-1.910MA		-1.600MA
277	11	-1.930MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 3.600MA 1.600MA
349 4 3.620MA 1.600MA
355 10 3.580MA 1.600MA
361 11 3.620MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -7.300MA -4.200MA
265 4 -7.300MA -4.200MA
271 10 -7.300MA -4.200MA
277 11 -7.400MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 13.30MA 4.200MA
349 4 13.40MA 4.200MA
355 10 13.20MA 4.200MA
361 11 13.30MA 4.200MA

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -26.00NA -100.0NA
414 2 -11.00NA -100.0NA
418 5 -75.00NA -100.0NA
422 6 -67.00NA -100.0NA
426 8 -36.00NA -100.0NA
430 9 -70.00NA -100.0NA
434 12 -55.00NA -100.0NA
438 13 -18.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 29.00NA 100.0NA
464 2 8.000NA 100.0NA
468 5 78.00NA 100.0NA
472 6 68.00NA 100.0NA
476 8 39.00NA 100.0NA
480 9 82.00NA 100.0NA
484 12 57.00NA 100.0NA
488 13 12.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -30.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -17.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -5.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   8.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 7

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-910.0UA		-640.0UA
265	4	-910.0UA		-640.0UA
271	10	-900.0UA		-640.0UA
277	11	-900.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.500MA		-2.000MA
307	4	-4.500MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.400MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.660MA	640.0UA	
349	4	1.660MA	640.0UA	
355	10	1.650MA	640.0UA	
361	11	1.650MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.910MA		-1.600MA
265	4	-1.910MA		-1.600MA
271	10	-1.890MA		-1.600MA
277	11	-1.890MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 3.550MA 1.600MA
349 4 3.560MA 1.600MA
355 10 3.510MA 1.600MA
361 11 3.510MA 1.600MA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 10.01MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -7.300MA -4.200MA
265 4 -7.300MA -4.200MA
271 10 -7.200MA -4.200MA
277 11 -7.200MA -4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 13.10MA 4.200MA
349 4 13.10MA 4.200MA
355 10 13.00MA 4.200MA
361 11 12.90MA 4.200MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -27.00NA    -100.0NA
414     2   -11.00NA    -100.0NA
418     5   -76.00NA    -100.0NA
422     6   -67.00NA    -100.0NA
426     8   -37.00NA    -100.0NA
430     9   -71.00NA    -100.0NA
434    12   -55.00NA    -100.0NA
438    13   -17.00NA    -100.0NA
  
```

```

-----
      IIH TEST
      VDD =      18
      IIH LIMIT 0.1UA @ 25C & -55C
      IIH LIMIT 1.0UA @ 125C
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
460     1   29.00NA     100.0NA
464     2    7.00NA     100.0NA
468     5   78.00NA     100.0NA
472     6   68.00NA     100.0NA
476     8   39.00NA     100.0NA
480     9   82.00NA     100.0NA
484    12   57.00NA     100.0NA
488    13   12.00NA     100.0NA
  
```

```

-----
      IDD TEST
      VDD =      5
      IDD LIMIT 250.0E-09
      VIN =      5
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -30.00NA     250.0NA
  
```

```

-----
      IDD TEST
      VDD=      5
      IDD LIMIT 250.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14  -5.000NA     250.0NA
  
```

```

-----
      IDD TEST
      VDD =     10
      IDD LIMIT 500.0E-09
      VIN =     10
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -17.00NA     500.0NA
  
```

```

-----
      IDD TEST
      VDD=     10
      IDD LIMIT 500.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14      0 A      500.0NA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT   1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -5.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT   1.000E-06
      VIN =       0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT   5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   9.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT   5.000E-06
      VIN =       0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   5.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 8

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-910.0UA		-640.0UA
265	4	-910.0UA		-640.0UA
271	10	-910.0UA		-640.0UA
277	11	-900.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.400MA		-2.000MA
307	4	-4.500MA		-2.000MA
313	10	-4.500MA		-2.000MA
319	11	-4.400MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.680MA	640.0UA	
349	4	1.690MA	640.0UA	
355	10	1.650MA	640.0UA	
361	11	1.650MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.910MA		-1.600MA
265	4	-1.910MA		-1.600MA
271	10	-1.900MA		-1.600MA
277	11	-1.910MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.620MA      1.600MA
    349   4   3.590MA      1.600MA
    355  10   3.500MA      1.600MA
    361  11   3.520MA      1.600MA
-----
```

```
-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----
```

```
-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.97 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
-----
```

```
-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    223   3  10.01MV      50.00MV
    227   4  20.02MV      50.00MV
    231  10  10.01MV      50.00MV
    235  11  10.01MV      50.00MV
-----
```

```
-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    259   3  -7.300MA     -4.200MA
    265   4  -7.300MA     -4.200MA
    271  10  -7.200MA     -4.200MA
    277  11  -7.300MA     -4.200MA
-----
```

```
-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3  13.30MA      4.200MA
    349   4  13.20MA      4.200MA
    355  10  12.90MA      4.200MA
    361  11  13.00MA      4.200MA
-----
```

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -27.00NA    -100.0NA
414     2   -11.00NA    -100.0NA
418     5   -76.00NA    -100.0NA
422     6   -67.00NA    -100.0NA
426     8   -37.00NA    -100.0NA
430     9   -71.00NA    -100.0NA
434    12   -55.00NA    -100.0NA
438    13   -17.00NA    -100.0NA
  
```

```

-----
      IIH TEST
      VDD =      18
      IIH LIMIT 0.1UA @ 25C & -55C
      IIH LIMIT 1.0UA @ 125C
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
460     1   29.00NA     100.0NA
464     2    7.000NA    100.0NA
468     5   78.00NA     100.0NA
472     6   68.00NA     100.0NA
476     8   39.00NA     100.0NA
480     9   82.00NA     100.0NA
484    12   57.00NA     100.0NA
488    13   12.00NA     100.0NA
  
```

```

-----
      IDD TEST
      VDD =      5
      IDD LIMIT 250.0E-09
      VIN =      5
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -30.00NA     250.0NA
  
```

```

-----
      IDD TEST
      VDD=      5
      IDD LIMIT 250.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14  -5.000NA     250.0NA
  
```

```

-----
      IDD TEST
      VDD =     10
      IDD LIMIT 500.0E-09
      VIN =     10
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -17.00NA     500.0NA
  
```

```

-----
      IDD TEST
      VDD=     10
      IDD LIMIT 500.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14    0 A         500.0NA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   8.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 9

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-920.0UA		-640.0UA
265	4	-920.0UA		-640.0UA
271	10	-920.0UA		-640.0UA
277	11	-910.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.500MA		-2.000MA
307	4	-4.500MA		-2.000MA
313	10	-4.500MA		-2.000MA
319	11	-4.500MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.620MA	640.0UA	
349	4	1.630MA	640.0UA	
355	10	1.620MA	640.0UA	
361	11	1.620MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.930MA		-1.600MA
265	4	-1.940MA		-1.600MA
271	10	-1.920MA		-1.600MA
277	11	-1.920MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.470MA      1.600MA
    349   4   3.520MA      1.600MA
    355  10   3.460MA      1.600MA
    361  11   3.470MA      1.600MA
-----
```

```
-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----
```

```
-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.98 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
-----
```

```
-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    223   3  10.01MV      50.00MV
    227   4  20.02MV      50.00MV
    231  10  20.02MV      50.00MV
    235  11  20.02MV      50.00MV
-----
```

```
-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    259   3  -7.400MA     -4.200MA
    265   4  -7.400MA     -4.200MA
    271  10  -7.300MA     -4.200MA
    277  11  -7.300MA     -4.200MA
-----
```

```
-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3  12.80MA      4.200MA
    349   4  13.00MA      4.200MA
    355  10  12.80MA      4.200MA
    361  11  12.80MA      4.200MA
-----
```

```
-----
IIL TEST
-----
```

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -27.00NA -100.0NA
414 2 -11.00NA -100.0NA
418 5 -76.00NA -100.0NA
422 6 -67.00NA -100.0NA
426 8 -37.00NA -100.0NA
430 9 -71.00NA -100.0NA
434 12 -56.00NA -100.0NA
438 13 -18.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 29.00NA 100.0NA
464 2 8.000NA 100.0NA
468 5 79.00NA 100.0NA
472 6 68.00NA 100.0NA
476 8 39.00NA 100.0NA
480 9 82.00NA 100.0NA
484 12 57.00NA 100.0NA
488 13 12.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -30.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -17.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA


```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   8.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 10

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-900.0UA		-640.0UA
265	4	-900.0UA		-640.0UA
271	10	-890.0UA		-640.0UA
277	11	-900.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.400MA		-2.000MA
307	4	-4.400MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.400MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.670MA	640.0UA	
349	4	1.670MA	640.0UA	
355	10	1.650MA	640.0UA	
361	11	1.650MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.900MA		-1.600MA
265	4	-1.890MA		-1.600MA
271	10	-1.870MA		-1.600MA
277	11	-1.900MA		-1.600MA

IOL TEST
 VDD= 10
 IOL LIMIT 1.600E-03
 VO= 500.0E-03

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3   3.540MA      1.600MA
    349   4   3.530MA      1.600MA
    355  10   3.490MA      1.600MA
    361  11   3.480MA      1.600MA
-----
```

```
-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----
```

```
-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    194   3   14.98 V      14.95 V
    198   4   14.98 V      14.95 V
    202  10   14.98 V      14.95 V
    206  11   14.98 V      14.95 V
-----
```

```
-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    223   3   10.01MV      50.00MV
    227   4   20.02MV      50.00MV
    231  10   30.03MV      50.00MV
    235  11   20.02MV      50.00MV
-----
```

```
-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    259   3   -7.200MA     -4.200MA
    265   4   -7.200MA     -4.200MA
    271  10   -7.100MA     -4.200MA
    277  11   -7.200MA     -4.200MA
-----
```

```
-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----
```

```
-----
INST #  PIN  MEASURED      LT          GT
    343   3   13.00MA      4.200MA
    349   4   13.00MA      4.200MA
    355  10   12.80MA      4.200MA
    361  11   12.80MA      4.200MA
-----
```

```
-----
IIL TEST
-----
```

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -27.00NA    -100.0NA
414     2   -11.00NA    -100.0NA
418     5   -76.00NA    -100.0NA
422     6   -67.00NA    -100.0NA
426     8   -37.00NA    -100.0NA
430     9   -71.00NA    -100.0NA
434    12   -56.00NA    -100.0NA
438    13   -18.00NA    -100.0NA
  
```

```

-----
      IIH TEST
      VDD =      18
      IIH LIMIT 0.1UA @ 25C & -55C
      IIH LIMIT 1.0UA @ 125C
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
460     1   29.00NA     100.0NA
464     2    7.000NA    100.0NA
468     5   78.00NA     100.0NA
472     6   68.00NA     100.0NA
476     8   39.00NA     100.0NA
480     9   82.00NA     100.0NA
484    12   57.00NA     100.0NA
488    13   12.00NA     100.0NA
  
```

```

-----
      IDD TEST
      VDD =      5
      IDD LIMIT 250.0E-09
      VIN =      5
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -30.00NA     250.0NA
  
```

```

-----
      IDD TEST
      VDD=      5
      IDD LIMIT 250.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14  -5.000NA     250.0NA
  
```

```

-----
      IDD TEST
      VDD =     10
      IDD LIMIT 500.0E-09
      VIN =     10
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14  -18.00NA     500.0NA
  
```

```

-----
      IDD TEST
      VDD=     10
      IDD LIMIT 500.0E-09
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14      0 A      500.0NA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   8.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   5.000NA                5.000UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS      PASS      EOT

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 11

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-900.0UA		-640.0UA
265	4	-890.0UA		-640.0UA
271	10	-890.0UA		-640.0UA
277	11	-900.0UA		-640.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -2.000E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-4.400MA		-2.000MA
307	4	-4.400MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.400MA		-2.000MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  640.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.680MA	640.0UA	
349	4	1.670MA	640.0UA	
355	10	1.660MA	640.0UA	
361	11	1.660MA	640.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	10.01MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -1.600E-03
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.890MA		-1.600MA
265	4	-1.880MA		-1.600MA
271	10	-1.880MA		-1.600MA
277	11	-1.890MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    3.560MA      1.600MA
349    4    3.550MA      1.600MA
355   10    3.510MA      1.600MA
361   11    3.510MA      1.600MA

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
194    3    14.98 V      14.95 V
198    4    14.98 V      14.95 V
202   10    14.98 V      14.95 V
206   11    14.98 V      14.95 V

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
223    3    10.01MV      50.00MV
227    4    20.02MV      50.00MV
231   10    10.01MV      50.00MV
235   11    20.02MV      50.00MV

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
259    3    -7.200MA     -4.200MA
265    4    -7.100MA     -4.200MA
271   10    -7.200MA     -4.200MA
277   11    -7.200MA     -4.200MA

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
343    3    13.10MA      4.200MA
349    4    13.10MA      4.200MA
355   10    12.90MA      4.200MA
361   11    12.90MA      4.200MA

```

```

-----
IIL TEST

```

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

INST #	PIN	MEASURED	LT	GT
410	1	-27.00NA	-100.0NA	
414	2	-11.00NA	-100.0NA	
418	5	-76.00NA	-100.0NA	
422	6	-67.00NA	-100.0NA	
426	8	-37.00NA	-100.0NA	
430	9	-71.00NA	-100.0NA	
434	12	-56.00NA	-100.0NA	
438	13	-18.00NA	-100.0NA	

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

INST #	PIN	MEASURED	LT	GT
460	1	29.00NA		100.0NA
464	2	7.000NA		100.0NA
468	5	79.00NA		100.0NA
472	6	68.00NA		100.0NA
476	8	39.00NA		100.0NA
480	9	82.00NA		100.0NA
484	12	57.00NA		100.0NA
488	13	12.00NA		100.0NA

IDD TEST
 VDD = 5
 IDD LIMIT 250.0E-09
 VIN = 5

INST #	PIN	MEASURED	LT	GT
533	14	-30.00NA		250.0NA

IDD TEST
 VDD= 5
 IDD LIMIT 250.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	-5.000NA		250.0NA

IDD TEST
 VDD = 10
 IDD LIMIT 500.0E-09
 VIN = 10

INST #	PIN	MEASURED	LT	GT
533	14	-17.00NA		500.0NA

IDD TEST
 VDD= 10
 IDD LIMIT 500.0E-09
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	0 A		500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   8.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS      PASS      EOT

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 12

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-639.9MV	-1.500 V	-100.0MV
62	2	-639.9MV	-1.500 V	-100.0MV
62	5	-639.9MV	-1.500 V	-100.0MV
62	6	-639.9MV	-1.500 V	-100.0MV
62	8	-639.9MV	-1.500 V	-100.0MV
62	9	-639.9MV	-1.500 V	-100.0MV
62	12	-639.9MV	-1.500 V	-100.0MV
62	13	-639.9MV	-1.500 V	-100.0MV
62	14	-520.0MV	-1.500 V	-100.0MV
72	3	520.0MV	100.0MV	1.500 V
72	4	520.0MV	100.0MV	1.500 V
72	10	520.0MV	100.0MV	1.500 V
72	11	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -640.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-900.0UA		-640.0UA
265	4	-900.0UA		-640.0UA
271	10	-890.0UA		-640.0UA
277	11	-890.0UA		-640.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -2.000E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-4.400MA		-2.000MA
307	4	-4.400MA		-2.000MA
313	10	-4.400MA		-2.000MA
319	11	-4.400MA		-2.000MA

IOL TEST
VDD= 5
IOL LIMIT 640.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.650MA	640.0UA	
349	4	1.650MA	640.0UA	
355	10	1.660MA	640.0UA	
361	11	1.650MA	640.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -1.600E-03
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.900MA		-1.600MA
265	4	-1.880MA		-1.600MA
271	10	-1.880MA		-1.600MA
277	11	-1.890MA		-1.600MA

IOL TEST
VDD= 10
IOL LIMIT 1.600E-03
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	3.530MA	1.600MA	
349	4	3.510MA	1.600MA	
355	10	3.510MA	1.600MA	
361	11	3.520MA	1.600MA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.97 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -4.200E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-7.300MA		-4.200MA
265	4	-7.200MA		-4.200MA
271	10	-7.200MA		-4.200MA
277	11	-7.200MA		-4.200MA

IOL TEST
VDD= 15
IOL LIMIT 4.200E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	13.00MA	4.200MA	
349	4	12.90MA	4.200MA	
355	10	12.90MA	4.200MA	
361	11	12.90MA	4.200MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -27.00NA -100.0NA
414 2 -11.00NA -100.0NA
418 5 -76.00NA -100.0NA
422 6 -67.00NA -100.0NA
426 8 -37.00NA -100.0NA
430 9 -71.00NA -100.0NA
434 12 -56.00NA -100.0NA
438 13 -18.00NA -100.0NA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 29.00NA 100.0NA
464 2 8.000NA 100.0NA
468 5 79.00NA 100.0NA
472 6 68.00NA 100.0NA
476 8 39.00NA 100.0NA
480 9 82.00NA 100.0NA
484 12 57.00NA 100.0NA
488 13 13.00NA 100.0NA

IDD TEST
VDD = 5
IDD LIMIT 250.0E-09
VIN = 5

INST # PIN MEASURED LT GT
533 14 -30.00NA 250.0NA

IDD TEST
VDD= 5
IDD LIMIT 250.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 -5.000NA 250.0NA

IDD TEST
VDD = 10
IDD LIMIT 500.0E-09
VIN = 10

INST # PIN MEASURED LT GT
533 14 -18.00NA 500.0NA

IDD TEST
VDD= 10
IDD LIMIT 500.0E-09
VIN = 0

INST # PIN MEASURED LT GT
549 14 0 A 500.0NA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  1.000E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14  -6.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  1.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   2.000NA                1.000UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  5.000E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   8.000NA                5.000UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  5.000E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   4.000NA                5.000UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS      PASS      EOT

```




MIL-PRF-38534 CLASS K DATAPACK

Post Burn-In Test Results at +125°C



STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 1

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-560.1MV	-1.500 V	-100.0MV
62	2	-520.0MV	-1.500 V	-100.0MV
62	5	-520.0MV	-1.500 V	-100.0MV
62	6	-520.0MV	-1.500 V	-100.0MV
62	8	-520.0MV	-1.500 V	-100.0MV
62	9	-520.0MV	-1.500 V	-100.0MV
62	12	-520.0MV	-1.500 V	-100.0MV
62	13	-520.0MV	-1.500 V	-100.0MV
62	14	-399.9MV	-1.500 V	-100.0MV
72	3	399.9MV	100.0MV	1.500 V
72	4	399.9MV	100.0MV	1.500 V
72	10	399.9MV	100.0MV	1.500 V
72	11	399.9MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-720.0UA		-360.0UA
265	4	-720.0UA		-360.0UA
271	10	-720.0UA		-360.0UA
277	11	-710.0UA		-360.0UA

IOH2 TEST

VDD= 5
IOH LIMIT -1.150E-03
VO = 2.500

INST # PIN MEASURED LT GT
301 3 -3.500MA -1.150MA
307 4 -3.600MA -1.150MA
313 10 -3.500MA -1.150MA
319 11 -3.500MA -1.150MA

IOL TEST
VDD= 5
IOL LIMIT 360.0E-06
VO= 400.0E-03

INST # PIN MEASURED LT GT
343 3 1.260MA 360.0UA
349 4 1.260MA 360.0UA
355 10 1.250MA 360.0UA
361 11 1.250MA 360.0UA

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST # PIN MEASURED LT GT
194 3 9.980 V 9.950 V
198 4 9.970 V 9.950 V
202 10 9.970 V 9.950 V
206 11 9.970 V 9.950 V

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 10.01MV 50.00MV
227 4 10.01MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 10
IOH LIMIT -900.0E-06
VO = 9.500

INST # PIN MEASURED LT GT
259 3 -1.510MA -900.0UA
265 4 -1.510MA -900.0UA
271 10 -1.490MA -900.0UA
277 11 -1.490MA -900.0UA

IOL TEST
VDD= 10

IOL LIMIT 900.0E-06
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 2.670MA 900.0UA
349 4 2.650MA 900.0UA
355 10 2.600MA 900.0UA
361 11 2.630MA 900.0UA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -5.800MA -2.400MA
265 4 -5.700MA -2.400MA
271 10 -5.700MA -2.400MA
277 11 -5.700MA -2.400MA

IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 9.700MA 2.400MA
349 4 9.700MA 2.400MA
355 10 9.500MA 2.400MA
361 11 9.600MA 2.400MA

IIL TEST
VDD= 18
IIL LIMIT -0.1UA @25C & -55C

IIL LIMIT -1.0UA @ +125C

```
-----  
INST #  PIN  MEASURED      LT          GT  
410     1   -40.00NA    -1.000UA  
414     2   -12.00NA    -1.000UA  
418     5   -110.0NA    -1.000UA  
422     6   -106.0NA    -1.000UA  
426     8   -60.00NA    -1.000UA  
430     9   -104.0NA    -1.000UA  
434    12   -30.00NA    -1.000UA  
438    13   -24.00NA    -1.000UA  
-----
```

```
-----  
      IIH TEST  
      VDD =      18  
      IIH LIMIT 0.1UA @ 25C & -55C  
      IIH LIMIT 1.0UA @ 125C  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
460     1   45.00NA     1.000UA  
464     2   9.000NA     1.000UA  
468     5   115.0NA     1.000UA  
472     6   110.0NA     1.000UA  
476     8   65.00NA     1.000UA  
480     9   122.0NA     1.000UA  
484    12   32.00NA     1.000UA  
488    13   20.00NA     1.000UA  
-----
```

```
-----  
      IDD TEST  
      VDD =      5  
      IDD LIMIT 7.500E-06  
      VIN =      5  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14  -11.00NA     7.500UA  
-----
```

```
-----  
      IDD TEST  
      VDD=      5  
      IDD LIMIT 7.500E-06  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14  26.00NA     7.500UA  
-----
```

```
-----  
      IDD TEST  
      VDD =     10  
      IDD LIMIT 15.00E-06  
      VIN =     10  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
533    14  11.00NA     15.00UA  
-----
```

```
-----  
      IDD TEST  
      VDD=     10  
      IDD LIMIT 15.00E-06  
      VIN =      0  
-----
```

```
-----  
INST #  PIN  MEASURED      LT          GT  
549    14  37.00NA     15.00UA  
-----
```

IDD TEST
VDD = 15
IDD LIMIT 30.00E-06
VIN = 15

INST # PIN MEASURED LT GT
533 14 28.00NA 30.00UA

IDD TEST
VDD= 15
IDD LIMIT 30.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 47.00NA 30.00UA

IDD TEST
VDD = 20
IDD LIMIT 150.0E-06
VIN = 20

INST # PIN MEASURED LT GT
533 14 48.00NA 150.0UA

IDD TEST
VDD= 20
IDD LIMIT 150.0E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 56.00NA 150.0UA

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

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 2

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-520.0MV	-1.500 V	-100.0MV
62	2	-520.0MV	-1.500 V	-100.0MV
62	5	-520.0MV	-1.500 V	-100.0MV
62	6	-520.0MV	-1.500 V	-100.0MV
62	8	-520.0MV	-1.500 V	-100.0MV
62	9	-520.0MV	-1.500 V	-100.0MV
62	12	-520.0MV	-1.500 V	-100.0MV
62	13	-520.0MV	-1.500 V	-100.0MV
62	14	-360.1MV	-1.500 V	-100.0MV
72	3	360.1MV	100.0MV	1.500 V
72	4	399.9MV	100.0MV	1.500 V
72	10	399.9MV	100.0MV	1.500 V
72	11	360.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-710.0UA		-360.0UA
265	4	-710.0UA		-360.0UA
271	10	-700.0UA		-360.0UA
277	11	-710.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-3.500MA		-1.150MA
307	4	-3.500MA		-1.150MA
313	10	-3.400MA		-1.150MA
319	11	-3.500MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.250MA	360.0UA	
349	4	1.250MA	360.0UA	
355	10	1.230MA	360.0UA	
361	11	1.230MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.500MA		-900.0UA
265	4	-1.490MA		-900.0UA
271	10	-1.470MA		-900.0UA
277	11	-1.500MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 2.660MA 900.0UA
349 4 2.670MA 900.0UA
355 10 2.630MA 900.0UA
361 11 2.650MA 900.0UA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 10.01MV 50.00MV
227 4 10.01MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -5.800MA -2.400MA
265 4 -5.700MA -2.400MA
271 10 -5.700MA -2.400MA
277 11 -5.800MA -2.400MA

IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 9.800MA 2.400MA
349 4 9.900MA 2.400MA
355 10 9.700MA 2.400MA
361 11 9.700MA 2.400MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

INST #	PIN	MEASURED	LT	GT
410	1	-59.00NA	-1.000UA	
414	2	-13.00NA	-1.000UA	
418	5	-161.0NA	-1.000UA	
422	6	-150.0NA	-1.000UA	
426	8	-90.00NA	-1.000UA	
430	9	-135.0NA	-1.000UA	
434	12	-38.00NA	-1.000UA	
438	13	-32.00NA	-1.000UA	

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

INST #	PIN	MEASURED	LT	GT
460	1	68.00NA		1.000UA
464	2	10.00NA		1.000UA
468	5	170.0NA		1.000UA
472	6	156.0NA		1.000UA
476	8	99.00NA		1.000UA
480	9	158.0NA		1.000UA
484	12	42.00NA		1.000UA
488	13	27.00NA		1.000UA

IDD TEST
 VDD = 5
 IDD LIMIT 7.500E-06
 VIN = 5

INST #	PIN	MEASURED	LT	GT
533	14	9.000NA		7.500UA

IDD TEST
 VDD= 5
 IDD LIMIT 7.500E-06
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	48.00NA		7.500UA

IDD TEST
 VDD = 10
 IDD LIMIT 15.00E-06
 VIN = 10

INST #	PIN	MEASURED	LT	GT
533	14	32.00NA		15.00UA

IDD TEST
 VDD= 10
 IDD LIMIT 15.00E-06
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	62.00NA		15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14   51.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   74.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   73.00NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   86.00NA                150.0UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 3

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-520.0MV	-1.500 V	-100.0MV
62	2	-520.0MV	-1.500 V	-100.0MV
62	5	-520.0MV	-1.500 V	-100.0MV
62	6	-520.0MV	-1.500 V	-100.0MV
62	8	-520.0MV	-1.500 V	-100.0MV
62	9	-480.0MV	-1.500 V	-100.0MV
62	12	-480.0MV	-1.500 V	-100.0MV
62	13	-480.0MV	-1.500 V	-100.0MV
62	14	-320.1MV	-1.500 V	-100.0MV
72	3	360.1MV	100.0MV	1.500 V
72	4	360.1MV	100.0MV	1.500 V
72	10	360.1MV	100.0MV	1.500 V
72	11	360.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-700.0UA		-360.0UA
265	4	-700.0UA		-360.0UA
271	10	-690.0UA		-360.0UA
277	11	-690.0UA		-360.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -1.150E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-3.400MA		-1.150MA
307	4	-3.500MA		-1.150MA
313	10	-3.400MA		-1.150MA
319	11	-3.400MA		-1.150MA

IOL TEST
VDD= 5
IOL LIMIT 360.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.230MA	360.0UA	
349	4	1.240MA	360.0UA	
355	10	1.220MA	360.0UA	
361	11	1.210MA	360.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.980 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.980 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -900.0E-06
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.490MA		-900.0UA
265	4	-1.480MA		-900.0UA
271	10	-1.450MA		-900.0UA
277	11	-1.470MA		-900.0UA

IOL TEST
 VDD= 10
 IOL LIMIT 900.0E-06
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	2.650MA	900.0UA	
349	4	2.640MA	900.0UA	
355	10	2.590MA	900.0UA	
361	11	2.610MA	900.0UA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -2.400E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-5.700MA		-2.400MA
265	4	-5.700MA		-2.400MA
271	10	-5.600MA		-2.400MA
277	11	-5.600MA		-2.400MA

IOL TEST
 VDD= 15
 IOL LIMIT 2.400E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	9.800MA	2.400MA	
349	4	9.800MA	2.400MA	
355	10	9.600MA	2.400MA	
361	11	9.600MA	2.400MA	

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -70.00NA    -1.000UA
414     2   -13.00NA    -1.000UA
418     5   -192.0NA    -1.000UA
422     6   -176.0NA    -1.000UA
426     8   -110.0NA    -1.000UA
430     9   -156.0NA    -1.000UA
434    12   -42.00NA    -1.000UA
438    13   -37.00NA    -1.000UA
  
```

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

```

-----
INST #  PIN  MEASURED      LT          GT
460     1    78.00NA    1.000UA
464     2    10.00NA    1.000UA
468     5    203.0NA    1.000UA
472     6    186.0NA    1.000UA
476     8    121.0NA    1.000UA
480     9    182.0NA    1.000UA
484    12    48.00NA    1.000UA
488    13    32.00NA    1.000UA
  
```

IDD TEST
 VDD = 5
 IDD LIMIT 7.500E-06
 VIN = 5

```

-----
INST #  PIN  MEASURED      LT          GT
533    14    22.00NA    7.500UA
  
```

IDD TEST
 VDD= 5
 IDD LIMIT 7.500E-06
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14    63.00NA    7.500UA
  
```

IDD TEST
 VDD = 10
 IDD LIMIT 15.00E-06
 VIN = 10

```

-----
INST #  PIN  MEASURED      LT          GT
533    14    48.00NA    15.00UA
  
```

IDD TEST
 VDD= 10
 IDD LIMIT 15.00E-06
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14    80.00NA    15.00UA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT   30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14   70.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT   30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   94.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT   150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   92.00NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT   150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   107.0NA              150.0UA

```

```

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

```


STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 4

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-520.0MV	-1.500 V	-100.0MV
62	2	-520.0MV	-1.500 V	-100.0MV
62	5	-520.0MV	-1.500 V	-100.0MV
62	6	-520.0MV	-1.500 V	-100.0MV
62	8	-520.0MV	-1.500 V	-100.0MV
62	9	-520.0MV	-1.500 V	-100.0MV
62	12	-520.0MV	-1.500 V	-100.0MV
62	13	-520.0MV	-1.500 V	-100.0MV
62	14	-360.1MV	-1.500 V	-100.0MV
72	3	360.1MV	100.0MV	1.500 V
72	4	360.1MV	100.0MV	1.500 V
72	10	360.1MV	100.0MV	1.500 V
72	11	360.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	10.01MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-700.0UA		-360.0UA
265	4	-700.0UA		-360.0UA
271	10	-700.0UA		-360.0UA
277	11	-700.0UA		-360.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -1.150E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-3.500MA		-1.150MA
307	4	-3.500MA		-1.150MA
313	10	-3.500MA		-1.150MA
319	11	-3.500MA		-1.150MA

IOL TEST
VDD= 5
IOL LIMIT 360.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.240MA	360.0UA	
349	4	1.240MA	360.0UA	
355	10	1.230MA	360.0UA	
361	11	1.230MA	360.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.980 V	9.950 V	
206	11	9.980 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -900.0E-06
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.490MA		-900.0UA
265	4	-1.480MA		-900.0UA
271	10	-1.470MA		-900.0UA
277	11	-1.480MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	2.650MA	900.0UA	
349	4	2.650MA	900.0UA	
355	10	2.620MA	900.0UA	
361	11	2.620MA	900.0UA	

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	10.01MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-5.700MA		-2.400MA
265	4	-5.700MA		-2.400MA
271	10	-5.700MA		-2.400MA
277	11	-5.700MA		-2.400MA

IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	9.800MA	2.400MA	
349	4	9.800MA	2.400MA	
355	10	9.700MA	2.400MA	
361	11	9.600MA	2.400MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -74.00NA -1.000UA
414 2 -13.00NA -1.000UA
418 5 -205.0NA -1.000UA
422 6 -190.0NA -1.000UA
426 8 -119.0NA -1.000UA
430 9 -166.0NA -1.000UA
434 12 -44.00NA -1.000UA
438 13 -39.00NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 82.00NA 1.000UA
464 2 10.00NA 1.000UA
468 5 215.0NA 1.000UA
472 6 198.0NA 1.000UA
476 8 132.0NA 1.000UA
480 9 195.0NA 1.000UA
484 12 51.00NA 1.000UA
488 13 34.00NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 12.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 49.00NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 34.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 63.00NA 15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14   54.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   76.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   75.00NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   87.00NA                150.0UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 5

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-520.0MV	-1.500 V	-100.0MV
62	2	-520.0MV	-1.500 V	-100.0MV
62	5	-520.0MV	-1.500 V	-100.0MV
62	6	-520.0MV	-1.500 V	-100.0MV
62	8	-520.0MV	-1.500 V	-100.0MV
62	9	-480.0MV	-1.500 V	-100.0MV
62	12	-480.0MV	-1.500 V	-100.0MV
62	13	-480.0MV	-1.500 V	-100.0MV
62	14	-360.1MV	-1.500 V	-100.0MV
72	3	360.1MV	100.0MV	1.500 V
72	4	360.1MV	100.0MV	1.500 V
72	10	360.1MV	100.0MV	1.500 V
72	11	360.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-710.0UA		-360.0UA
265	4	-710.0UA		-360.0UA
271	10	-700.0UA		-360.0UA
277	11	-700.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-3.500MA		-1.150MA
307	4	-3.500MA		-1.150MA
313	10	-3.400MA		-1.150MA
319	11	-3.500MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT 360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.210MA	360.0UA	
349	4	1.200MA	360.0UA	
355	10	1.200MA	360.0UA	
361	11	1.210MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT 9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	30.03MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.520MA		-900.0UA
265	4	-1.510MA		-900.0UA
271	10	-1.480MA		-900.0UA
277	11	-1.500MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 2.610MA 900.0UA
349 4 2.580MA 900.0UA
355 10 2.560MA 900.0UA
361 11 2.600MA 900.0UA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 10.01MV 50.00MV
227 4 20.02MV 50.00MV
231 10 10.01MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -5.800MA -2.400MA
265 4 -5.800MA -2.400MA
271 10 -5.700MA -2.400MA
277 11 -5.800MA -2.400MA

IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 9.700MA 2.400MA
349 4 9.600MA 2.400MA
355 10 9.500MA 2.400MA
361 11 9.700MA 2.400MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

INST #	PIN	MEASURED	LT	GT
410	1	-76.00NA	-1.000UA	
414	2	-13.00NA	-1.000UA	
418	5	-208.0NA	-1.000UA	
422	6	-192.0NA	-1.000UA	
426	8	-122.0NA	-1.000UA	
430	9	-169.0NA	-1.000UA	
434	12	-44.00NA	-1.000UA	
438	13	-39.00NA	-1.000UA	

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

INST #	PIN	MEASURED	LT	GT
460	1	84.00NA		1.000UA
464	2	10.00NA		1.000UA
468	5	216.0NA		1.000UA
472	6	200.0NA		1.000UA
476	8	135.0NA		1.000UA
480	9	198.0NA		1.000UA
484	12	50.00NA		1.000UA
488	13	33.00NA		1.000UA

IDD TEST
 VDD = 5
 IDD LIMIT 7.500E-06
 VIN = 5

INST #	PIN	MEASURED	LT	GT
533	14	12.00NA		7.500UA

IDD TEST
 VDD= 5
 IDD LIMIT 7.500E-06
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	50.00NA		7.500UA

IDD TEST
 VDD = 10
 IDD LIMIT 15.00E-06
 VIN = 10

INST #	PIN	MEASURED	LT	GT
533	14	34.00NA		15.00UA

IDD TEST
 VDD= 10
 IDD LIMIT 15.00E-06
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	63.00NA		15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14   54.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   76.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   75.00NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   87.00NA                150.0UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 6

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-520.0MV	-1.500 V	-100.0MV
62	2	-520.0MV	-1.500 V	-100.0MV
62	5	-520.0MV	-1.500 V	-100.0MV
62	6	-520.0MV	-1.500 V	-100.0MV
62	8	-520.0MV	-1.500 V	-100.0MV
62	9	-520.0MV	-1.500 V	-100.0MV
62	12	-520.0MV	-1.500 V	-100.0MV
62	13	-520.0MV	-1.500 V	-100.0MV
62	14	-360.1MV	-1.500 V	-100.0MV
72	3	360.1MV	100.0MV	1.500 V
72	4	360.1MV	100.0MV	1.500 V
72	10	360.1MV	100.0MV	1.500 V
72	11	360.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-690.0UA		-360.0UA
265	4	-690.0UA		-360.0UA
271	10	-690.0UA		-360.0UA
277	11	-700.0UA		-360.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -1.150E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-3.400MA		-1.150MA
307	4	-3.400MA		-1.150MA
313	10	-3.400MA		-1.150MA
319	11	-3.400MA		-1.150MA

IOL TEST
VDD= 5
IOL LIMIT 360.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.230MA	360.0UA	
349	4	1.230MA	360.0UA	
355	10	1.220MA	360.0UA	
361	11	1.230MA	360.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -900.0E-06
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.470MA		-900.0UA
265	4	-1.460MA		-900.0UA
271	10	-1.460MA		-900.0UA
277	11	-1.480MA		-900.0UA

IOL TEST
 VDD= 10
 IOL LIMIT 900.0E-06
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	2.620MA	900.0UA	
349	4	2.640MA	900.0UA	
355	10	2.610MA	900.0UA	
361	11	2.620MA	900.0UA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -2.400E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-5.700MA		-2.400MA
265	4	-5.600MA		-2.400MA
271	10	-5.600MA		-2.400MA
277	11	-5.700MA		-2.400MA

IOL TEST
 VDD= 15
 IOL LIMIT 2.400E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	9.700MA	2.400MA	
349	4	9.800MA	2.400MA	
355	10	9.600MA	2.400MA	
361	11	9.700MA	2.400MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -75.00NA -1.000UA
414 2 -14.00NA -1.000UA
418 5 -213.0NA -1.000UA
422 6 -203.0NA -1.000UA
426 8 -125.0NA -1.000UA
430 9 -173.0NA -1.000UA
434 12 -46.00NA -1.000UA
438 13 -40.00NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 84.00NA 1.000UA
464 2 10.00NA 1.000UA
468 5 224.0NA 1.000UA
472 6 210.0NA 1.000UA
476 8 138.0NA 1.000UA
480 9 202.0NA 1.000UA
484 12 52.00NA 1.000UA
488 13 35.00NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 22.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 61.00NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 46.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 77.00NA 15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14   68.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   92.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   90.00NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   105.0NA              150.0UA

```

```

EIR 1.....10      FCT      DCT
    000000000      PASS      PASS      EOT

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 7

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-480.0MV	-1.500 V	-100.0MV
62	2	-480.0MV	-1.500 V	-100.0MV
62	5	-480.0MV	-1.500 V	-100.0MV
62	6	-480.0MV	-1.500 V	-100.0MV
62	8	-480.0MV	-1.500 V	-100.0MV
62	9	-480.0MV	-1.500 V	-100.0MV
62	12	-480.0MV	-1.500 V	-100.0MV
62	13	-480.0MV	-1.500 V	-100.0MV
62	14	-320.1MV	-1.500 V	-100.0MV
72	3	360.1MV	100.0MV	1.500 V
72	4	360.1MV	100.0MV	1.500 V
72	10	360.1MV	100.0MV	1.500 V
72	11	360.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-680.0UA		-360.0UA
265	4	-680.0UA		-360.0UA
271	10	-680.0UA		-360.0UA
277	11	-680.0UA		-360.0UA


```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-3.400MA		-1.150MA
307	4	-3.400MA		-1.150MA
313	10	-3.300MA		-1.150MA
319	11	-3.300MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT 360.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.200MA	360.0UA	
349	4	1.210MA	360.0UA	
355	10	1.190MA	360.0UA	
361	11	1.190MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=     10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=     10
VOH LIMIT 9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=     10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	30.03MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=     10
IOH LIMIT -900.0E-06
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.450MA		-900.0UA
265	4	-1.450MA		-900.0UA
271	10	-1.440MA		-900.0UA
277	11	-1.440MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 2.580MA 900.0UA
349 4 2.590MA 900.0UA
355 10 2.550MA 900.0UA
361 11 2.540MA 900.0UA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 20.02MV 50.00MV
235 11 10.01MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -5.600MA -2.400MA
265 4 -5.600MA -2.400MA
271 10 -5.600MA -2.400MA
277 11 -5.600MA -2.400MA

IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 9.600MA 2.400MA
349 4 9.600MA 2.400MA
355 10 9.400MA 2.400MA
361 11 9.400MA 2.400MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT      GT
410     1   -79.00NA    -1.000UA
414     2   -14.00NA    -1.000UA
418     5   -215.0NA    -1.000UA
422     6   -204.0NA    -1.000UA
426     8   -128.0NA    -1.000UA
430     9   -176.0NA    -1.000UA
434    12   -46.00NA    -1.000UA
438    13   -42.00NA    -1.000UA
  
```

```

-----
      IIH TEST
      VDD =      18
      IIH LIMIT 0.1UA @ 25C & -55C
      IIH LIMIT 1.0UA @ 125C
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
460     1   88.00NA    1.000UA
464     2   10.00NA    1.000UA
468     5   223.0NA    1.000UA
472     6   210.0NA    1.000UA
476     8   141.0NA    1.000UA
480     9   206.0NA    1.000UA
484    12   53.00NA    1.000UA
488    13   36.00NA    1.000UA
  
```

```

-----
      IDD TEST
      VDD =      5
      IDD LIMIT 7.500E-06
      VIN =      5
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
533    14   44.00NA    7.500UA
  
```

```

-----
      IDD TEST
      VDD=      5
      IDD LIMIT 7.500E-06
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
549    14   86.00NA    7.500UA
  
```

```

-----
      IDD TEST
      VDD =     10
      IDD LIMIT 15.00E-06
      VIN =     10
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
533    14   78.00NA    15.00UA
  
```

```

-----
      IDD TEST
      VDD=     10
      IDD LIMIT 15.00E-06
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT      GT
549    14   112.0NA    15.00UA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT   30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14   105.0NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT   30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   133.0NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT   150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   134.0NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT   150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   153.0NA                150.0UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 8

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-480.0MV	-1.500 V	-100.0MV
62	2	-480.0MV	-1.500 V	-100.0MV
62	5	-480.0MV	-1.500 V	-100.0MV
62	6	-480.0MV	-1.500 V	-100.0MV
62	8	-480.0MV	-1.500 V	-100.0MV
62	9	-480.0MV	-1.500 V	-100.0MV
62	12	-480.0MV	-1.500 V	-100.0MV
62	13	-480.0MV	-1.500 V	-100.0MV
62	14	-360.1MV	-1.500 V	-100.0MV
72	3	360.1MV	100.0MV	1.500 V
72	4	360.1MV	100.0MV	1.500 V
72	10	360.1MV	100.0MV	1.500 V
72	11	360.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-690.0UA		-360.0UA
265	4	-700.0UA		-360.0UA
271	10	-690.0UA		-360.0UA
277	11	-690.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-3.400MA		-1.150MA
307	4	-3.400MA		-1.150MA
313	10	-3.400MA		-1.150MA
319	11	-3.400MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.220MA	360.0UA	
349	4	1.220MA	360.0UA	
355	10	1.210MA	360.0UA	
361	11	1.200MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	10.01MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.480MA		-900.0UA
265	4	-1.480MA		-900.0UA
271	10	-1.460MA		-900.0UA
277	11	-1.460MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3   2.640MA      900.0UA
    349   4   2.640MA      900.0UA
    355  10   2.570MA      900.0UA
    361  11   2.570MA      900.0UA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.98 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    223   3  20.02MV      50.00MV
    227   4  20.02MV      50.00MV
    231  10  20.02MV      50.00MV
    235  11  20.02MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    259   3  -5.700MA     -2.400MA
    265   4  -5.700MA     -2.400MA
    271  10  -5.600MA     -2.400MA
    277  11  -5.700MA     -2.400MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3   9.700MA      2.400MA
    349   4   9.700MA      2.400MA
    355  10   9.500MA      2.400MA
    361  11   9.500MA      2.400MA
-----

```

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -93.00NA    -1.000UA
414     2   -14.00NA    -1.000UA
418     5   -229.0NA    -1.000UA
422     6   -216.0NA    -1.000UA
426     8   -132.0NA    -1.000UA
430     9   -182.0NA    -1.000UA
434    12   -46.00NA    -1.000UA
438    13   -42.00NA    -1.000UA
  
```

```

-----
      IIH TEST
      VDD =      18
      IIH LIMIT 0.1UA @ 25C & -55C
      IIH LIMIT 1.0UA @ 125C
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
460     1   105.0NA    1.000UA
464     2   11.00NA    1.000UA
468     5   237.0NA    1.000UA
472     6   223.0NA    1.000UA
476     8   145.0NA    1.000UA
480     9   211.0NA    1.000UA
484    12   53.00NA    1.000UA
488    13   36.00NA    1.000UA
  
```

```

-----
      IDD TEST
      VDD =      5
      IDD LIMIT 7.500E-06
      VIN =      5
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14   16.00NA    7.500UA
  
```

```

-----
      IDD TEST
      VDD=      5
      IDD LIMIT 7.500E-06
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14   54.00NA    7.500UA
  
```

```

-----
      IDD TEST
      VDD =     10
      IDD LIMIT 15.00E-06
      VIN =     10
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
533    14   39.00NA    15.00UA
  
```

```

-----
      IDD TEST
      VDD=     10
      IDD LIMIT 15.00E-06
      VIN =      0
  
```

```

-----
INST #  PIN  MEASURED      LT          GT
549    14   69.00NA    15.00UA
  
```



```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14   58.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   82.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   79.00NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   93.00NA                150.0UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 9

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-480.0MV	-1.500 V	-100.0MV
62	2	-480.0MV	-1.500 V	-100.0MV
62	5	-480.0MV	-1.500 V	-100.0MV
62	6	-480.0MV	-1.500 V	-100.0MV
62	8	-480.0MV	-1.500 V	-100.0MV
62	9	-480.0MV	-1.500 V	-100.0MV
62	12	-480.0MV	-1.500 V	-100.0MV
62	13	-480.0MV	-1.500 V	-100.0MV
62	14	-320.1MV	-1.500 V	-100.0MV
72	3	360.1MV	100.0MV	1.500 V
72	4	360.1MV	100.0MV	1.500 V
72	10	360.1MV	100.0MV	1.500 V
72	11	360.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.980 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.970 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-690.0UA		-360.0UA
265	4	-700.0UA		-360.0UA
271	10	-690.0UA		-360.0UA
277	11	-680.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =     2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-3.400MA		-1.150MA
307	4	-3.400MA		-1.150MA
313	10	-3.400MA		-1.150MA
319	11	-3.400MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT  360.0E-06
VO=     400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.150MA	360.0UA	
349	4	1.160MA	360.0UA	
355	10	1.150MA	360.0UA	
361	11	1.150MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT  9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =     9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.480MA		-900.0UA
265	4	-1.480MA		-900.0UA
271	10	-1.460MA		-900.0UA
277	11	-1.460MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3   2.500MA      900.0UA
    349   4   2.520MA      900.0UA
    355  10   2.490MA      900.0UA
    361  11   2.480MA      900.0UA
-----

```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    194   3  14.98 V      14.95 V
    198   4  14.98 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
-----

```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    223   3  20.02MV      50.00MV
    227   4  20.02MV      50.00MV
    231  10  20.02MV      50.00MV
    235  11  10.01MV      50.00MV
-----

```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    259   3  -5.700MA     -2.400MA
    265   4  -5.700MA     -2.400MA
    271  10  -5.600MA     -2.400MA
    277  11  -5.600MA     -2.400MA
-----

```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
    343   3   9.300MA      2.400MA
    349   4   9.400MA      2.400MA
    355  10   9.300MA      2.400MA
    361  11   9.300MA      2.400MA
-----

```

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -89.00NA -1.000UA
414 2 -14.00NA -1.000UA
418 5 -221.0NA -1.000UA
422 6 -214.0NA -1.000UA
426 8 -133.0NA -1.000UA
430 9 -183.0NA -1.000UA
434 12 -48.00NA -1.000UA
438 13 -44.00NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 99.00NA 1.000UA
464 2 11.00NA 1.000UA
468 5 228.0NA 1.000UA
472 6 220.0NA 1.000UA
476 8 146.0NA 1.000UA
480 9 213.0NA 1.000UA
484 12 55.00NA 1.000UA
488 13 38.00NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 46.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 90.00NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 75.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 110.0NA 15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14   100.0NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   130.0NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   126.0NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   148.0NA                150.0UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 10

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-520.0MV	-1.500 V	-100.0MV
62	2	-520.0MV	-1.500 V	-100.0MV
62	5	-520.0MV	-1.500 V	-100.0MV
62	6	-520.0MV	-1.500 V	-100.0MV
62	8	-520.0MV	-1.500 V	-100.0MV
62	9	-520.0MV	-1.500 V	-100.0MV
62	12	-520.0MV	-1.500 V	-100.0MV
62	13	-520.0MV	-1.500 V	-100.0MV
62	14	-360.1MV	-1.500 V	-100.0MV
72	3	360.1MV	100.0MV	1.500 V
72	4	360.1MV	100.0MV	1.500 V
72	10	360.1MV	100.0MV	1.500 V
72	11	360.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.980 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-690.0UA		-360.0UA
265	4	-690.0UA		-360.0UA
271	10	-680.0UA		-360.0UA
277	11	-690.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-3.400MA		-1.150MA
307	4	-3.400MA		-1.150MA
313	10	-3.400MA		-1.150MA
319	11	-3.400MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT 360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.220MA	360.0UA	
349	4	1.220MA	360.0UA	
355	10	1.220MA	360.0UA	
361	11	1.210MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT 9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.980 V	9.950 V	
202	10	9.980 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	10.01MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.470MA		-900.0UA
265	4	-1.470MA		-900.0UA
271	10	-1.440MA		-900.0UA
277	11	-1.460MA		-900.0UA

IOL TEST
 VDD= 10
 IOL LIMIT 900.0E-06
 VO= 500.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	2.610MA	900.0UA	
349	4	2.600MA	900.0UA	
355	10	2.580MA	900.0UA	
361	11	2.570MA	900.0UA	

FUNCTIONAL TEST
 VDD= 15
 VIH= 11 VIL= 4

VOH TEST
 VDD= 15
 VOH LIMIT 14.95

INST #	PIN	MEASURED	LT	GT
194	3	14.98 V	14.95 V	
198	4	14.98 V	14.95 V	
202	10	14.98 V	14.95 V	
206	11	14.98 V	14.95 V	

VOL TEST
 VDD= 15
 VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	10.01MV		50.00MV
227	4	20.02MV		50.00MV
231	10	10.01MV		50.00MV
235	11	10.01MV		50.00MV

IOH TEST
 VDD= 15
 IOH LIMIT -2.400E-03
 VO = 13.50

INST #	PIN	MEASURED	LT	GT
259	3	-5.700MA		-2.400MA
265	4	-5.700MA		-2.400MA
271	10	-5.600MA		-2.400MA
277	11	-5.600MA		-2.400MA

IOL TEST
 VDD= 15
 IOL LIMIT 2.400E-03
 VO= 1.500

INST #	PIN	MEASURED	LT	GT
343	3	9.600MA	2.400MA	
349	4	9.600MA	2.400MA	
355	10	9.500MA	2.400MA	
361	11	9.500MA	2.400MA	

IIL TEST

VDD= 18
IIL LIMIT -0.1UA @25C & -55C
IIL LIMIT -1.0UA @ +125C

INST # PIN MEASURED LT GT
410 1 -90.00NA -1.000UA
414 2 -14.00NA -1.000UA
418 5 -221.0NA -1.000UA
422 6 -214.0NA -1.000UA
426 8 -134.0NA -1.000UA
430 9 -184.0NA -1.000UA
434 12 -48.00NA -1.000UA
438 13 -44.00NA -1.000UA

IIH TEST
VDD = 18
IIH LIMIT 0.1UA @ 25C & -55C
IIH LIMIT 1.0UA @ 125C

INST # PIN MEASURED LT GT
460 1 100.0NA 1.000UA
464 2 10.00NA 1.000UA
468 5 228.0NA 1.000UA
472 6 220.0NA 1.000UA
476 8 148.0NA 1.000UA
480 9 215.0NA 1.000UA
484 12 55.00NA 1.000UA
488 13 37.00NA 1.000UA

IDD TEST
VDD = 5
IDD LIMIT 7.500E-06
VIN = 5

INST # PIN MEASURED LT GT
533 14 32.00NA 7.500UA

IDD TEST
VDD= 5
IDD LIMIT 7.500E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 72.00NA 7.500UA

IDD TEST
VDD = 10
IDD LIMIT 15.00E-06
VIN = 10

INST # PIN MEASURED LT GT
533 14 63.00NA 15.00UA

IDD TEST
VDD= 10
IDD LIMIT 15.00E-06
VIN = 0

INST # PIN MEASURED LT GT
549 14 95.00NA 15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14   88.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   114.0NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   116.0NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   134.0NA                150.0UA

```

```

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

```

STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 11

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-520.0MV	-1.500 V	-100.0MV
62	2	-520.0MV	-1.500 V	-100.0MV
62	5	-520.0MV	-1.500 V	-100.0MV
62	6	-520.0MV	-1.500 V	-100.0MV
62	8	-520.0MV	-1.500 V	-100.0MV
62	9	-520.0MV	-1.500 V	-100.0MV
62	12	-520.0MV	-1.500 V	-100.0MV
62	13	-480.0MV	-1.500 V	-100.0MV
62	14	-360.1MV	-1.500 V	-100.0MV
72	3	360.1MV	100.0MV	1.500 V
72	4	360.1MV	100.0MV	1.500 V
72	10	360.1MV	100.0MV	1.500 V
72	11	360.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.970 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-700.0UA		-360.0UA
265	4	-690.0UA		-360.0UA
271	10	-690.0UA		-360.0UA
277	11	-690.0UA		-360.0UA

IOH2 TEST
VDD= 5
IOH LIMIT -1.150E-03
VO = 2.500

INST #	PIN	MEASURED	LT	GT
301	3	-3.400MA		-1.150MA
307	4	-3.400MA		-1.150MA
313	10	-3.400MA		-1.150MA
319	11	-3.400MA		-1.150MA

IOL TEST
VDD= 5
IOL LIMIT 360.0E-06
VO= 400.0E-03

INST #	PIN	MEASURED	LT	GT
343	3	1.240MA	360.0UA	
349	4	1.240MA	360.0UA	
355	10	1.220MA	360.0UA	
361	11	1.220MA	360.0UA	

FUNCTIONAL TEST
VDD= 10
VIH= 7 VIL= 3

VOH TEST
VDD= 10
VOH LIMIT 9.950

INST #	PIN	MEASURED	LT	GT
194	3	9.970 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

VOL TEST
VDD= 10
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

IOH TEST
VDD= 10
IOH LIMIT -900.0E-06
VO = 9.500

INST #	PIN	MEASURED	LT	GT
259	3	-1.480MA		-900.0UA
265	4	-1.470MA		-900.0UA
271	10	-1.470MA		-900.0UA
277	11	-1.470MA		-900.0UA

IOL TEST
 VDD= 10
 IOL LIMIT 900.0E-06
 VO= 500.0E-03

```

-----
INST #  PIN  MEASURED      LT      GT
    343   3   2.650MA      900.0UA
    349   4   2.650MA      900.0UA
    355  10   2.610MA      900.0UA
    361  11   2.600MA      900.0UA
  
```

```

-----
FUNCTIONAL TEST
VDD= 15
VIH= 11      VIL= 4
-----

```

```

-----
VOH TEST
VDD= 15
VOH LIMIT 14.95
-----

```

```

-----
INST #  PIN  MEASURED      LT      GT
    194   3  14.98 V      14.95 V
    198   4  14.98 V      14.95 V
    202  10  14.98 V      14.95 V
    206  11  14.98 V      14.95 V
  
```

```

-----
VOL TEST
VDD= 15
VOL LIMIT 50MV
-----

```

```

-----
INST #  PIN  MEASURED      LT      GT
    223   3  10.01MV      50.00MV
    227   4  30.03MV      50.00MV
    231  10  20.02MV      50.00MV
    235  11  20.02MV      50.00MV
  
```

```

-----
IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50
-----

```

```

-----
INST #  PIN  MEASURED      LT      GT
    259   3  -5.700MA     -2.400MA
    265   4  -5.700MA     -2.400MA
    271  10  -5.700MA     -2.400MA
    277  11  -5.700MA     -2.400MA
  
```

```

-----
IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500
-----

```

```

-----
INST #  PIN  MEASURED      LT      GT
    343   3   9.800MA      2.400MA
    349   4   9.800MA      2.400MA
    355  10   9.600MA      2.400MA
    361  11   9.700MA      2.400MA
  
```

```

-----
IIL TEST
-----

```

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

```

-----
INST #  PIN  MEASURED      LT          GT
410     1   -87.00NA    -1.000UA
414     2   -13.00NA    -1.000UA
418     5   -215.0NA    -1.000UA
422     6   -208.0NA    -1.000UA
426     8   -134.0NA    -1.000UA
430     9   -183.0NA    -1.000UA
434    12   -46.00NA    -1.000UA
438    13   -43.00NA    -1.000UA
  
```

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

```

-----
INST #  PIN  MEASURED      LT          GT
460     1   98.00NA     1.000UA
464     2   10.00NA     1.000UA
468     5   221.0NA     1.000UA
472     6   213.0NA     1.000UA
476     8   147.0NA     1.000UA
480     9   214.0NA     1.000UA
484    12   54.00NA     1.000UA
488    13   37.00NA     1.000UA
  
```

IDD TEST
 VDD = 5
 IDD LIMIT 7.500E-06
 VIN = 5

```

-----
INST #  PIN  MEASURED      LT          GT
533    14   10.00NA     7.500UA
  
```

IDD TEST
 VDD= 5
 IDD LIMIT 7.500E-06
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14   48.00NA     7.500UA
  
```

IDD TEST
 VDD = 10
 IDD LIMIT 15.00E-06
 VIN = 10

```

-----
INST #  PIN  MEASURED      LT          GT
533    14   34.00NA     15.00UA
  
```

IDD TEST
 VDD= 10
 IDD LIMIT 15.00E-06
 VIN = 0

```

-----
INST #  PIN  MEASURED      LT          GT
549    14   62.00NA     15.00UA
  
```

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14   54.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   76.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   77.00NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   89.00NA                150.0UA

```

```

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

```


STAT1 09/04/11 06:29
TEST PROGRAM 4081B S/N 12

DDS-101-04-A PN CD4081B ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
62	1	-480.0MV	-1.500 V	-100.0MV
62	2	-480.0MV	-1.500 V	-100.0MV
62	5	-480.0MV	-1.500 V	-100.0MV
62	6	-480.0MV	-1.500 V	-100.0MV
62	8	-480.0MV	-1.500 V	-100.0MV
62	9	-480.0MV	-1.500 V	-100.0MV
62	12	-480.0MV	-1.500 V	-100.0MV
62	13	-480.0MV	-1.500 V	-100.0MV
62	14	-320.1MV	-1.500 V	-100.0MV
72	3	360.1MV	100.0MV	1.500 V
72	4	360.1MV	100.0MV	1.500 V
72	10	360.1MV	100.0MV	1.500 V
72	11	360.1MV	100.0MV	1.500 V

FUNCTIONAL TEST
VDD= 5
VIH= 3.500 VIL= 1.500

VOH TEST
VDD= 5
VOH LIMIT 4.950

INST #	PIN	MEASURED	LT	GT
194	3	4.970 V	4.950 V	
198	4	4.970 V	4.950 V	
202	10	4.980 V	4.950 V	
206	11	4.980 V	4.950 V	

VOL TEST
VDD= 5
VOL LIMIT 50MV

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	30.03MV		50.00MV

IOH TEST
VDD= 5
IOH LIMIT -360.0E-06
VO = 4.600

INST #	PIN	MEASURED	LT	GT
259	3	-680.0UA		-360.0UA
265	4	-680.0UA		-360.0UA
271	10	-680.0UA		-360.0UA
277	11	-680.0UA		-360.0UA

```

-----
IOH2 TEST
VDD=      5
IOH LIMIT -1.150E-03
VO =      2.500
-----

```

INST #	PIN	MEASURED	LT	GT
301	3	-3.400MA		-1.150MA
307	4	-3.400MA		-1.150MA
313	10	-3.300MA		-1.150MA
319	11	-3.300MA		-1.150MA

```

-----
IOL TEST
VDD=      5
IOL LIMIT 360.0E-06
VO=      400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
343	3	1.210MA	360.0UA	
349	4	1.200MA	360.0UA	
355	10	1.200MA	360.0UA	
361	11	1.190MA	360.0UA	

```

-----
FUNCTIONAL TEST
VDD=      10
VIH=      7      VIL=      3
-----

```

```

-----
VOH TEST
VDD=      10
VOH LIMIT 9.950
-----

```

INST #	PIN	MEASURED	LT	GT
194	3	9.980 V	9.950 V	
198	4	9.970 V	9.950 V	
202	10	9.970 V	9.950 V	
206	11	9.970 V	9.950 V	

```

-----
VOL TEST
VDD=      10
VOL LIMIT 50MV
-----

```

INST #	PIN	MEASURED	LT	GT
223	3	20.02MV		50.00MV
227	4	20.02MV		50.00MV
231	10	20.02MV		50.00MV
235	11	20.02MV		50.00MV

```

-----
IOH TEST
VDD=      10
IOH LIMIT -900.0E-06
VO =      9.500
-----

```

INST #	PIN	MEASURED	LT	GT
259	3	-1.460MA		-900.0UA
265	4	-1.440MA		-900.0UA
271	10	-1.440MA		-900.0UA
277	11	-1.450MA		-900.0UA

IOL TEST
VDD= 10
IOL LIMIT 900.0E-06
VO= 500.0E-03

INST # PIN MEASURED LT GT
343 3 2.580MA 900.0UA
349 4 2.560MA 900.0UA
355 10 2.550MA 900.0UA
361 11 2.560MA 900.0UA

FUNCTIONAL TEST
VDD= 15
VIH= 11 VIL= 4

VOH TEST
VDD= 15
VOH LIMIT 14.95

INST # PIN MEASURED LT GT
194 3 14.98 V 14.95 V
198 4 14.98 V 14.95 V
202 10 14.98 V 14.95 V
206 11 14.98 V 14.95 V

VOL TEST
VDD= 15
VOL LIMIT 50MV

INST # PIN MEASURED LT GT
223 3 20.02MV 50.00MV
227 4 20.02MV 50.00MV
231 10 20.02MV 50.00MV
235 11 20.02MV 50.00MV

IOH TEST
VDD= 15
IOH LIMIT -2.400E-03
VO = 13.50

INST # PIN MEASURED LT GT
259 3 -5.600MA -2.400MA
265 4 -5.600MA -2.400MA
271 10 -5.500MA -2.400MA
277 11 -5.600MA -2.400MA

IOL TEST
VDD= 15
IOL LIMIT 2.400E-03
VO= 1.500

INST # PIN MEASURED LT GT
343 3 9.500MA 2.400MA
349 4 9.500MA 2.400MA
355 10 9.400MA 2.400MA
361 11 9.400MA 2.400MA

IIL TEST

VDD= 18
 IIL LIMIT -0.1UA @25C & -55C
 IIL LIMIT -1.0UA @ +125C

INST #	PIN	MEASURED	LT	GT
410	1	-85.00NA	-1.000UA	
414	2	-14.00NA	-1.000UA	
418	5	-213.0NA	-1.000UA	
422	6	-205.0NA	-1.000UA	
426	8	-135.0NA	-1.000UA	
430	9	-185.0NA	-1.000UA	
434	12	-48.00NA	-1.000UA	
438	13	-44.00NA	-1.000UA	

IIH TEST
 VDD = 18
 IIH LIMIT 0.1UA @ 25C & -55C
 IIH LIMIT 1.0UA @ 125C

INST #	PIN	MEASURED	LT	GT
460	1	94.00NA		1.000UA
464	2	11.00NA		1.000UA
468	5	220.0NA		1.000UA
472	6	212.0NA		1.000UA
476	8	149.0NA		1.000UA
480	9	217.0NA		1.000UA
484	12	55.00NA		1.000UA
488	13	38.00NA		1.000UA

IDD TEST
 VDD = 5
 IDD LIMIT 7.500E-06
 VIN = 5

INST #	PIN	MEASURED	LT	GT
533	14	40.00NA		7.500UA

IDD TEST
 VDD= 5
 IDD LIMIT 7.500E-06
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	82.00NA		7.500UA

IDD TEST
 VDD = 10
 IDD LIMIT 15.00E-06
 VIN = 10

INST #	PIN	MEASURED	LT	GT
533	14	71.00NA		15.00UA

IDD TEST
 VDD= 10
 IDD LIMIT 15.00E-06
 VIN = 0

INST #	PIN	MEASURED	LT	GT
549	14	106.0NA		15.00UA

```

-----
      IDD TEST
      VDD =      15
      IDD LIMIT  30.00E-06
      VIN =      15
-----
INST #  PIN  MEASURED      LT      GT
  533   14   97.00NA                30.00UA

```

```

-----
      IDD TEST
      VDD=      15
      IDD LIMIT  30.00E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   127.0NA                30.00UA

```

```

-----
      IDD TEST
      VDD =      20
      IDD LIMIT  150.0E-06
      VIN =      20
-----
INST #  PIN  MEASURED      LT      GT
  533   14   125.0NA                150.0UA

```

```

-----
      IDD TEST
      VDD=      20
      IDD LIMIT  150.0E-06
      VIN =      0
-----
INST #  PIN  MEASURED      LT      GT
  549   14   147.0NA                150.0UA

```

```

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-101-04-W

Date: May 29, 2018

Part Number: CD4081B

Part Type: CMOS LOGIC MICROCIRCUIT

Lot: Lot# 4454 D/C: 1810 WFR# 23

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-101-04-W

Summary

Eight (8) CMOS Logic Microcircuit P/N: CD4081B 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-101-04-W
SEM EXAMINATION

TTL Job No. DDS-101-04-W	Part Number CD4081B	Part Type CMOS Logic Microcircuit	Date May 2, 2018
Lot Date Code: WFR# 23 Lot# 4454 D/C: 1810	Sample Qty. 8	Serial Numbers 1 - 8	Test Specifications Mil-Std-883 Method 2018.6
Misc. ID No.	Qty. Accept 8	Qty. Reject 0	Qty. Suspect 0

Notes:

S/N	Investigation Findings / Comments	A/R/S
1	No Anomalies	A
2	No Anomalies	A
3	No Anomalies	A
4	No Anomalies	A
5	No Anomalies	A
6	No Anomalies	A
7	No Anomalies	A
8	No Anomalies	A

Each sample was inspected for the general metallization condition at a magnification between 1,000 X and 6,000 X over 25% of the total metallization (unless specified differently). Each sample was inspected from four (4) viewing directions at a magnification between 5,000 X and 20,000 X

Inspection required Yes: X No: Devices constructed with expanded Metallization Yes: X No:

Sample Glassivated Yes: X No: Dual Level Metallization Yes: No: X

Glassivation Removed Using: PLASMA ETCHING

Beam accelerating voltage 10kV to 20kV Viewing angle 45 deg



Technician Stamp:

TANDEX TEST LABS TTL Job # DDS-101-04-W

Photodocumentation

TANDEX TEST LABS TTL Job # DDS-101-04-W

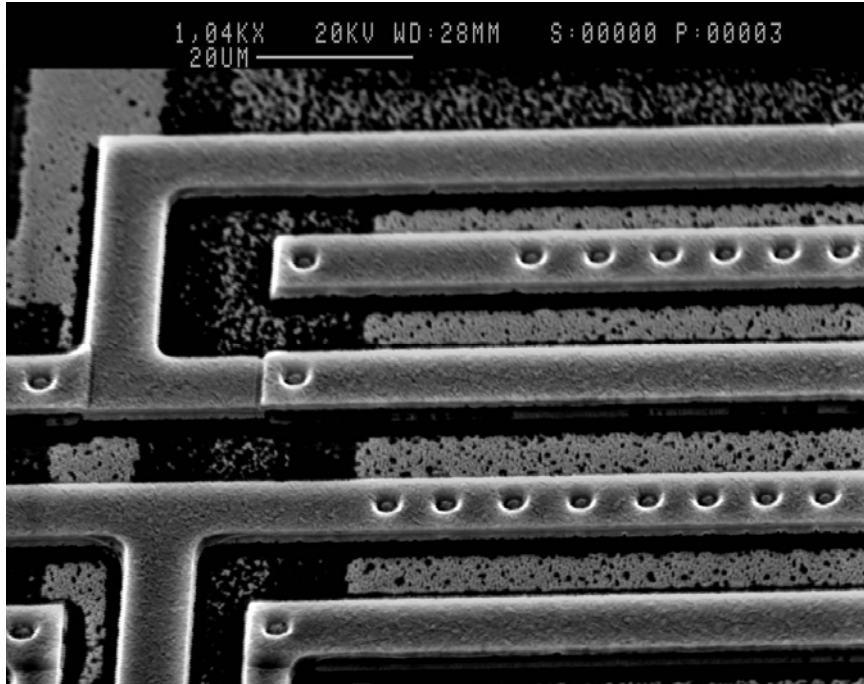


Fig: 1

Mag: 1,040X

S/N: 5

Description: SEM photograph of general metallization.

Note: Minor glass remaining on the die surface.

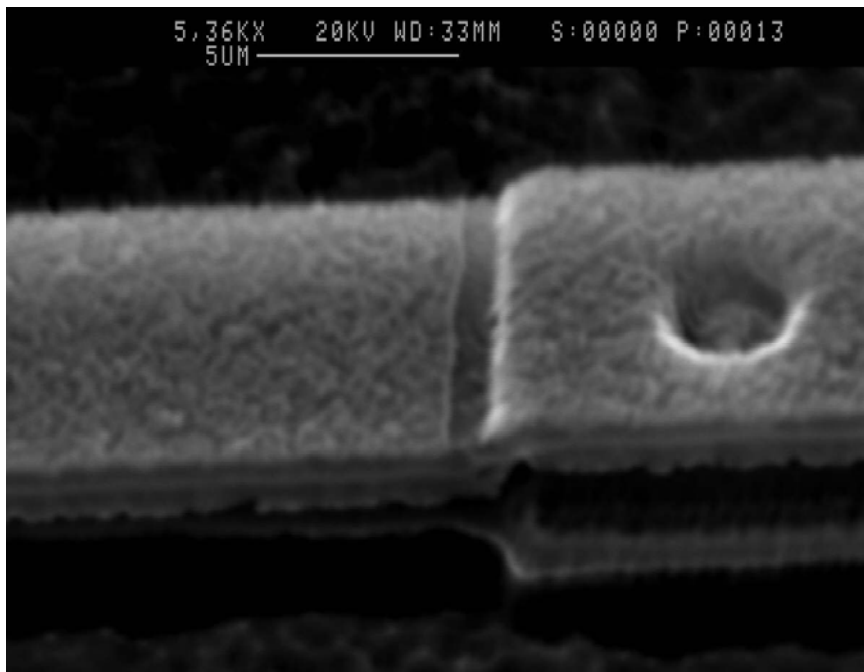


Fig: 2

Mag: 5,360X

S/N: 5

Description: SEM photograph of metallization typical step.

TANDEX TEST LABS TTL Job # DDS-101-04-W

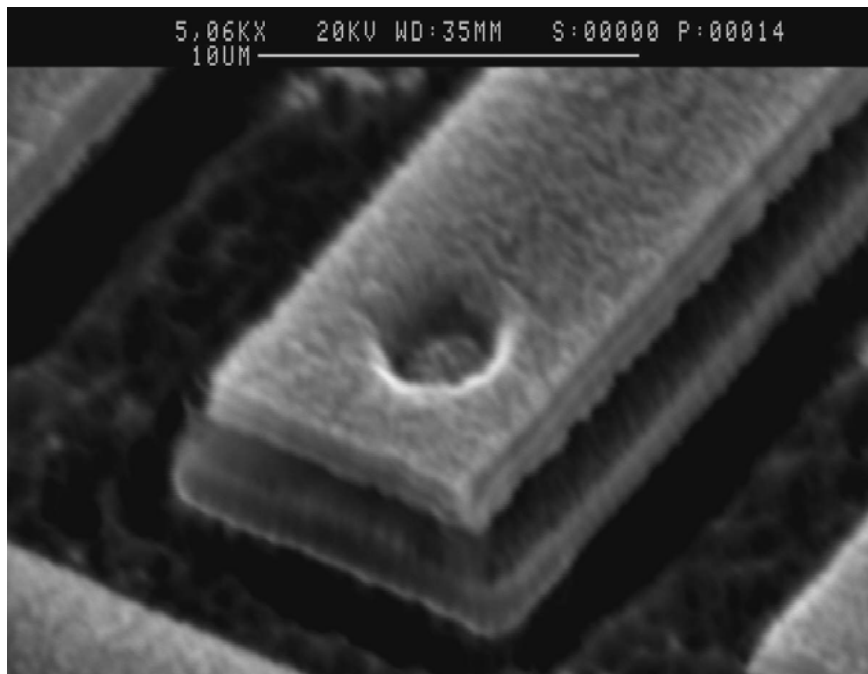


Fig: 3

Mag: 5,060X

S/N: 5

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: May 29, 2018
TEST REPORT:	DDS-101-04-W	QUANTITY REQUIRED: 8
P.O. NUMBER:	SS139	QUANTITY PROCESSED: 8
DESCRIPTION:	CMOS LOGIC MICROCIRCUIT	QUANTITY PASSED: 8
PART NUMBER(S):	CD4081B	QUANTITY FAILED: 0
MFG PART NUMBER	CD4081B	QUANTITY SHIPPING: 8
LOT / DATE CODE:	LOT# 4454 WFR# 23 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



Deborah M. Gorham
QUALITY ASSURANCE