Reliability Report – LM158

Low power, Dual Operational Amplifier

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

CONTENTS:

- Certificate of Conformance
- Process Flow Chart + Mechanical Test Results
- Pre Burn-In Electrical Test Results at -55°C, 25°C, 125°C
- Post Burn-In Electrical Test Results at -55°C, 25°C, 125°C
- Scanning Electron Microscopy (SEM) analysis.

Certificate of Conformance

TANDEX TEST LABS, INC.
15849 Business Center. Dr., Irwindale CA. 91706 U.S.A.
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: September 11, 2018	
TEST REPORT:	***DDS-101-19-A***	QUANTITY RECEIVED:	***30 DIE***
P.O. NUMBER:	***SS139***	QUANTITY REQUIRED:	*10/5/8*
DESCRIPTION:	***AMPLIFIER MICROCIRCUIT***	QUANTITY PROCESSED:	*17*
PART NUMBER(S):	***LM158***	QUANTITY PASSED:	*17*
P/N: AS RECEIVED / MFG. PART NUMBER:	***LM158***	QUANTITY FAILED:	*0*
LOT / DATE CODE:	***1810 LOT# 20395 WF48***		
MANUFACTURE: CAGE CODE:	***SILICON SUPPLIES***	***QUANTITY SHIPPING:***	***17****
		INCLUDES: 10 PROCESS ACCEPT *2 SPARES* *5 BOND PULL SAMPLES*	
TANDEX CAGE CODE:	***1FE65***	***8 DIE TRANSFERRED TO DDS-101-19-W FOR SEM.*	

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

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

Jessica Iraheta
QUALITY ASSURANCE

QMF 30

Process Flow Chart + Mechanical Test Results

TANDEX TEST LABS INC.

QMF22B

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

PROCESS FLOW CHART

FLOW NUMBER: DDS-101-19-A REV. 0

CUSTOMER: DIE DEVICES
P.O. NUMBER: SS139
PART NUMBER: LM158
P/N AS RECEIVED: LM158
PART TYPE: AMPLIFIER MICROCIRCUIT
DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
DUE DATE: 7/12/18
JOB NUMBER: DDS-101-19-A
LDC AS RECEIVED: 1810 LOT# 20395 WF48
QUANTITY RECEIVED : 30 (DIE)
QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES
QUANTITY REQUIRED : 10/5/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.
01	FLO	P-1015 P-1223	FLOW PREPARED BY: LSS . ON: 3/29/18 . CONTRACTUAL AGREEMENT REVIEW Y / N / NOT SPECIFIED ☐ ☐ ☑ Q-CLAUSES ☐ ☑ ☐ DPAS ☐ ☑ ☐ DFAR ☐ ☑ ☐ ITAR ☐ ☐ OTHER _____ SPECIFIED					QA TANDEX 5
02	QCI		TANDEX QUALITY CONTROL INSPECTION. FLOW APPROVED BY: JMI . ON: 3/29/18 .					QA TANDEX 7
03	RCV	P-1070	VERIFY PART NUMBER. ENTER INTO INCOMING LOG. X CUSTOMER COUNT	30			3/29/18	QA TANDEX 5
04	VIS	P-1041	PERFORM 100% DIE VISUAL PER MIL-STD-883 METHOD 2010 AND MIL-PRF-38534 PARA C.3.3.2. ESD MAT DUE DATE: 6/27/18. EQUIPMENT USED: Olympus . ASSET #: 20091 .	30	Ø	30	6/1/18	TTL 4
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	Ø	10+2	6/06/18	TTL 27
			EUTETIC Lot#: 149555 Exp. Date: NA BOND PULL	5	Ø	5	6/06/18	TTL 27
			ESD MAT DUE DATE: 6/27/18. * **Package Type: 8 PIN DIP** SEM TRANSFER TO DDS-101-19-W MIL-STD-883 METHOD 2018	8	9	8	6/1/18	TTL 4
		P-4010	WIRE BOND: Utilize 1 Mil Au Wire (.001) 1 Mil Au bonder Mech-el Asset #: 20060 Gold Wire: JH QA TANDEX 7 Lot#: 900301196D Exp. Date: 3/16/2020	17	Ø	17	6/06/18	TTL 27

TANDEX TEST LABS INC.

QMF22B

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

PROCESS FLOW CHART

FLOW NUMBER: DDS-101-19-A REV. 0

CUSTOMER: DIE DEVICES
P.O. NUMBER: SS139
PART NUMBER: LM158
P/N AS RECEIVED: LM158
PART TYPE: AMPLIFIER MICROCIRCUIT
DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
DUE DATE: 7/12/18
JOB NUMBER: DDS-101-19-A
LDC AS RECEIVED: 1810 LOT# 20395 WF48
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. ESD MAT DUE DATE: 6/27/18. EQUIPMENT USED: Bausch-Lomb . ASSET #: 30772	17	Ø	17	6/06/18	TTL 27
07	SEAL		SEAL DEVICES VACUUM BAKE: Pre Seal Bake Time: Temp: 125 Time: ~~8:50~~ 24 hrs LA Actual time in: 8:50 AM 6/06/18 Actual time out: 9:05 am 6/07/18 FURNACE 1823 LDC Actual temp: 125 °C STAMP TTL 30 ESD MAT DUE DATE: 6/27/18.	10+2	Ø	10+2	6/07/18	TTL 30
08	ELEC		PERFORM 100% ELECTRICAL VERIFICATION TEST PER MFG DATA SHEET AND MIL-PRF-38534 @ AMBIENT OPERATING TEMPERATURE GO / NO GO +25°C EQUIPMENT USED: LTS 2020 . ASSET#: 20013 TEST FIXTURE: #14 SOFTWARE ID: LM158 REV N/A ESD MAT DUE DATE: 6/27/18.	10+2	Ø	10+2	6/8/18	TTL 13
09	TEMP		PERFORM TEMPERATURE CYCLING PER MIL-STD-883 METHOD 1010 CONDITION C & MIL-PRF-38534 C.3.3.3. TEN (10) CYCLES TA = -65°C +0/-10 to +150°C +15/-0 10 MINUTES AT EXTREMES DATE IN TIME IN DATE OUT TIME OUT EQUIPMENT USED: TENNEY . ASSET #: 30369 EQUIPMENT USED: OMEGA HH309A . ASSET #: 31662	10+2 10+2	Ø Ø	10+2 10+2	6/8/18 11:57 A.M. 6/11/18 5:05 A.M.	TTL 48 TTL 48
10	ACCE		PERFORM CONSTANT ACCELERATION PER MIL-PRF-38534 MIL-STD-883 METHOD 2001. Y1 DIRECTION ONLY @ 3000 G's (min) EQUIPMENT USED: TRIO Tech . ASSET #: 30260 ESD MAT DUE DATE: 6/27/18	10+2	Ø	10+2	6/12/18	TTL 29
11	SER		SERIALIZE S/N: ~~01-10~~ 1-12 KG 6/12/18 ESD MAT DUE DATE: 6/27/18.	10+2	Ø	10+2	6/14/18	TTL 19

TANDEX TEST LABS INC.

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

QMF22B

PROCESS FLOW CHART

FLOW NUMBER: DDS-101-19-A REV. 0

CUSTOMER: DIE DEVICES
P.O. NUMBER: SS139
PART NUMBER: LM158
P/N AS RECEIVED: LM158
PART TYPE: AMPLIFIER MICROCIRCUIT
DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
DUE DATE: 7/12/18
JOB NUMBER: DDS-101-19-A
LDC AS RECEIVED: 1810 LOT# 20395 WF48
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. ESD MAT DUE DATE: 7/27/18. STATIC AND FUNCTIONAL TESTS +25°C - 55°C +125°C EQUIPMENT USED: LTS 2020 ASSET#: 20013 TEST FIXTURE: #14 SOFTWARE ID: $LM158 REV N/A TEMPERATURE SOAK 10 SEC.	12 12 12	0 0 0	12 12 12	7/9/18 7/9/18 7/10/18	TTL 27 TTL 27 TTL 27
13	BI		PERFORM BURN IN PER BURN IN CIRCUIT PER FIGURE 1 OF DWG# 1026-16668, AND MIL-STD 883 METHOD 1015. ESD MAT DUE DATE: 7/27/18. TA = 125°C (min) T = 240 HRS (min) DATE IN: TIME IN: BURN-IN BOARD # / DESC: 31269 BURN-IN OVEN #: 21 DATE OUT: TIME OUT:	12 12	0 0	12 12	7/16/18 6:00AM 7/26/18 6:00AM	TTL 13 TTL 13
14	ELEC		PERFORM POST BURN IN ELECTRICAL VERIFICATION PER MFG DATA SHEET AND MIL-PRF-38534 C.3.3.4.3 @ AMBIENT, HIGH AND LOW OPERATING TEMPERATURES. READ AND RECORD. ESD MAT DUE DATE: 7/27/18. STATIC AND FUNCTIONAL TESTS +25°C - 55°C +125°C TEST +25°C WITHIN 96 HOURS EQUIPMENT USED: LTS 2020 ASSET#: 20013 TEST FIXTURE: #14 SOFTWARE ID: $LM158 REV N/A TEMPERATURE SOAK 10 SEC.	12 12 12	0 0 0	12 12 12	7/26/18 7/26/18 7/26/18	TTL 13 TTL 13 TTL 13
15	ER		PER PO REQUIREMENTS: REVIEW AT POST 240 HR. BURN-IN EMAIL: ben.white@diedevices.com POST 240 HR BURN-IN ELECTRICAL TEST DATA. HOLD FOR APPROVAL TO PROCEED DATE SENT: 7/26/18				7/27/18	QA TANDEX 5

TANDEX TEST LABS

BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-19-A

PART NUMBER LM158

DATE CODE 1810 LOT# 20395WF48

BURN-IN TIME 240hrs Min

θJC= N/A

TEMPERATURE TA = +125°C Min

TEMP. METER # 31368

VOLTAGE VCC = +15VDC, VEE = -5VDC

VOLT METER# 31223

POWER SUPPLY# 31110

BOARD# 31269

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
7/16/18	6:00AM	VCC=+15V VEE=-15V	ICC=.08A IEE=.08A	127.6°C	CM	
7/17/18	6:15AM	VCC=+15V VEE=-15V	ICC=.08A IEE=.08A	128.0°C	CM	
7/18/18	6:00AM	VCC=+15V VEE=-15V	ICC=.08A IEE=.08A	128.2°C	CM	
7/19/18	NO	DATA	TAKEN			
7/20/18	NO	DATA	TAKEN			
7/23/18	NO	DATA	TAKEN			
7/24/18	NO	DATA	TAKEN			
7/25/18	7:25AM	VCC=+15V VEE=-15V	ICC=.08A IEE=.08A	126.1°C	CM	
7/26/18	6:00AM	VCC=+15V VEE=-15V	ICC=.08A IEE=.08A	126.4°C	CM	

TANDEX TEST LABS INC.

QMF22B

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

PROCESS FLOW CHART

FLOW NUMBER: DDS-101-19-A REV. 0

CUSTOMER: DIE DEVICES
P.O. NUMBER: SS139
PART NUMBER: LM158
P/N AS RECEIVED: LM158
PART TYPE: AMPLIFIER MICROCIRCUIT
DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
DUE DATE: 7/12/18
JOB NUMBER: DDS-101-19-A
LDC AS RECEIVED: 1810 LOT# 20395 WF48
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: / TIME IN: DATE OUT: / TIME OUT: BURN-IN BOARD # / DESC: 31269 BURN-IN OVEN #: 21	12 12	0 0	12 12	7/30/18 6:00AM 9/10/18 6:00AM	TTL 13 TTL 13
	ESD MAT DUE DATE: 9/27/18							
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 TEST +25°C WITHIN 96 HOURS +25°C - 55°C +125°C EQUIPMENT USED: LTS 2020 ASSET#: 20013 TEST FIXTURE: 14 SOFTWARE ID: $LM158 REV N/A TEMPERATURE SOAK 10 SEC.	12 12 12	0 0 0	12 12 12	9/10/18 9/10/18 9/10/18	TTL 35 TTL 35 TTL 35
	ESD MAT DUE DATE: 9/27/18							
18	DBP		PERFORM WIRE BOND PULL PER MIL-STD-883 METHOD 2011. & MIL-PRF-38534 C.3.3.3. C3.3.5. TEN (10) WIRES. ***DO NOT USE ELECTRICAL TEST SAMPLES*** EQUIPMENT USED: DAGE ASSET #: 30785	5	ϕ	5	8/24/18	TTL 4
19	SEM		PULLED 8 DEVICES AT SEQ. 05 AND TRANSFERRED TO: DDS-101-19-W	8	0	8	6/1/18	#4 QA TANDEX

TANDEX TEST LABS
BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-19-A

PART NUMBER LM158

DATE CODE 1810 ~~LOT #~~ 20395 WF48

BURN-IN TIME 1000hrs Min

θJC= N/A

TEMPERATURE T_A = +125°C Min

TEMP. METER # 31368

VOLTAGE VCC = +15 VDC, VEE = -15 VDC

VOLT METER# 31223

POWER SUPPLY# 31110

BOARD# 31269

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
7/30/18	6:00AM	VCC=+15mL VEE=-15mL	ICC=.08A IEE=.08A	126.6°C	CM	
7/31/18	6:55AM	VCC=+15mL VEE=-15mL	ICC=.08A IEE=.08A	127.6°C	CM	
8/1/18	6:20AM	VCC=+15mL VEE=-15mL	ICC=.08A IEE=.08A	128.8°C	CM	
8/2/18	11:10AM	VCC=+15mL VEE=-15mL	ICC=.08A IEE=.08A	127.3°C	CM	
8/3/18	6:45AM	VCC=+15mL VEE=-15mL	ICC=.08A IEE=.08A	127.3°C	CM	
8/6/18	6:00AM	VCC=+15mL VEE=-15mL	ICC=.08A IEE=.08A	126.1°C	CM	
8/7/18	8:35AM	VCC=+15mL VEE=-15mL	ICC=.08A IEE=.08A	125.5°C	CM	
8/8/18	6:00AM	VCC=+15mL VEE=-15mL	ICC=.08A IEE=.08A	126.7°C	CM	
8/9/18	6:30AM	VCC=+15mL VEE=-15mL	ICC=.08A IEE=.08A	126.0°C	CM	
8/10/18	6:45AM	VCC=+15mL VEE=-15mL	ICC=.08A IEE=.08A	125.7°C	CM	

TANDEX TEST LABS
BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-19-A

PART NUMBER LM158

DATE CODE 1810 ~~LOT#~~ 20395 WF48

BURN-IN TIME 1000hrs Min

θJC= N/A

TEMPERATURE T_A = +125°C Min

TEMP. METER # 31368

VOLTAGE VCC = +15 VDC, VEE = -15 VDC

VOLT METER# 31223

POWER SUPPLY# 31110

BOARD# 31269

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
8/13/18	5:40AM	VCC=+15M VEE=-15M	ICC=.08A IEE=.08A	125.6°C	CM	
8/14/18	NO	DATA	TAKEN			
8/15/18	NO	DATA	TAKEN			
8/16/18	6:05AM	VCC=+15M VEE=-15M	ICC=.08A IEE=.08A	126.1°C	CM	
8/17/18	9:35AM	VCC=+15M VEE=-15M	ICC=.08A IEE=.08A	126.1°C	CM	
8/20/18	6:00AM	VCC=+15M VEE=-15M	ICC=.08A IEE=.08A	125.4°C	CM	
8/21/18	7:05AM	VCC=+15M VEE=-15M	ICC=.08A IEE=.08A	125.5°C	CM	
8/22/18	9:55AM	VCC=+15M VEE=-15M	ICC=.08A IEE=.08A	125.9°C	CM	
8/23/18	7:00AM	VCC=+15M VEE=-15M	ICC=.08A IEE=.08A	125.3°C	CM	
8/24/18	6:45AM	VCC=+15M VEE=-15M	ICC=.08A IEE=.08A	125.6°C	CM	

TANDEX TEST LABS
BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-19-A

PART NUMBER LM158

DATE CODE 1810 ~~LOT #~~ 20395 WF48

BURN-IN TIME 1000hrs Min

θJC= N/A

TEMPERATURE T_A = +125°C Min

TEMP. METER # 31368

VOLTAGE VCC = +15 VDC, VEE = -15 VDC

VOLT METER# 31223

POWER SUPPLY# 31110

BOARD# 31269

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
8/27/18	5:30AM	VCC=+15VDC VEE=-15VDC	ICC=.08A IEE=.08A	125.8°C	CM	
8/28/18	10:20AM	VCC=+15VDC VEE=-15VDC	ICC=.08A IEE=.08A	125.9°C	CM	
8/29/18	6:15AM	VCC=+15VDC VEE=-15VDC	ICC=.08A IEE=.08A	126.4°C	CM	
8/30/18	6:00AM	VCC=+15VDC VEE=-15VDC	ICC=.08A IEE=.08A	125.6°C	CM	
8/31/18	5:30AM	VCC=+15VDC VEE=-15VDC	ICC=.08A IEE=.08A	126.3°C	CM	
9/3/18	NO	DATA	TAKEN			
9/4/18	6:00AM	VCC=+15VDC VEE=-15VDC	ICC=.08A IEE=.08A	126.8°C	CM	
9/5/18	7:30AM	VCC=+15VDC VEE=-15VDC	ICC=.08A IEE=.08A	125.5°C	CM	
9/6/18	10:00AM	VCC=+15VDC VEE=-15VDC	ICC=.08A IEE=.08A	126.0°C	CM	

TANDEX TEST LABS
BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-19-A

PART NUMBER LM158

DATE CODE 1810 ~~LOT #~~ 20395 WF48

BURN-IN TIME 1000hrs Min

θJC= N/A

TEMPERATURE T_A = +125°C Min

TEMP. METER # 31368

VOLTAGE VCC = +15 VDC
VEE = -15 VDC

VOLT METER# 31223

POWER SUPPLY# 31110

BOARD# 31269

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
9/7/18	5:50AM	VCC=+15VDC VEE=-15VDC	ICC=.08A IEE=.08A	126.6°C	CM	
9/8/18	NO	DATA	TAKEN			
9/9/18	NO	DATA	TAKEN			
9/10/18	6:00AM	VCC=+15VDC VEE=-15VDC	ICC=.08A IEE=.08A	126.7°C	CM	

TANDEX TEST LABS TTL# DDS-101-19-A
BOND PULL
BOND STRENGTH TESTING

TTL Job No.	Part Number	Part Type	Date
DDS-101-19-A	LM158	AMPLIFIER MICROCIRCUIT	August 24, 2018
Lot Date Code LOT# 20395 W# 48 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	PACKAGE/POST	BOND TYPE
Au	Au	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	3.5	G	1	5.0	G	1	5.0	G	1	4.5	G	1	3.0	G	1		
2	5.0	G	2	5.0	G	2	4.5	G	2	4.5	G	2	4.0	G	2		
3			3			3			3			3			3		
4			4			4			4			4			4		
5			5			5			5			5			5		

CODE INDEX

A. NO BREAKS UP TO _____gms.

B. BOND LIFTS FROM DIE.

C. BOND LIFTS FROM POST.

D. WIRE BREAKS AT SUBSTRATE/HEAL.

E. BOND REMOVES UNDERLYING METALLIZATION.

F. NO CONNECTION.

G. WIRE BREAKS AT DIE/HEAL.

H. WIRE BREAKS AT POST/HEAL.

J. WIRE BREAKS AT SPAN.

X. BOND DAMAGE PRIOR TO TESTING.

TTL 4

TECHNICIAN STAMP:

TANDEX TEST LABS INC.

QMF22B

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

PROCESS FLOW CHART

FLOW NUMBER: DDS-101-19-A REV. 0

CUSTOMER: DIE DEVICES
P.O. NUMBER: SS139
PART NUMBER: LM158
P/N AS RECEIVED: LM158
PART TYPE: AMPLIFIER MICROCIRCUIT
DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
DUE DATE: 7/12/18
JOB NUMBER: DDS-101-19-A
LDC AS RECEIVED: 1810 LOT# 20395 WF48
QUANTITY RECEIVED : 30 (DIE)
QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES
QUANTITY REQUIRED : 10/5/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.
20	QCI	P-1073	TANDEX QUALITY CONTROL INSPECTION. QCI TO VERIFY CAR IN SEQ. 01 IS COMPLIANT	17	0	17	9/10/18	QA TANDEX 7
21	PKG		USE ORIGINAL OR TANDEX PACKAGING.	17	0	17	9/10/18	QA TANDEX 7
22	QAR	P-1213	TANDEX QUALITY ASSURANCE REVIEW. SHIP VIA: - Includes: 12 accept 5 Bond Pull Samples. SHIP / BILL TO: DIE DEVICES 47 WHERRY ROAD NORWICH, NR1, 1WS UNITED KINGDOM VAT GB#114 3513 56 * 8 pcs transferred to DDS-101-19-W for SEM.	17			9/10/18	QA TANDEX 7 QA TANDEX 5

Pre Burn-In Test Results at -55°C

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 1 TESTING $LM158 @ -55C 07/09/18 14:24:56

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.372	MA	+IS	[.010 TO 1.200 MA]
T# 2	.457	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.360	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.417	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.325	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.207	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	.937	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.880	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.107	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.998	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	-.127	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.135	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	10.9	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	10.9	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	10.9	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	60.86	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	64.15	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.73	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.75	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.15	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.13	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.00	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.18	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	38.63	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	38.63	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.09	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.30	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 2 TESTING $LM158 @ -55C 07/09/18 14:26:04

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.479	MA	+IS	[.010 TO 1.200 MA]
T# 2	.619	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.083	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-1.018	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.678	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.361	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.524	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.459	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.868	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.754	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.317	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.672	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	12.2	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	11.9	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	12.4	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.3	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	44.09	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	46.32	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.72	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.82	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.27	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.23	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.01	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.37	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	36.37	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	36.08	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.02	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.25	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 3 TESTING $LM158 @ -55C 07/09/18 14:26:56

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.377	MA	+IS	[.010 TO 1.200 MA]
T# 2	.462	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.353	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.367	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.040	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.293	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.806	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.022	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.998	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.178	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.667	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.048	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	11.8	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	11.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	11.9	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	46.44	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	53.04	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.72	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.78	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.18	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.18	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.40	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.74	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	38.02	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	37.90	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.07	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.27	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 4 TESTING $LM158 @ -55C 07/09/18 14:27:50

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.374	MA	+IS	[.010 TO 1.200 MA]
T# 2	.468	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.210	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.644	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.875	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.002	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.656	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.689	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.809	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.975	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.530	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.411	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-1.8	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	10.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	11.2	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	12.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.3	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	53.50	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	58.24	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.72	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.78	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.16	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.18	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.04	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.39	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	38.02	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	38.13	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.12	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.50	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 5 TESTING $LM158 @ -55C 07/09/18 14:28:51

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.373	MA	+IS	[.010 TO 1.200 MA]
T# 2	.461	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.476	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.489	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.154	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.142	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.989	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.838	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.162	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.956	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.828	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.152	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.1	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	11.3	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	10.9	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	11.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	10.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	51.80	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	51.70	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.75	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.78	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.18	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.17	V	+ V OUT	[MIN 27.00 V]
T# 14.1	4.52	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	4.93	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	38.13	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	38.55	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.06	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.32	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 6 TESTING $LM158 @ -55C 07/09/18 14:29:53

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.364	MA	+IS	[.010 TO 1.200 MA]
T# 2	.454	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.032	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.063	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.626	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.539	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.290	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.357	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.451	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.500	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.215	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	.272	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	10.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	10.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	10.7	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	10.7	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	56.94	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	58.03	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.75	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.78	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.18	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.18	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.05	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.33	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	38.02	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	37.90	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.16	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.44	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 7 TESTING $LM158 @ -55C 07/09/18 14:30:58

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.383	MA	+IS	[.010 TO 1.200 MA]
T# 2	.476	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.095	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.895	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.570	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.209	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.210	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.604	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.436	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.932	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.163	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.531	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	.1	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	11.0	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	11.4	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	10.6	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	54.25	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	56.51	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.75	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.78	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.18	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.18	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.05	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.36	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	38.02	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	37.65	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.22	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.40	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 8 TESTING $LM158 @ -55C 07/09/18 14:32:01

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.380	MA	+IS	[.010 TO 1.200 MA]
T# 2	.469	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.333	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.572	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.356	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.105	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.005	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.855	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.277	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.144	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	-.109	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.196	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	11.0	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	11.3	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	11.1	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.3	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	55.59	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	56.57	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.75	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.78	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.18	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.18	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.02	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.47	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	38.13	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	37.53	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.09	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.44	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 9 TESTING $LM158 @ -55C 07/09/18 14:32:55

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.379	MA	+IS	[.010 TO 1.200 MA]
T# 2	.467	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.387	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.804	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.297	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.155	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	.990	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.587	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.161	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.847	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	-.087	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.502	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	11.0	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	11.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	10.9	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.7	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	53.79	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	55.62	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.77	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.78	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.18	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.18	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.03	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.43	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	37.78	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	37.42	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.07	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.30	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 10 TESTING $LM158 @ -55C 07/09/18 14:33:49

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.393	MA	+IS	[.010 TO 1.200 MA]
T# 2	.487	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.062	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.749	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.747	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.061	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.488	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.669	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.745	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.015	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.351	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.499	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	11.8	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	11.3	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	12.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.2	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	52.30	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	53.59	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.75	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.81	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.21	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.21	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.35	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.49	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	37.65	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	37.70	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.07	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.21	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 11 TESTING $LM158 @ -55C 07/09/18 14:34:53

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.367	MA	+IS	[.010 TO 1.200 MA]
T# 2	.461	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.289	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.574	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.402	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.045	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.036	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.744	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.263	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.880	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	-.049	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.309	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	11.0	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	11.2	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	11.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.1	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	59.90	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	62.25	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.75	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.75	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.15	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.15	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.04	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.45	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	38.50	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	38.27	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.22	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.25	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 12 TESTING $LM158 @ -55C 07/09/18 14:35:53

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.370	MA	+IS	[.010 TO 1.200 MA]
T# 2	.462	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.081	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.797	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.580	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.147	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.231	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.542	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.346	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.740	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.212	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.515	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	10.8	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	11.3	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	10.8	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	57.20	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	58.72	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.75	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.77	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.18	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.17	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.01	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.37	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	38.38	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	38.00	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.22	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.34	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

Pre Burn-In Test Results at 25°C

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 1 TESTING $LM158 @ 25C 07/09/18 14:13:34

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.557	MA	+IS	[.010 TO 1.200 MA]
T# 2	.750	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.494	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.555	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.328	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.200	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.148	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.088	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	3.779	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.694	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	-.198	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.200	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.45	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.39	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.8	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	12.9	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.1	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.1	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	127.20	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	131.57	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.16	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-77.07	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-117.49	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-106.23	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.54	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.70	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.36	V	+ V OUT	[MIN 27.00 V]
T# 16.1	5.86	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	5.92	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.77	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.45	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.04	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.34	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.094	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.101	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.67	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.36	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8800 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 2 TESTING $LM158 @ 25C 07/09/18 14:14:21

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.550	MA	+IS	[.010 TO 1.200 MA]
T# 2	.746	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.217	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-1.035	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.618	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	-.308	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.574	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	.623	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	4.155	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.157	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.222	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.648	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.56	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	.11	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	13.2	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	12.6	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.6	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	12.4	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	128.59	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	131.63	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-75.61	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-77.21	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-103.29	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-104.09	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.54	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.37	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.68	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.67	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.80	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.57	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.34	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.56	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.095	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.094	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.72	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.39	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 3 TESTING $LM158 @ 25C 07/09/18 14:14:52

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.549	MA	+IS	[.010 TO 1.200 MA]
T# 2	.740	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.275	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.445	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	1.080	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.331	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	2.019	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.228	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	4.571	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.758	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.667	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.078	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.61	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.27	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	13.4	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.2	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.7	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.3	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	127.57	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	125.42	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.03	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-75.97	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-105.50	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-107.89	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.56	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.71	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.39	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.30	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.24	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.82	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.45	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.41	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.66	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.104	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.091	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.77	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.34	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8800 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 4 TESTING $LM158 @ 25C 07/09/18 14:15:15

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.562	MA	+IS	[.010 TO 1.200 MA]
T# 2	.755	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.145	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.695	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.940	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.067	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.946	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	.971	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	4.509	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.695	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.584	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.399	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.98	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.33	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.4	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	12.9	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.2	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.1	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	119.31	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	133.06	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.09	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.87	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-103.16	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-113.20	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.51	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.72	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.39	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.60	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.58	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.57	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.45	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.44	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.69	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.095	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.101	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.53	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.38	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 5 TESTING $LM158 @ 25C 07/09/18 14:15:40

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.555	MA	+IS	[.010 TO 1.200 MA]
T# 2	.754	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.390	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.542	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	1.211	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.216	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	2.287	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.102	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	4.899	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.635	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.872	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.132	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.57	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.10	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	13.1	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	12.5	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.5	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	12.4	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	128.43	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	130.01	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-75.05	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-77.00	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-102.35	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-103.26	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.51	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.72	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.39	V	+ V OUT	[MIN 27.00 V]
T# 16.1	4.00	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	4.00	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.69	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.69	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.32	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.69	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.105	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.101	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.49	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.49	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 6 TESTING $LM158 @ 25C 07/09/18 14:16:05

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.551	MA	+IS	[.010 TO 1.200 MA]
T# 2	.743	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.081	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.077	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.711	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.651	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.577	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.701	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	4.166	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	4.283	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.269	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	.362	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.19	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.25	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.6	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	12.5	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	12.6	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	12.5	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	127.41	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	131.52	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.67	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-75.97	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-107.20	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-102.86	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.54	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.39	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.26	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.24	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.54	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.22	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.41	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.76	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.098	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.095	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.37	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.05	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 7 TESTING $LM158 @ 25C 07/09/18 14:16:32

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.553	MA	+IS	[.010 TO 1.200 MA]
T# 2	.749	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.082	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.958	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.701	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	-.162	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.504	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	.833	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	4.092	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.574	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.244	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.542	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.04	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.62	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.5	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.0	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	12.3	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.4	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	120.20	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	137.49	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.93	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-75.61	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-108.28	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-104.91	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.54	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.39	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.16	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.15	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.80	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.27	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.46	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.71	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.087	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.093	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.69	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.10	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8800 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 8 TESTING $LM158 @ 25C 07/09/18 14:16:58

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.554	MA	+IS	[.010 TO 1.200 MA]
T# 2	.752	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.579	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.593	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.237	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.202	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.053	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.165	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	3.743	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.871	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	-.298	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.133	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.41	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.39	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.4	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.1	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	12.7	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.1	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	123.70	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	133.82	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.16	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.34	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-127.67	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-101.76	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.54	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.71	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.39	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.17	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.14	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.85	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.20	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.22	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.79	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.102	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.090	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.73	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.01	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 9 TESTING $LM158 @ 25C 07/09/18 14:17:18

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.551	MA	+IS	[.010 TO 1.200 MA]
T# 2	.742	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.592	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.843	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.213	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	-.080	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.072	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	.839	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	3.624	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.503	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	-.217	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.483	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.17	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.61	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.5	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.1	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	12.6	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.5	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	127.57	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	133.70	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.09	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.54	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-106.94	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-106.94	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.54	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.39	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.21	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.13	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.69	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.10	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.34	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.57	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.090	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.090	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.58	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	31.97	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 10 TESTING $LM158 @ 25C 07/09/18 14:17:44

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.551	MA	+IS	[.010 TO 1.200 MA]
T# 2	.747	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.221	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.823	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	1.012	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	-.038	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.913	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	.839	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	4.491	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.538	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.595	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.523	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.51	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.17	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	13.4	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	12.8	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.7	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	12.6	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	126.09	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	127.83	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.41	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.60	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-105.88	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-114.03	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.54	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.72	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.38	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.19	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.06	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.82	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.57	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.34	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.66	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.096	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.095	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.73	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.38	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8800 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 11 TESTING $LM158 @ 25C 07/09/18 14:18:05

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.561	MA	+IS	[.010 TO 1.200 MA]
T# 2	.757	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.418	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.814	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.423	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	-.038	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.247	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	.892	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	3.960	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.498	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	-.119	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.431	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.11	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.19	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	13.0	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.0	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.0	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.1	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	127.67	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	128.05	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.09	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.41	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-117.49	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-105.07	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.54	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.39	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.13	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.03	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.80	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.35	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.49	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.71	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.099	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.091	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.64	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.15	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 12 TESTING $LM158 @ 25C 07/09/18 14:18:24

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.560	MA	+IS	[.010 TO 1.200 MA]
T# 2	.757	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.218	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.984	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.589	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	-.192	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.427	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	.691	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	3.953	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.355	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.145	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.623	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.10	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.43	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.8	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.4	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	12.7	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.6	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	128.53	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	128.48	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.34	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.28	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-106.34	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-107.47	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.54	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.39	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.10	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.08	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.52	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.10	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.46	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.64	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.108	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.105	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.49	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.01	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8800 MS
PASS BIN 1

Pre Burn-In Test Results at +125°C

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 1 TESTING $LM158 @ 125C 07/10/18 05:58:17

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	1.081	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.490	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.392	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.842	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.633	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.108	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.727	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.288	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.946	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.488	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.016	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.353	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.4	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.6	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.7	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	65.52	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	69.81	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.02	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.22	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.65	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.62	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.06	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.25	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	24.71	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	24.40	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.02	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.27	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 2 TESTING $LM158 @ 125C 07/10/18 05:59:11

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.769	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.065	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.266	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.951	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.677	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.113	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.815	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.006	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.757	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.904	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.241	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.468	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.6	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	13.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.8	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	13.6	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	76.35	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	78.26	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.13	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.32	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.60	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.57	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.23	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	2.93	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.29	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	25.93	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.26	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.52	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 3 TESTING $LM158 @ 125C 07/10/18 05:59:41

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.747	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.025	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.429	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.491	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.339	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.388	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	2.466	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.441	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	5.369	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.339	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.920	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.098	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.8	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	15.1	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	75.82	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	74.80	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.16	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.31	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.60	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.60	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.21	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	2.92	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.16	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	25.68	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.14	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.42	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 4 TESTING $LM158 @ 125C 07/10/18 06:00:05

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.758	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.054	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.435	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.784	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.332	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.082	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	2.530	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.154	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	5.449	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.260	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.979	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.435	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.8	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.3	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.3	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	73.14	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	78.91	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.07	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.28	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.59	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.56	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.23	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.08	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.04	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	25.81	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.26	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.51	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 5 TESTING $LM158 @ 125C 07/10/18 06:00:29

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.782	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.081	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.464	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.564	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.415	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.297	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	2.708	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.346	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	5.714	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.262	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	1.059	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.105	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.7	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	13.8	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.9	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	13.7	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	71.80	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	74.47	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.07	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.31	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.60	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.60	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.14	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.02	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	25.68	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	25.56	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.02	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.41	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 6 TESTING $LM158 @ 125C 07/10/18 06:00:51

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.691	MA	+IS	[.010 TO 1.200 MA]
T# 2	.947	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.013	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.275	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.862	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.530	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.851	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.725	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.729	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.596	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.397	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	.220	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	13.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	13.6	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	13.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	83.12	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	85.65	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.13	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.41	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.53	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.53	V	+ V OUT	[MIN 27.00 V]
T# 14.1	4.19	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	4.08	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	27.49	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	27.01	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.09	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.74	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 7 TESTING $LM158 @ 125C 07/10/18 06:01:18

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.736	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.012	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.206	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.983	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.096	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.094	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	2.045	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.079	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.971	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.182	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.617	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.511	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.7	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.2	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	13.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.7	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	77.04	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	78.61	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.13	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.31	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.60	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.56	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.13	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.07	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.34	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	25.86	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.14	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.49	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 8 TESTING $LM158 @ 125C 07/10/18 06:01:40

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.728	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.003	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.486	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.649	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.428	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.239	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.382	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.365	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.395	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.409	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	-.156	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.125	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.3	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	13.9	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.3	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	77.67	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	83.27	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.16	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.38	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.56	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.56	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.27	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.17	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.78	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.16	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.29	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.71	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 9 TESTING $LM158 @ 125C 07/10/18 06:02:04

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.800	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.106	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.524	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.917	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.411	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.034	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.455	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.088	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.393	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.176	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	-.066	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.487	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.7	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.8	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	13.9	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	15.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	74.25	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	74.74	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.10	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.30	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.60	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.60	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.10	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.08	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	25.73	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	25.08	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.26	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.52	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 10 TESTING $LM158 @ 125C 07/10/18 06:02:25

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.715	MA	+IS	[.010 TO 1.200 MA]
T# 2	.987	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.412	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.733	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.296	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.143	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	2.362	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.178	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	5.263	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.232	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.880	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.385	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.7	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	13.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.9	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	74.80	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	77.12	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.13	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.31	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.60	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.60	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.17	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	2.93	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.04	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	25.68	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.26	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.54	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 11 TESTING $LM158 @ 125C 07/10/18 06:02:44

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.705	MA	+IS	[.010 TO 1.200 MA]
T# 2	.970	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.343	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.896	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.590	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.046	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.536	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.017	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.574	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.924	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.004	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.493	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.2	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.1	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.3	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.4	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	80.30	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	80.72	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.16	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.35	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.60	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.56	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.20	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.04	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.53	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.06	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.27	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.62	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: ELECTRICAL VERIFICATION SEQ.#: 12

DEVICE 12 TESTING $LM158 @ 125C 07/10/18 06:03:05

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.723	MA	+IS	[.010 TO 1.200 MA]
T# 2	.998	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.112	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-1.174	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.802	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.304	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.779	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.713	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.626	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.715	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.326	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.799	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.0	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	15.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	74.11	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	79.69	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.13	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.35	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.60	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.60	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.17	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.10	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.06	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	25.73	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.39	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.61	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

Post Burn-In Test Results at -55°C

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 1 TESTING $LM158 @ -55C 07/26/18 07:49:00

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.355	MA	+IS	[.010 TO 1.200 MA]
T# 2	.441	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.145	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.097	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.809	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.346	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.219	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.080	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	2.828	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.694	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.158	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	.095	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.8	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	10.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	10.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	10.7	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	10.9	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	63.70	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	62.18	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.71	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.68	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.11	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.11	V	+ V OUT	[MIN 27.00 V]
T# 14.1	2.99	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.05	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	39.02	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	39.17	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.21	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.29	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 2 TESTING $LM158 @ -55C 07/26/18 07:49:26

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.341	MA	+IS	[.010 TO 1.200 MA]
T# 2	.427	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.381	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.467	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.092	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.034	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.519	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.719	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.351	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.307	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.471	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.242	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-7.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	10.9	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	10.0	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	11.2	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	17.1	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	64.72	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	62.32	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.71	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.68	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.11	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.11	V	+ V OUT	[MIN 27.00 V]
T# 14.1	2.90	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.18	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	39.27	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	39.30	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.16	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.17	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 3 TESTING $LM158 @ -55C 07/26/18 07:49:50

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.340	MA	+IS	[.010 TO 1.200 MA]
T# 2	.426	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.453	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	.273	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.753	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.867	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.801	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.432	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.053	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.925	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.752	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	.418	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	1.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.7	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	12.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	10.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	11.4	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	61.72	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	63.97	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.71	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.71	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.11	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.11	V	+ V OUT	[MIN 27.00 V]
T# 14.1	2.93	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	2.84	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	39.25	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	39.15	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.09	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.09	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 4 TESTING $LM158 @ -55C 07/26/18 07:50:19

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.336	MA	+IS	[.010 TO 1.200 MA]
T# 2	.420	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.689	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.151	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.236	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.182	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.720	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.016	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.610	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.588	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.704	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	.026	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-2.7	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	9.8	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	10.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	12.6	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	10.7	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	64.20	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	65.60	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.68	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.71	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.11	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.11	V	+ V OUT	[MIN 27.00 V]
T# 14.1	2.91	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	2.94	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	39.15	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	39.40	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.21	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.21	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 5 TESTING $LM158 @ -55C 07/26/18 07:50:45

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.336	MA	+IS	[.010 TO 1.200 MA]
T# 2	.420	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.425	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.024	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.685	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.157	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.916	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.278	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.230	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.418	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.871	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	.382	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-2.1	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	8.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	9.9	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	10.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	9.6	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	64.42	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	65.87	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.69	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.71	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.11	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.10	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.00	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	2.78	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	39.23	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	39.63	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.09	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.21	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7160 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 6 TESTING $LM158 @ -55C 07/26/18 07:51:41

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.347	MA	+IS	[.010 TO 1.200 MA]
T# 2	.429	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.099	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	.027	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.455	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.348	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.422	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.542	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	2.705	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.720	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.431	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	.544	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-9.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.1	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	-.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	9.8	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	7.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	9.8	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	63.77	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	63.33	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.71	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.71	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.11	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.11	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.02	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.08	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	38.95	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	38.98	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.11	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.30	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 7 TESTING $LM158 @ -55C 07/26/18 07:52:08

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.338	MA	+IS	[.010 TO 1.200 MA]
T# 2	.427	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.032	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.418	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.221	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.146	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.169	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.943	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	2.439	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.224	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.226	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.075	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-8.6	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	-4.2	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	10.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	4.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	10.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	64.76	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	66.78	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.71	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.71	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.11	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.11	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.04	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	2.77	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	39.38	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	39.10	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.21	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.09	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

```
DEVICE 8 TESTING       $LM158 @ -55C            07/26/18 07:52:40
T# 0          0.0      WARMUP                 [ NO LIMIT ]
T# 1         .328 MA   +IS                   [   .010 TO  1.200 MA]
T# 2         .412 MA   +IS                   [   .010 TO  2.000 MA]
T# 3.1       .237 MV   VOS 50 OHM            [ -7.000 TO  7.000 MV]
T# 3.2       .157 MV   VOS 50 OHM            [ -7.000 TO  7.000 MV]
T# 4.1       .971 MV   VOS 50 OHM            [ -7.000 TO  7.000 MV]
T# 4.2       .754 MV   VOS 50 OHM            [ -7.000 TO  7.000 MV]
T# 5.1      1.080 MV   VOS 50 OHM            [ -7.000 TO  7.000 MV]
T# 5.2      1.248 MV   VOS 50 OHM            [ -7.000 TO  7.000 MV]
T# 6.1      2.968 MV   VOS 50 OHM            [ -7.000 TO  7.000 MV]
T# 6.2      2.907 MV   VOS 50 OHM            [ -7.000 TO  7.000 MV]
T# 7.1       .068 MV   VOS 50 OHM            [ -7.000 TO  7.000 MV]
T# 7.2       .295 MV   VOS 50 OHM            [ -7.000 TO  7.000 MV]
T# 8.1       -4.2 NA   IOS                    [ -100.0 TO  100.0 NA]
T# 8.2        -.4 NA   IOS                    [ -100.0 TO  100.0 NA]
T# 9.1        4.0 NA   +IB                    [ -300.0 TO  300.0 NA]
T# 9.2       10.1 NA   +IB                    [ -300.0 TO  300.0 NA]
T# 10.1       7.7 NA   -IB                    [ -300.0 TO  300.0 NA]
T# 10.2      10.3 NA   -IB                    [ -300.0 TO  300.0 NA]
T# 11.1     65.86 V/MV AOL                    [MIN    25.00 V/MV]
T# 11.2     67.94 V/MV AOL                    [MIN    25.00 V/MV]
T# 12.1     27.68 V    + V OUT                [MIN    26.00 V]
T# 12.2     27.69 V    + V OUT                [MIN    26.00 V]
T# 13.1     28.10 V    + V OUT                [MIN    27.00 V]
T# 13.2     28.08 V    + V OUT                [MIN    27.00 V]
T# 14.1      3.03 MV   - V OUT                [MAX    20.00 MV]
T# 14.2      2.74 MV   - V OUT                [MAX    20.00 MV]
T# 15.1     39.62 MA   +IOUT                  [   9.99 TO  75.00 MA]
T# 15.2     39.07 MA   +IOUT                  [   9.99 TO  75.00 MA]
T# 16.1    -12.96 MA   -IOUT                  [ -75.00 TO  -5.00 MA]
T# 16.2    -13.21 MA   -IOUT                  [ -75.00 TO  -5.00 MA]
TEST TIME  7120 MS
PASS BIN 1
```

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 9 TESTING $LM158 @ -55C 07/26/18 07:53:10

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.324	MA	+IS	[.010 TO 1.200 MA]
T# 2	.407	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.103	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.578	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.224	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.157	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.044	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.494	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	1.990	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	.897	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.085	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.450	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	4.1	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.6	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	5.1	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	10.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	2.2	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	10.9	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	65.27	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	67.82	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.68	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.10	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.08	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.02	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	2.67	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	39.25	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	39.12	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-12.97	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-12.99	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 10 TESTING $LM158 @ -55C 07/26/18 07:54:22

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.334	MA	+IS	[.010 TO 1.200 MA]
T# 2	.422	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.481	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.161	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.831	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.306	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.586	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.944	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.133	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.639	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.609	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.091	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	2.7	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	10.8	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	10.4	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	9.2	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	10.2	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	55.83	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	66.90	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.70	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.71	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.11	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.11	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.28	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	2.90	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	39.25	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	39.45	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-12.97	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-13.09	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 11 TESTING $LM158 @ -55C 07/26/18 07:55:07

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.329	MA	+IS	[.010 TO 1.200 MA]
T# 2	.407	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.014	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.233	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.525	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.234	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.155	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.896	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	2.620	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.347	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.235	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.038	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	.1	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.1	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	10.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	10.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	10.1	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	10.4	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	66.58	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	59.96	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.68	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.62	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.08	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.08	V	+ V OUT	[MIN 27.00 V]
T# 14.1	2.93	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	2.92	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	39.38	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	39.27	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.09	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-12.84	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 12 TESTING $LM158 @ -55C 07/26/18 07:55:41

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.326	MA	+IS	[.010 TO 1.200 MA]
T# 2	.404	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.406	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.301	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.022	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.066	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.378	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.824	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	2.994	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.090	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.475	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.101	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.1	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	10.2	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	11.2	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	10.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	11.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	65.00	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	68.06	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.68	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.68	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.08	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.08	V	+ V OUT	[MIN 27.00 V]
T# 14.1	2.86	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	2.90	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	39.52	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	39.25	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-13.09	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-12.96	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

Post Burn-In Test Results at 25°C

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 1 TESTING $LM158 @ 25C 07/26/18 07:11:51

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.558	MA	+IS	[.010 TO 1.200 MA]
T# 2	.745	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.107	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.281	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.693	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.313	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.433	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.343	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	1.497	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	1.810	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.032	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	.025	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.66	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.54	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.7	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.1	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.2	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.3	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	132.32	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	138.11	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-75.91	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-77.21	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-106.25	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-110.34	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.48	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.63	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.36	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.36	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.29	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.25	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.89	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.50	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.54	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.87	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.103	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.107	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.74	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.40	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 2 TESTING $LM158 @ 25C 07/26/18 07:12:06

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.549	MA	+IS	[.010 TO 1.200 MA]
T# 2	.741	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.265	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.755	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	1.093	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	-.141	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.902	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	.912	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	3.581	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	2.493	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.500	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.386	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.92	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	.05	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	13.1	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	12.5	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.9	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	12.3	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	126.56	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	129.62	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-75.79	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.80	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-115.35	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-105.56	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.44	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.63	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.36	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.36	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.45	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.33	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.99	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.70	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.52	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.72	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.109	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.100	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.89	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.55	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

```
DEVICE 3 TESTING       $LM158 @ 25C              07/26/18 07:12:21
T# 0          0.0      WARMUP                  [ NO LIMIT ]
T# 1         .546 MA   +IS                    [   .010 TO  1.200 MA]
T# 2         .738 MA   +IS                    [   .010 TO  2.000 MA]
T# 3.1       .419 MV   VOS 50 OHM             [ -5.000 TO  5.000 MV]
T# 3.2      -.061 MV   VOS 50 OHM             [ -5.000 TO  5.000 MV]
T# 4.1       .865 MV   VOS 50 OHM             [ -5.000 TO  5.000 MV]
T# 4.2       .650 MV   VOS 50 OHM             [ -5.000 TO  5.000 MV]
T# 5.1      2.270 MV   VOS 50 OHM             [ -5.000 TO  5.000 MV]
T# 5.2      1.583 MV   VOS 50 OHM             [ -5.000 TO  5.000 MV]
T# 6.1      3.076 MV   VOS 50 OHM             [ -5.000 TO  5.000 MV]
T# 6.2      1.958 MV   VOS 50 OHM             [ -5.000 TO  5.000 MV]
T# 7.1       .888 MV   VOS 50 OHM             [ -5.000 TO  5.000 MV]
T# 7.2       .212 MV   VOS 50 OHM             [ -5.000 TO  5.000 MV]
T# 8.1       -.44 NA   IOS                    [ -30.00 TO  30.00 NA]
T# 8.2       -.54 NA   IOS                    [ -30.00 TO  30.00 NA]
T# 9.1       13.5 NA   +IB                    [ -150.0 TO  150.0 NA]
T# 9.2       13.3 NA   +IB                    [ -150.0 TO  150.0 NA]
T# 10.1      13.7 NA   -IB                    [ -150.0 TO  150.0 NA]
T# 10.2      13.5 NA   -IB                    [ -150.0 TO  150.0 NA]
T# 11.1    124.91 V/MV AOL                   [MIN    50.00 V/MV]
T# 11.2    128.05 V/MV AOL                   [MIN    50.00 V/MV]
T# 12.1    -75.85 DB   CMRR                  [MAX   -70.01 DB]
T# 12.2    -75.50 DB   CMRR                  [MAX   -70.01 DB]
T# 13.1   -101.80 DB   PSRR                  [MAX   -73.21 DB]
T# 13.2   -143.52 DB   PSRR                  [MAX   -73.21 DB]
T# 14.1     27.55 V    + V OUT               [MIN    26.00 V]
T# 14.2     27.63 V    + V OUT               [MIN    26.00 V]
T# 15.1     28.39 V    + V OUT               [MIN    27.00 V]
T# 15.2     28.36 V    + V OUT               [MIN    27.00 V]
T# 16.1      3.16 MV   - V OUT               [MAX    20.00 MV]
T# 16.2      3.12 MV   - V OUT               [MAX    20.00 MV]
T# 17.1     32.97 MA   +IOUT                 [  20.00 TO  75.00 MA]
T# 17.2     32.59 MA   +IOUT                 [  20.00 TO  75.00 MA]
T# 18.1    -12.59 MA   -IOUT                 [ -75.00 TO  -9.99 MA]
T# 18.2    -12.61 MA   -IOUT                 [ -75.00 TO  -9.99 MA]
T# 19.1     -.103 MA   -IOUT                 [ -1.000 TO  -.012 MA]
T# 19.2     -.101 MA   -IOUT                 [ -1.000 TO  -.012 MA]
T# 20.1     32.88 MA   +ISC                  [   0.00 TO  60.00 MA]
T# 20.2     32.45 MA   +ISC                  [   0.00 TO  60.00 MA]
TEST TIME  8800 MS
PASS BIN 1
```

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 4 TESTING $LM158 @ 25C 07/26/18 07:12:36

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.557	MA	+IS	[.010 TO 1.200 MA]
T# 2	.751	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.776	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.493	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	1.448	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.004	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	2.307	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.188	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	4.497	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	3.196	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.906	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.189	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-1.20	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.27	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.2	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.0	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.2	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.0	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	122.66	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	129.79	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.60	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-77.00	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-105.90	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-111.87	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.51	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.36	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.14	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.01	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.70	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.59	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.49	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.92	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.109	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.103	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.62	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.48	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 5 TESTING $LM158 @ 25C 07/26/18 07:12:52

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.555	MA	+IS	[.010 TO 1.200 MA]
T# 2	.747	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.456	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.436	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.879	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	-.107	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	2.557	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.373	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	4.102	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	2.713	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	1.130	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	.138	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.33	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	.11	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	13.2	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	12.6	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.3	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	12.1	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	124.10	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	128.21	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-75.44	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-77.00	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-96.24	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-97.37	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.51	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.37	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.15	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.09	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.84	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.80	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.54	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.89	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.109	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.100	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.68	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.67	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 6 TESTING $LM158 @ 25C 07/26/18 07:13:08

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.549	MA	+IS	[.010 TO 1.200 MA]
T# 2	.741	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.029	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.133	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.515	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.305	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.806	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.906	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	2.919	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	2.468	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.501	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	.566	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.11	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.06	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.4	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	12.4	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	12.4	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	12.2	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	129.40	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	129.46	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.93	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.41	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-100.68	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-95.00	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.51	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.36	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.13	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	2.97	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.65	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.34	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.57	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.89	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.107	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.102	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.58	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.19	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 7 TESTING $LM158 @ 25C 07/26/18 07:13:23

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.556	MA	+IS	[.010 TO 1.200 MA]
T# 2	.750	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.038	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.809	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.420	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	-.416	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.721	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.078	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	2.609	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	1.929	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.448	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.319	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	.15	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.48	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.4	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.0	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	12.1	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.3	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	124.45	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	135.66	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-77.00	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-75.79	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-102.75	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-101.22	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.51	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.36	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.17	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.08	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.95	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.34	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.61	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.86	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.104	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.104	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.84	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.26	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 8 TESTING $LM158 @ 25C 07/26/18 07:13:38

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.555	MA	+IS	[.010 TO 1.200 MA]
T# 2	.747	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.089	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.188	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.985	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.511	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.403	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.463	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	2.744	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	2.791	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	-.010	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	.111	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.67	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.46	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.3	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.0	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	12.8	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.0	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	132.37	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	132.03	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-75.67	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.28	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-96.49	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-115.35	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.51	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.67	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.36	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.05	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.04	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.97	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.34	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.51	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.91	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.109	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.108	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.95	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.19	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8800 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 9 TESTING $LM158 @ 25C 07/26/18 07:14:10

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.556	MA	+IS	[.010 TO 1.200 MA]
T# 2	.754	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.289	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.900	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.204	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	-.370	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.398	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	.673	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	1.362	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	-4.434	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.043	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.652	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.18	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-1.20	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.6	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.3	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	12.5	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	14.2	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	122.26	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	132.14	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-75.73	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-84.43	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-112.94	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-105.11	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.51	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.39	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.14	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.04	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.70	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.10	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.46	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.79	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.107	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.104	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.63	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	31.99	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 10 TESTING $LM158 @ 25C 07/26/18 07:14:26

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.558	MA	+IS	[.010 TO 1.200 MA]
T# 2	.748	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.569	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.491	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	1.047	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.089	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	2.205	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.141	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	3.558	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	2.819	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.856	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.285	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.41	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.29	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	13.4	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	12.8	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	13.5	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	12.8	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	127.41	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	130.79	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.41	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.16	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-117.85	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-113.86	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.51	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.67	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.38	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.36	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.15	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.05	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.95	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.59	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.56	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.76	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.109	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.102	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.82	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.50	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8800 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 11 TESTING $LM158 @ 25C 07/26/18 07:14:40

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.564	MA	+IS	[.010 TO 1.200 MA]
T# 2	.761	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.203	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.541	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.534	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	.107	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.482	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	1.134	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	2.870	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	1.981	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.172	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.185	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.07	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.23	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.9	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.0	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	12.9	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.0	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	129.79	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	134.06	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-75.33	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.47	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-108.49	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-107.31	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.54	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.37	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.35	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	3.28	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.84	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.39	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.59	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.77	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.106	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.105	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.70	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.23	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8840 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 12 TESTING $LM158 @ 25C 07/26/18 07:14:55

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.556	MA	+IS	[.010 TO 1.200 MA]
T# 2	.747	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.204	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 3.2	-.764	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.1	.985	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 4.2	-.327	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.1	1.694	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 5.2	.921	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.1	3.512	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 6.2	2.017	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.1	.403	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 7.2	-.395	MV	VOS 50 OHM	[-5.000 TO 5.000 MV]
T# 8.1	-.24	NA	IOS	[-30.00 TO 30.00 NA]
T# 8.2	-.39	NA	IOS	[-30.00 TO 30.00 NA]
T# 9.1	12.6	NA	+IB	[-150.0 TO 150.0 NA]
T# 9.2	13.4	NA	+IB	[-150.0 TO 150.0 NA]
T# 10.1	12.6	NA	-IB	[-150.0 TO 150.0 NA]
T# 10.2	13.6	NA	-IB	[-150.0 TO 150.0 NA]
T# 11.1	126.56	V/MV	AOL	[MIN 50.00 V/MV]
T# 11.2	130.62	V/MV	AOL	[MIN 50.00 V/MV]
T# 12.1	-76.47	DB	CMRR	[MAX -70.01 DB]
T# 12.2	-76.34	DB	CMRR	[MAX -70.01 DB]
T# 13.1	-114.63	DB	PSRR	[MAX -73.21 DB]
T# 13.2	-106.49	DB	PSRR	[MAX -73.21 DB]
T# 14.1	27.51	V	+ V OUT	[MIN 26.00 V]
T# 14.2	27.69	V	+ V OUT	[MIN 26.00 V]
T# 15.1	28.39	V	+ V OUT	[MIN 27.00 V]
T# 15.2	28.36	V	+ V OUT	[MIN 27.00 V]
T# 16.1	3.12	MV	- V OUT	[MAX 20.00 MV]
T# 16.2	2.95	MV	- V OUT	[MAX 20.00 MV]
T# 17.1	32.84	MA	+IOUT	[20.00 TO 75.00 MA]
T# 17.2	32.35	MA	+IOUT	[20.00 TO 75.00 MA]
T# 18.1	-12.59	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 18.2	-12.81	MA	-IOUT	[-75.00 TO -9.99 MA]
T# 19.1	-.108	MA	-IOUT	[-1.000 TO -.012 MA]
T# 19.2	-.102	MA	-IOUT	[-1.000 TO -.012 MA]
T# 20.1	32.67	MA	+ISC	[0.00 TO 60.00 MA]
T# 20.2	32.20	MA	+ISC	[0.00 TO 60.00 MA]

TEST TIME 8800 MS
PASS BIN 1

Post Burn-In Test Results at +125°C

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 1 TESTING $LM158 @ 125C 07/26/18 08:19:31

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.718	MA	+IS	[.010 TO 1.200 MA]
T# 2	.979	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.090	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.402	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.764	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.262	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.676	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.438	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.534	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.604	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.120	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.047	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.7	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	13.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.2	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.3	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	92.86	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	95.23	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.20	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.39	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.45	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.43	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.91	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.75	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	28.34	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	28.03	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.51	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.82	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 2 TESTING $LM158 @ 125C 07/26/18 08:20:00

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.841	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.148	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.479	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.863	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.412	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.143	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	2.466	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.132	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	5.136	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.598	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.797	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.406	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-1.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.3	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	13.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	15.2	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	13.6	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	82.07	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	83.12	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.09	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.30	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.49	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.49	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.81	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.55	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	27.01	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.79	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.14	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.46	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 3 TESTING $LM158 @ 125C 07/26/18 08:20:29

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.875	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.202	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.617	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.286	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.181	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.549	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	2.853	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.745	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.820	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.072	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	1.210	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	.085	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.6	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	15.1	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.8	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	76.85	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	78.32	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.12	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.27	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.49	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.49	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.80	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.58	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.89	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.46	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.07	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.34	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 4 TESTING $LM158 @ 125C 07/26/18 08:20:58

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.883	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.217	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	1.165	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.499	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.934	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.110	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	3.044	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.528	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	5.915	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.149	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	1.378	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.117	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-1.1	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.4	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.0	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.2	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.3	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	77.41	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	84.03	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.06	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.27	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.49	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.49	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.83	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.58	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.86	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.68	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.14	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.51	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 5 TESTING $LM158 @ 125C 07/26/18 08:21:25

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.851	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.177	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.644	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.569	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.184	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.133	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	3.138	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.570	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	5.356	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.494	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	1.444	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	.110	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	13.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.5	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	13.2	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	79.90	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	83.02	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.06	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.30	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.49	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.49	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.96	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.71	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	27.14	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.89	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.14	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.44	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 6 TESTING $LM158 @ 125C 07/26/18 08:21:49

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.871	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.197	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.116	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.314	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.714	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.240	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	2.225	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	2.129	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.351	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.912	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.673	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	.530	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.1	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	13.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	13.6	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	13.4	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	77.69	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	81.15	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.06	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.27	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.49	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.49	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.85	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.57	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.78	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.31	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.07	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.39	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS

PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 7 TESTING $LM158 @ 125C 07/26/18 08:22:15

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.858	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.176	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.393	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.796	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.878	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.299	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	2.382	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.458	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.309	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.439	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.882	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.205	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	.0	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.6	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.4	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.2	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	13.3	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.6	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	77.26	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	83.82	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.09	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.30	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.49	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.49	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.87	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.66	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	27.01	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.53	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.26	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.44	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 8 TESTING $LM158 @ 125C 07/26/18 08:22:40

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.866	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.191	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.210	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.128	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.214	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.660	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.822	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.865	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.766	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.383	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.150	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	.264	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.7	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.6	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.3	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.0	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	13.9	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.3	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	81.65	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	85.20	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.09	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.30	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.49	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.49	V	+ V OUT	[MIN 27.00 V]
T# 14.1	4.37	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	4.27	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	27.26	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.63	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.04	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.42	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 9 TESTING $LM158 @ 125C 07/26/18 08:23:00

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.831	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.140	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.132	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.923	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.455	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.305	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.840	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	.936	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	3.448	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	2.666	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.265	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.610	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-1.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.6	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.4	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	13.6	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	15.6	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	81.32	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	83.89	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.11	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.30	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.49	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.49	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.87	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.62	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	27.26	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.58	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.26	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.49	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 10 TESTING $LM158 @ 125C 07/26/18 08:23:29

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.879	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.206	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.973	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.460	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.559	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.223	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	2.954	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.534	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	5.238	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	4.081	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	1.354	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.168	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.4	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.5	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	13.9	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.7	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	81.24	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	82.42	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.09	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.29	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.49	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.49	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.73	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.55	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	27.01	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.64	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.07	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.39	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 11 TESTING $LM158 @ 125C 07/26/18 08:24:03

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.909	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.257	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	-.158	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.622	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	.718	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	.146	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	1.870	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.418	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.549	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.851	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.301	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.158	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.1	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.3	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	14.3	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.0	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	14.0	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.2	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	80.11	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	82.38	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.09	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.27	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.49	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.49	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.99	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.73	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.89	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.41	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.17	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.41	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

JOB NUMBER: DDS-101-19-A TEST POINT: POST BURN-IN ELECTRICAL SEQ.#: 14

DEVICE 12 TESTING $LM158 @ 125C 07/26/18 08:24:30

T# 0	0.0		WARMUP	[NO LIMIT]
T# 1	.874	MA	+IS	[.010 TO 1.200 MA]
T# 2	1.207	MA	+IS	[.010 TO 2.000 MA]
T# 3.1	.327	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 3.2	-.996	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.1	1.224	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 4.2	-.422	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.1	2.151	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 5.2	1.036	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.1	4.881	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 6.2	3.208	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.1	.609	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 7.2	-.523	MV	VOS 50 OHM	[-7.000 TO 7.000 MV]
T# 8.1	-.2	NA	IOS	[-100.0 TO 100.0 NA]
T# 8.2	-.5	NA	IOS	[-100.0 TO 100.0 NA]
T# 9.1	13.8	NA	+IB	[-300.0 TO 300.0 NA]
T# 9.2	14.7	NA	+IB	[-300.0 TO 300.0 NA]
T# 10.1	13.8	NA	-IB	[-300.0 TO 300.0 NA]
T# 10.2	14.8	NA	-IB	[-300.0 TO 300.0 NA]
T# 11.1	77.81	V/MV	AOL	[MIN 25.00 V/MV]
T# 11.2	82.22	V/MV	AOL	[MIN 25.00 V/MV]
T# 12.1	27.09	V	+ V OUT	[MIN 26.00 V]
T# 12.2	27.30	V	+ V OUT	[MIN 26.00 V]
T# 13.1	28.49	V	+ V OUT	[MIN 27.00 V]
T# 13.2	28.49	V	+ V OUT	[MIN 27.00 V]
T# 14.1	3.94	MV	- V OUT	[MAX 20.00 MV]
T# 14.2	3.64	MV	- V OUT	[MAX 20.00 MV]
T# 15.1	26.91	MA	+IOUT	[9.99 TO 75.00 MA]
T# 15.2	26.54	MA	+IOUT	[9.99 TO 75.00 MA]
T# 16.1	-11.14	MA	-IOUT	[-75.00 TO -5.00 MA]
T# 16.2	-11.39	MA	-IOUT	[-75.00 TO -5.00 MA]

TEST TIME 7120 MS
PASS BIN 1

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-101-19-W
Date: July 09, 2018
Part Number: LM158
Part Type: AMPLIFIER MICROCIRCUIT
Lot: Lot# 20395 D/C: 1810 WFR# 48
Quantity: Eight (8)
Purchase Order: SS139

Submitted by: _____
Jason A. Salinas
DPA/MTS

Approved by: Deborah M. Gorham
Deborah M. Gorham
Quality Assurance

TANDEX TEST LABS TTL Job # DDS-101-19-W

Summary

Eight (8) Amplifier Microcircuit P/N: LM158 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-101-19-W
SEM EXAMINATION

TTL Job No.	Part Number	Part Type	Date
DDS-101-19-W	LM158	Amplifier Microcircuit	July 6, 2018
Lot Date Code: WFR# 48 Lot# 20395 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**

TTL 4

Technician Stamp:

TANDEX TEST LABS TTL Job # DDS-101-19-W

Photodocumentation

TANDEX TEST LABS TTL Job # DDS-101-19-W

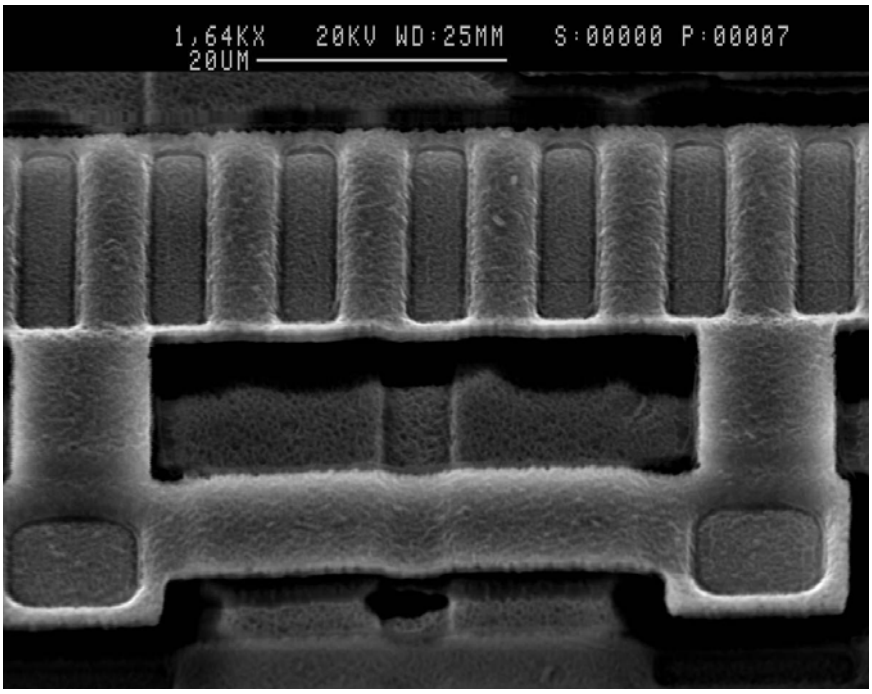

Fig: 1

Mag: 1,640X

S/N: 6

Description: SEM photograph of general metallization.

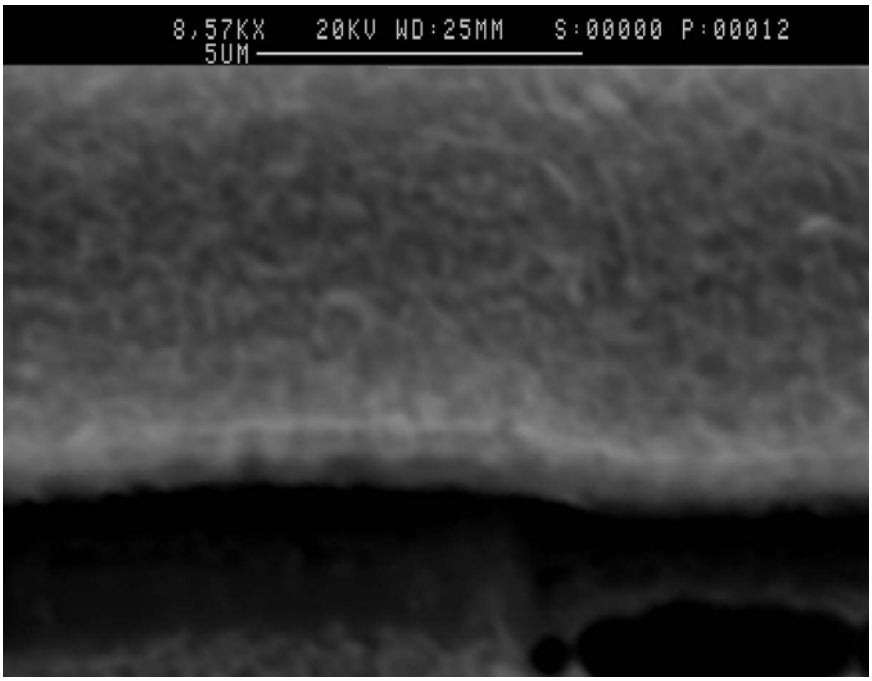

Fig: 2

Mag: 8,570X

S/N: 6

Description: SEM photograph of metallization typical step.

TANDEX TEST LABS TTL Job # DDS-101-19-W

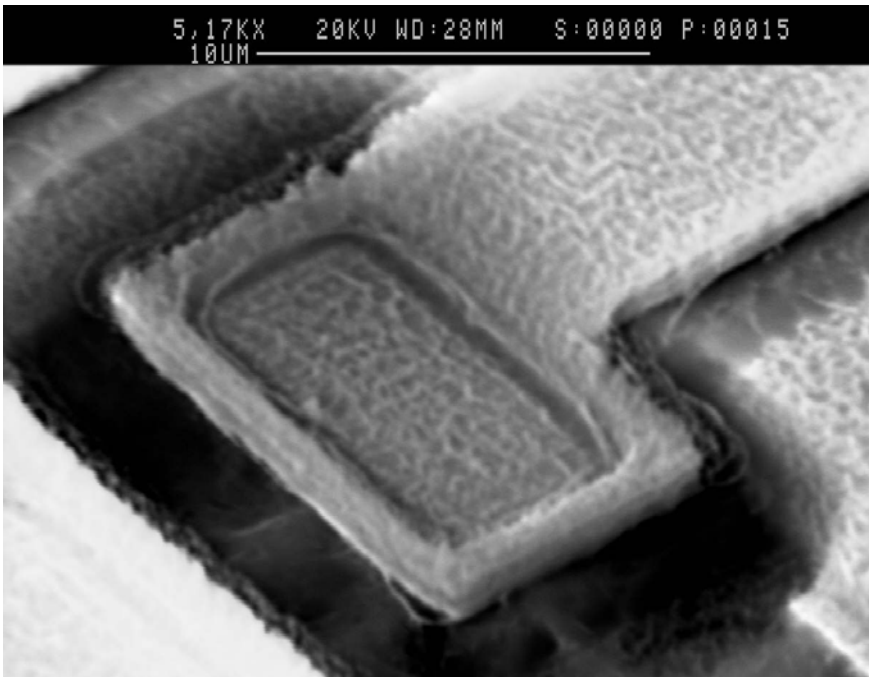

Fig: 3

Mag: 5,170X

S/N: 6

Description: SEM photograph of typical contact window device.

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: July 09, 2018	
TEST REPORT:	DDS-101-19-W	QUANTITY REQUIRED:	8
P.O. NUMBER:	SS139	QUANTITY PROCESSED:	8
DESCRIPTION:	AMPLIFIER MICROCIRCUIT	QUANTITY PASSED:	8
PART NUMBER(S):	LM158	QUANTITY FAILED:	0
MFG PART NUMBER	LM158	QUANTITY SHIPPING:	8
LOT / DATE CODE:	LOT# 20395 WFR# 48 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

QMF 30