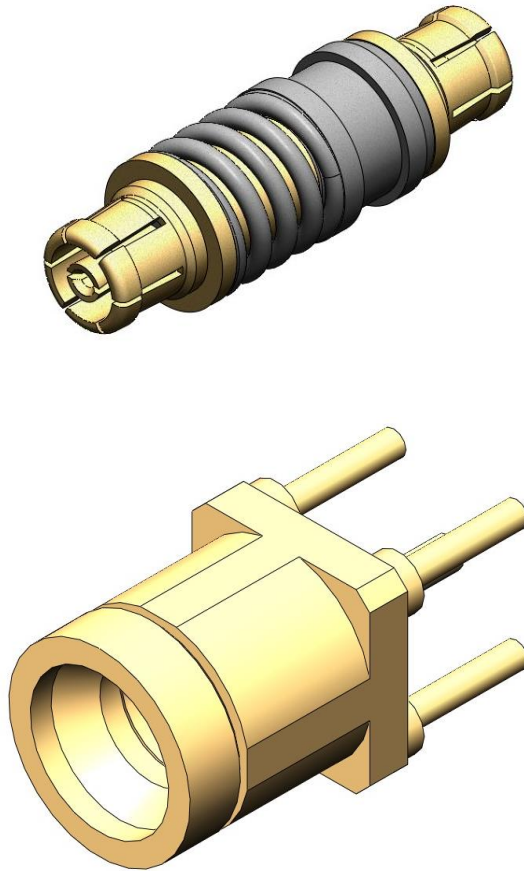




Project Number: Design Qualification Test Report	Tracking Code: 3387412_Report_Rev_2
Requested by: Iris Wang	Date: 6/20/2023
Part #: PRFIA-SMPM-J-J-SP-1/SMPM-PF-P-HG-ST-TH-1	Tech: Keney Chen
Part description: PRFIA / SMPM	Qty to test: 20
Test Start: 6/15/2022	Test Completed: 10/15/2022



DESIGN QUALIFICATION TEST REPORT

PRFIA / SMPM
PRFIA-SMPM-J-J-SP-1/SMPM-PF-P-HG-ST-TH-1

Tracking Code: 3387412_Report_Rev_2	Part #: PRFIA-SMPM-J-J-SP-1/SMPM-PF-P-HG-ST-TH-1
Part description: PRFIA / SMPM	

REVISION HISTORY

DATA	REV.NUM.	DESCRIPTION	ENG
3/1/2023	1	Initial Issue	KC
6/20/2023	2	Update the Mating cycles force and compression force	PC

CERTIFICATION

All instruments and measuring equipment were calibrated to National Institute for Standards and Technology (NIST) traceable standards according to ISO 10012-1 and ANSI/NCSL 2540-1, as applicable.

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SCOPE

To perform the following tests: Design Qualification test. Please see test plan.

APPLICABLE DOCUMENTS

Standards: EIA Publication 364 and MIL-STD.

TEST SAMPLES AND PREPARATION

- 1) All materials were manufactured in accordance with the applicable product specification.
- 2) All test samples were identified and encoded to maintain traceability throughout the test sequences.
- 3) After soldering, the parts to be used for LLCR and IR_DWV testing were cleaned according to TLWI-0001.
- 4) Either an automated cleaning procedure or an ultrasonic cleaning procedure may be used.
- 5) The automated procedure is used with aqueous compatible soldering materials.
- 6) Parts not intended for testing LLCR and IR_DWV are visually inspected and cleaned if necessary.
- 7) Any additional preparation will be noted in the individual test sequences.
- 8) Solder Information: Lead Free
- 9) Samtec Test PCBs used: PCB-109619-TST

FLOWCHARTS

Mating/Unmating/Durability

Note: Check signal and ground LLCR.

Group 1

PRFIA-SMPM-J-J-SP-1
SMPM-PF-P-HG-ST-TH-1
5 Assemblies
FULL DETENT TO BULLET

Note: CYCLE ONLY ONE SIDE OF CONNECTOR. FIXTURE PART SO NO SPRING COMPRESSION OCCURS.

Step	Description
1.	Contact Gaps
2.	LLCR (2)
3.	Mating/Unmating Force (3) - Non Standard
4.	Cycles Quantity = 50 Cycles
5.	Mating/Unmating Force (3) - Non Standard
6.	Cycles Quantity = 50 Cycles
7.	Mating/Unmating Force (3) - Non Standard
8.	Contact Gaps
9.	LLCR (2) Max Delta = 15 mOhm
10.	Thermal Shock (5) - Non Standard
11.	LLCR (2) Max Delta = 15 mOhm

Group 2

PRFIA-SMPM-J-J-SP-1
SMPM-PF-P-HG-ST-TH-1
3 Assemblies
COMPRESSIONS

Step	Description
1.	INTERFACE GAGING MAX INTERFACE DEPTH = 0.003 " Note: MEASURE C1 AND C2 ON PRINT. USE DROP GAGE.
2.	LLCR (2)
3.	COMPRESSION CYCLES COMPRESSION CYCLES = 25 Cycles Note: FULLY COMPRESS ASSEMBLY ALONG CENTER CONTACT AXIS, DISTANCE 0.028 in (0.7112mm).
4.	LLCR (2) Max Delta = 15 mOhm
5.	Thermal Shock (5) - Non Standard
6.	Humidity (1)
7.	LLCR (2) Max Delta = 15 mOhm
8.	INTERFACE GAGING MAX INTERFACE DEPTH = 0.003 " Note: MEASURE C1 AND C2 ON PRINT. USE DROP GAGE.

Group 3

PRFIA-SMPM-J-J-SP-1
SMPM-PF-P-HG-ST-TH-1
5 Assemblies
PULL TO DESTRICT

Step	Description
1.	Connector Pull Note: PULL TO DESTRICT. RETAIN SAMPLES FOR ENGINEERING ANALYSIS. (SEE ATTACHMENT)

Group 4

PRFIA-SMPM-J-J-SP-1
SMPM-PS-P-HG-ST-TH-1
5 Assemblies
SMOOTH BORE TO BULLET

Note: CYCLE ONLY ONE SIDE OF CONNECTOR.

Step	Description
1.	Contact Gaps
2.	Mating/Unmating Force (4) - Non Standard
3.	Cycles Quantity = 250 Cycles
4.	Mating/Unmating Force (4) - Non Standard
5.	Cycles Quantity = 250 Cycles
6.	Mating/Unmating Force (4) - Non Standard
7.	Contact Gaps

Group 5

PRFIA-SMPM-J-J-SP-1
SMPM-PF-P-HG-ST-TH-1
3 Assemblies
COMPRESSION FORCE TEST

Step	Description
1.	COMPRESSION FORCE TEST Note: COMPRESS CONNECTOR AXIALLY. RECORD FORCE REQUIRED TO OVERCOME PRELOAD. ENSURES PART MATES BEFORE COMPRESSION.

- (1) Humidity = EIA-364-31
Test Condition = B (240 Hours)
Test Method = III (+25°C to +65°C @ 90% RH to 98% RH)
Test Exceptions: ambient pre-condition and delete steps 7a and 7b
- (2) LLCR = EIA-364-23
Open Circuit Voltage = 20 mV Max
Test Current = 100 mA Max
- (3) Mating/Unmating Force = Other
DSCC 10019, PER MIL-STD-348A, FULL DETENT
ENGAGE MAX = 8lbs ; DISENGAGE MIN = 3lbs
- (4) Mating/Unmating Force = Other
DSCC 10019, PER MIL-STD-348A, SMOOTH BORE
ENGAGE MAX = 4lbs ; DISENGAGE MIN = 0.5lbs
- (5) Thermal Shock = Other
PER DSCC-10019 AND MIL-STD-202-107
TEST CONDITION B PER DSCC 10019. EXCEPTION: HIGH TEMP. TO BE +165°C

FLOWCHARTS Continued**IR/DWV***Note: 5000 megaohms min IR***Pin-to-Ground****Group 1**

PRFIA-SMPM-J-J-SP-1
SMPM-PF-P-HG-ST-TH-1
2 Assemblies

*Note: 2 Thru Hole connectors and 1
Bullet required to test a full transmission
path.*

Step Description

1. Mated Height
*Note: MEASURE MATED HEIGHT
OF ALL 3 PARTS FULLY MATED.
MEASURE FROM THE PCB SEATING
SURFACE OF ONE MATING PART TO
THE OTHER.*
2. DWV Breakdown (2) - Non Standard

Group 2

PRFIA-SMPM-J-J-SP-1

2 Assemblies

Step Description

1. DWV Breakdown (2) - Non Standard

Group 3

PRFIA-SMPM-J-J-SP-1
SMPM-PF-P-HG-ST-TH-1
2 Assemblies

*Note: 2 Thru Hole connectors and 1
Bullet required to test a full transmission
path.*

Step Description

1. Mated Height
*Note: MEASURE MATED HEIGHT
OF ALL 3 PARTS FULLY MATED.
MEASURE FROM THE PCB SEATING
SURFACE OF ONE MATING PART TO
THE OTHER.*
2. IR (4)
3. DWV at Test Voltage⁽¹⁾ - Non Standard
Test Voltage = 325 V
4. Thermal Shock (5) - Non Standard
5. IR (4)
6. DWV at Test Voltage⁽¹⁾ - Non Standard
Test Voltage = 325 V
7. Humidity (3)
8. Visual Inspection
*Note: VISUAL INSPECTION FOR
HUMIDITY DAMAGE*
9. IR (4)
10. DWV at Test Voltage⁽¹⁾ - Non Standard
Test Voltage = 325 V

(1) DWV at Test Voltage = Other

DSCC-10019 AND MIL-PRF-39012 (PARA 4.6.14)

Test Condition = 1 (Sea Level) ; DWV test voltage is equal to 75% of the lowest breakdown voltage ; Test voltage applied for 60 seconds.

(2) DWV Breakdown = Other

MIL-PRF-39012 (PARA 4.6.14)

RECORD BREAKDOWN VOLTAGE. (DATA ONLY)

(3) Humidity = EIA-364-31

Test Condition = B (240 Hours)

Test Method = III (+25°C to +65°C @ 90% RH to 98% RH)

Test Exceptions: ambient pre-condition and delete steps 7a and 7b

(4) IR = EIA-364-21

Test Condition = 500 Vdc, 2 Minutes Max

(5) Thermal Shock = Other

PER DSCC-10019 AND MIL-STD-202-107

TEST CONDITION B PER DSCC 10019. EXCEPTION: HIGH TEMP. TO BE +165°C

Tracking Code: 3387412_Report_Rev_2	Part #: PRFIA-SMPM-J-J-SP-1/SMPM-PF-P-HG-ST-TH-1
Part description: PRFIA / SMPM	

FLOWCHARTS Continued

Retention

<div> <div>Group 1</div> <div>PRFIA-SMPM-J-J-SP-1</div> <div>10 Assemblies</div> <div>BULLET</div> </div>		<div> <div>Group 2</div> <div>PRFIA-SMPM-J-J-SP-1</div> <div>10 Assemblies</div> <div>BULLET</div> </div>	
Step	Description	Step	Description
1.	Center Contact Retention MIN AXIAL RETENTION = 1.5 lbs <i>Note: PER DSCC 10019</i>	1.	Center Contact Retention <i>Note: PUSH TO DESTRICT. RECORD FORCE.</i>

ATTRIBUTE DEFINITIONS

The following is a brief, simplified description of attributes.

THERMAL SHOCK:

- 1) DSCC 10091 and MIL-STD-202-107
- 2) Test Condition: B (-65°C to +165°C)
- 3) Test Time: ½ hour dwell at each temperature extreme
- 4) Test Duration: Test condition B except 10 cycles instead of 5.
- 5) All test samples are pre-conditioned at ambient.
- 6) All test samples are exposed to environmental stressing in the mated condition.

HUMIDITY:

- 1) Reference document: EIA-364-31, *Humidity Test Procedure for Electrical Connectors*.
- 2) Test Condition B, 240 Hours.
- 3) Method III, +25° C to + 65° C, 90% to 98% Relative Humidity excluding sub-cycles 7a and 7b.
- 4) All samples are pre-conditioned at ambient.
- 5) All test samples are exposed to environmental stressing in the mated condition.

MATING/UNMATING:

- 1) Reference document: EIA-364-13, *Mating and Unmating Forces Test Procedure for Electrical Connectors*.
- 2) The full insertion position was to within 0.003” to 0.004” of the plug bottoming out in the receptacle to prevent damage to the system under test.
- 3) One of the mating parts is secured to a floating X-Y table to prevent damage during cycling.

LLCR:

- 1) EIA-364-23, *Low Level Contact Resistance Test Procedure for Electrical Connectors and Sockets*.
- 2) A computer program, *LLCR 221.exe*, ensures repeatability for data acquisition.
- 3) The following guidelines are used to categorize the changes in LLCR as a result from stressing
 - a. <= +5.0 mOhms: -----Stable
 - b. +5.1 to +10.0 mOhms:-----Minor
 - c. +10.1 to +15.0 mOhms: -----Acceptable
 - d. +15.1 to +50.0 mOhms: -----Marginal
 - e. +50.1 to +1000 mOhms: -----Unstable
 - f. >+1000 mOhms:-----Open Failure

ATTRIBUTE DEFINITIONS Continued

The following is a brief, simplified description of attributes

INSULATION RESISTANCE (IR):

To determine the resistance of insulation materials to leakage of current through or on the surface of these materials when a DC potential is applied.

- 1) PROCEDURE:
 - a. Reference document: EIA-364-21, *Insulation Resistance Test Procedure for Electrical Connectors*.
 - b. Test Conditions:
 - i. Between Adjacent Contacts or Signal-to-Ground
 - ii. Electrification Time 2.0 minutes
 - iii. Test Voltage (500 VDC) corresponds to calibration settings for measuring resistances.
- 2) MEASUREMENTS:
- 3) When the specified test voltage is applied (VDC), the insulation resistance shall not be less than 1000 megohms.

DIELECTRIC WITHSTANDING VOLTAGE (DWV):

To determine if the sockets can operate at its rated voltage and withstand momentary over potentials due to switching, surges, and other similar phenomenon. Separate samples are used to evaluate the effect of environmental stresses so not to influence the readings from arcing that occurs during the measurement process.

- 1) PROCEDURE:
 - a. Reference document: EIA-364-20, *Withstanding Voltage Test Procedure for Electrical Connectors*.
 - b. Test Conditions:
 - i. Between Adjacent Contacts or Signal-to-Ground
 - ii. Barometric Test Condition 1
 - iii. Rate of Application 500 V/Sec
 - iv. Test Voltage (VAC) until breakdown occurs
- 2) MEASUREMENTS/CALCULATIONS
 - a. The breakdown voltage shall be measured and recorded.
 - b. The dielectric withstanding voltage shall be recorded as 75% of the minimum breakdown voltage.
 - c. The working voltage shall be recorded as one-third (1/3) of the dielectric withstanding voltage (one-fourth of the breakdown voltage).

ATTRIBUTE DEFINITIONS Continued

The following is a brief, simplified description of attributes

Retention Force:

- 1) Center contact retention.
 - a. Keep 1.5 lbs for center pin.
 - b. Push force for center pin until destroy.

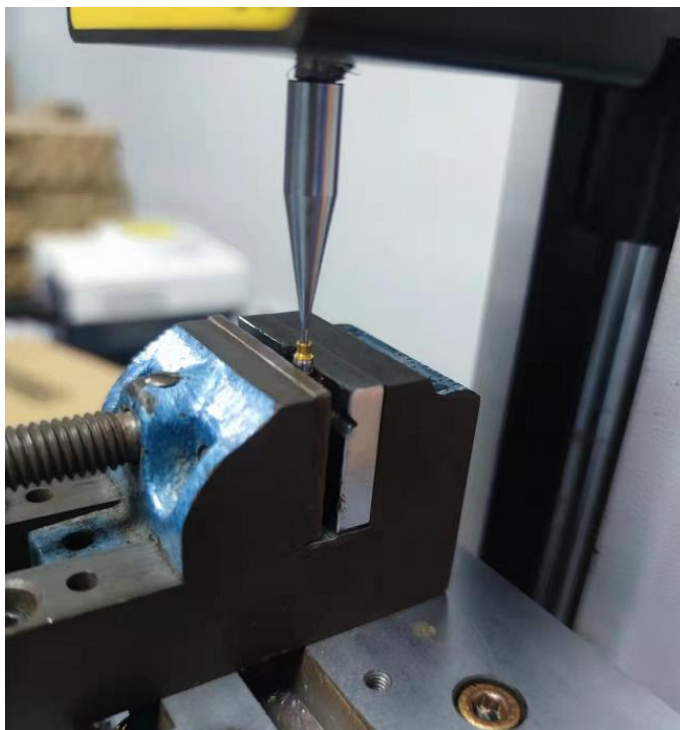


Fig. 1

RESULTS

Mating/Unmating Durability Force

Group 1 mating unmating force

- **Initial**
 - **Mating**
 - **Min** ----- 1.91 lbs
 - **Max** ----- 2.83 lbs
 - **Unmating**
 - **Min** ----- 4.10 lbs
 - **Max** ----- 7.88 lbs
- **After 50 Cycles**
 - **Mating**
 - **Min** ----- 2.06 lbs
 - **Max** ----- 4.57 lbs
 - **Unmating**
 - **Min** ----- 3.22 lbs
 - **Max** ----- 5.94 lbs
- **After 100 Cycles**
 - **Mating**
 - **Min** ----- 2.52 lbs
 - **Max** ----- 4.57 lbs
 - **Unmating**
 - **Min** ----- 3.18 lbs
 - **Max** ----- 5.31 lbs

Group 3 Connector Pull

- **Min** ----- 18.60 lbs
- **Max** ----- 25.17 lbs

Group 4 mating unmating force

- **Initial**
 - **Mating**
 - **Min** ----- 1.89 lbs
 - **Max** ----- 2.13 lbs
 - **Unmating**
 - **Min** ----- 1.58 lbs
 - **Max** ----- 1.83 lbs
- **After 250 Cycles**
 - **Mating**
 - **Min** ----- 1.70 lbs
 - **Max** ----- 1.87 lbs
 - **Unmating**
 - **Min** ----- 1.38 lbs
 - **Max** ----- 1.51 lbs
- **After 500 Cycles**
 - **Mating**
 - **Min** ----- 1.59 lbs
 - **Max** ----- 2.01 lbs
 - **Unmating**
 - **Min** ----- 1.41 lbs
 - **Max** ----- 1.89 lbs

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Part description: PRFIA / SMPM	

RESULTS Continued

Group 5 Compression force

- **Min**----- **2.69 lbs**
- **Max** ----- **2.84 lbs**

Retention force

- **Group1**
 - **Keep 1.5lbs** ----- **Passed**
- **Group2**
 - **Min**----- **5.89 lbs**
 - **Max** ----- **7.10 lbs**

Insulation Resistance minimums, IR

Pin to Ground

- **Initial**
 - **Mated**----- **45000 Meg Ω** ----- **Passed**
- **Thermal Shock**
 - **Mated**----- **45000 Meg Ω** ----- **Passed**
- **Humidity**
 - **Mated**----- **45000 Meg Ω** ----- **Passed**

Dielectric Withstanding Voltage minimums, DWV

- **Test Voltage** ----- **698 VAC**

Pin to Ground

- **Initial DWV** ----- **Passed**
- **Thermal DWV** ----- **Passed**

RESULTS Continued**LLCR Durability****Group 1(5 signal and 5 ground LLCR test points)****Signal Pin**

- Initial ----- 48.08 mOhms Max

Ground Pin

- Initial ----- 17.48 mOhms Max
- After 100 cycles
 - <= +5.0 mOhms----- 10 Points ----- Stable
 - +5.1 to +10.0 mOhms -----0 Points ----- Minor
 - +10.1 to +15.0 mOhms -----0 Points ----- Acceptable
 - +15.1 to +50.0 mOhms -----0 Points ----- Marginal
 - +50.1 to +1000 mOhms-----0 Points ----- Unstable
 - >+1000 mOhms-----0 Points ----- Open Failure
- Thermal Shock
 - <= +5.0 mOhms----- 10 Points ----- Stable
 - +5.1 to +10.0 mOhms -----0 Points ----- Minor
 - +10.1 to +15.0 mOhms -----0 Points ----- Acceptable
 - +15.1 to +50.0 mOhms -----0 Points ----- Marginal
 - +50.1 to +1000 mOhms-----0 Points ----- Unstable
 - >+1000 mOhms-----0 Points ----- Open Failure

Group 2(3 signal and 3 ground LLCR test points)**Signal Pin**

- Initial ----- 47.54 mOhms Max

Ground Pin

- Initial ----- 17.34 mOhms Max
- After 25 cycles
 - <= +5.0 mOhms-----6 Points ----- Stable
 - +5.1 to +10.0 mOhms -----0 Points ----- Minor
 - +10.1 to +15.0 mOhms -----0 Points ----- Acceptable
 - +15.1 to +50.0 mOhms -----0 Points ----- Marginal
 - +50.1 to +1000 mOhms-----0 Points ----- Unstable
 - >+1000 mOhms-----0 Points ----- Open Failure
- humidity
 - <= +5.0 mOhms-----6 Points ----- Stable
 - +5.1 to +10.0 mOhms -----0 Points ----- Minor
 - +10.1 to +15.0 mOhms -----0 Points ----- Acceptable
 - +15.1 to +50.0 mOhms -----0 Points ----- Marginal
 - +50.1 to +1000 mOhms-----0 Points ----- Unstable
 - >+1000 mOhms-----0 Points ----- Open Failure

DATA SUMMARIES**Durability Force****Group 1**

	Initial				After 50 Cycles			
	Mating		Unmating		Mating		Unmating	
	Newtons	Force (Lbs)	Newtons	Force (Lbs)	Newtons	Force (Lbs)	Newtons	Force (Lbs)
Minimum	8.50	1.91	18.24	4.10	9.16	2.06	14.32	3.22
Maximum	16.72	3.76	35.05	7.88	20.33	4.57	26.42	5.94
Average	12.58	2.83	27.07	6.09	15.22	3.42	19.78	4.45
St Dev	3.23	0.73	6.15	1.38	4.32	0.97	4.65	1.05
Count	5	5	5	5	5	5	5	5
	After 100 Cycles							
	Mating		Unmating					
	Newtons	Force (Lbs)	Newtons	Force (Lbs)				
Minimum	11.21	2.52	14.14	3.18				
Maximum	20.33	4.57	23.62	5.31				
Average	16.16	3.63	18.17	4.08				
St Dev	3.69	0.83	3.97	0.89				
Count	5	5	5	5				

Group 4

	Initial				250 Cycles			
	Mating		Unmating		Mating		Unmating	
	Newtons	Force (Lbs)	Newtons	Force (Lbs)	Newtons	Force (Lbs)	Newtons	Force (Lbs)
Minimum	8.41	1.89	7.04	1.58	7.57	1.70	6.14	1.38
Maximum	9.48	2.13	8.12	1.83	8.30	1.87	6.72	1.51
Average	9.05	2.03	7.55	1.70	8.00	1.80	6.48	1.46
St Dev	0.45	0.10	0.49	0.11	0.27	0.06	0.25	0.06
Count	5	5	5	5	5	5	5	5
	500 Cycles							
	Mating		Unmating					
	Newtons	Force (Lbs)	Newtons	Force (Lbs)				
Minimum	7.05	1.59	6.29	1.41				
Maximum	8.92	2.01	8.41	1.89				
Average	8.11	1.82	6.97	1.57				
St Dev	0.68	0.15	0.84	0.19				
Count	5	5	5	5				

DATA SUMMARIES Continued**Group 3**

	Force (lbs)
Minimum	18.60
Maximum	25.17
Average	21.90

Group 5

	Force (lbs)
Minimum	2.69
Maximum	2.84
Average	2.77

**Retention Force:
Keep 1.5 lbs**

	Force (lbs)
Minimum	1.50
Maximum	1.50
Average	1.50

Destroy

	Force (lbs)
Minimum	5.89
Maximum	7.10
Average	6.35

DATA SUMMARIES Continued**INSULATION RESISTANCE (IR):**

	Pin to Ground		
	Mated	Unmated	Unmated
Minimum	PRFIA/SMPM	PRFIA	SMPM
Initial	45000	45000	45000
Thermal	45000	45000	45000
Humidity	45000	45000	45000

DIELECTRIC WITHSTANDING VOLTAGE (DWV):

Voltage Rating Summary	
Minimum	PRFIA/SMPM
Break Down Voltage	931
Test Voltage	698
Working Voltage	233

Pin to Ground	
Initial Test Voltage	Passed
After Thermal Test Voltage	Passed
After Humidity Test Voltage	Passed

DATA SUMMARIES Continued**LLCR Durability:**

- 1) A total of 5 signal and 5 ground points were measured.
- 2) EIA-364-23, *Low Level Contact Resistance Test Procedure for Electrical Connectors and Sockets*.
- 3) A computer program, *LLCR 221.exe*, ensures repeatability for data acquisition.
- 4) The following guidelines are used to categorize the changes in LLCR as a result from stressing.
 - a. $\leq +5.0$ mOhms: -----Stable
 - b. $+5.1$ to $+10.0$ mOhms: -----Minor
 - c. $+10.1$ to $+15.0$ mOhms: -----Acceptable
 - d. $+15.1$ to $+50.0$ mOhms: -----Marginal
 - e. $+50.1$ to $+1000$ mOhms: -----Unstable
 - f. $>+1000$ mOhms: -----Open Failure

Group 1

LLCR Measurement Summaries by Pin Type				
Date	7/15/2022	7/20/2022	8/1/2022	
Room Temp (Deg C)	23	23	23	
Rel Humidity (%)	54	54	54	
Technician	Peter Chen	Peter Chen	Peter Chen	
mOhm values	Actual Initial	Delta 100 Cycles	Delta Therm Shck	Delta
Pin Type 1: Ground				
Average	16.45	1.79	3.50	
St. Dev.	0.64	0.28	0.60	
Min	15.58	1.53	2.85	
Max	17.48	2.25	4.60	
Summary Count	5	5	5	
Total Count	5	5	5	
Pin Type 2: Signal				
Average	47.46	0.16	1.07	
St. Dev.	0.43	0.11	0.92	
Min	46.94	0.04	0.29	
Max	48.08	0.36	2.80	
Summary Count	5	5	5	
Total Count	5	5	5	

LLCR Delta Count by Category						
	Stable	Minor	Acceptable	Marginal	Unstable	Open
mOhms	≤ 5	$>5 \text{ \& } \leq 10$	$>10 \text{ \& } \leq 15$	$>15 \text{ \& } \leq 50$	$>50 \text{ \& } \leq 1000$	>1000
100 Cycles	10	0	0	0	0	0
Therm Shck	10	0	0	0	0	0

DATA SUMMARIES Continued**Group 2**

LLCR Measurement Summaries by Pin Type				
Date	7/15/2022	7/19/2022		8/15/2022
Room Temp (Deg C)	23	23		23
Rel Humidity (%)	54	53		54
Technician	Peter Chen	Peter Chen		Peter Chen
mOhm values	Actual Initial	Delta 25 Cycles	Delta	Delta Humidity
Pin Type 1: Ground				
Average	17.21	0.35		3.85
St. Dev.	0.14	0.36		0.85
Min	17.01	0.04		2.65
Max	17.34	0.86		4.48
Summary Count	3	3		3
Total Count	3	3		3
Pin Type 2: Signal				
Average	47.23	0.06		1.95
St. Dev.	0.25	0.01		1.14
Min	46.92	0.05		0.70
Max	47.54	0.08		3.46
Summary Count	3	3		3
Total Count	3	3		3

LLCR Delta Count by Category						
	Stable	Minor	Acceptable	Marginal	Unstable	Open
mOhms	<=5	>5 & <=10	>10 & <=15	>15 & <=50	>50 & <=1000	>1000
25 Cycles	6	0	0	0	0	0
Humidity	6	0	0	0	0	0

EQUIPMENT AND CALIBRATION SCHEDULES**Equipment #:** HZ-TCT-01**Description:** Normal force analyzer**Manufacturer:** Mecmesin Multitester**Model:** Mecmesin Multitester 2.5-i**Serial #:** 08-1049-04**Accuracy:** Last Cal: 4/26/2022, Next Cal: 4/25/2023**Equipment #:** HZ-THC-01**Description:** Humidity transmitter**Manufacturer:** Thermtron**Model:** SM-8-8200**Serial #:** 38846**Accuracy:** Last Cal: 2/28/2022, Next Cal: 2/27/2023**Equipment #:** HZ-TSC-01**Description:** Vertical Thermal Shock Chamber**Manufacturer:** Cincinnatti Sub Zero**Model:** VTS-3-6-6-SC/AC**Serial #:** 10-VT14994**Accuracy:** See Manual

... Last Cal: 06/28/2022, Next Cal: 06/27/2023

Equipment #: HZ-HPM-01**Description:** NA9636H**Manufacturer:** Ainuo**Model:** 6031A**Serial #:** 089601091**Accuracy:** Last Cal: 3/7/2022, Next Cal: 3/6/2023