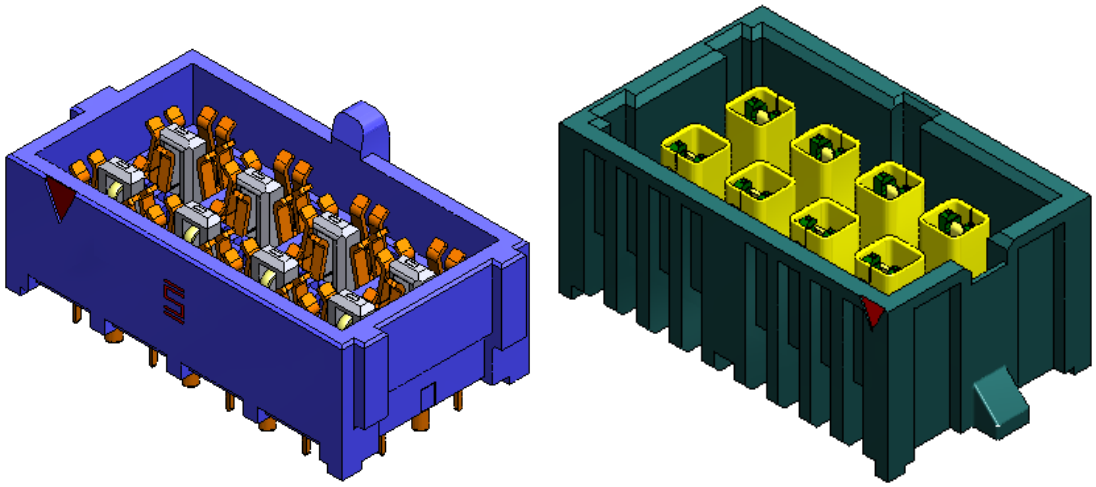
Project Number: IX5	Tracking Code: TC0904—2186_Report Rev 1		
Requested by: Kevin Meredith	Date: 10/8/2009	Product Rev: 3	
Part #: IJ5-08-05.0-L-D-1-GP & IP5-08-05.0-L-D-1	Lot #: 1	Tech: Rodney Riley Gary Lomax	Eng: Troy Cook
Part Description: IJ5 / IP5			Qty to test: 150
Test Start: 01/19/2009	Test Completed: 3/24/2009		



DESIGN VERIFICATION TEST REPORT

PART DESCRIPTION

IJ5-08-05.0-L-D-1-GP & IP5-08-05.0-L-D-1

CERTIFICATION

All instruments and measuring equipment were calibrated to National Institute for Standards and Technology (NIST) traceable standards according to IS0 10012-l and ANSI/NCSL 2540-1, as applicable.

SCOPE

To perform the following tests: Design Verification Test

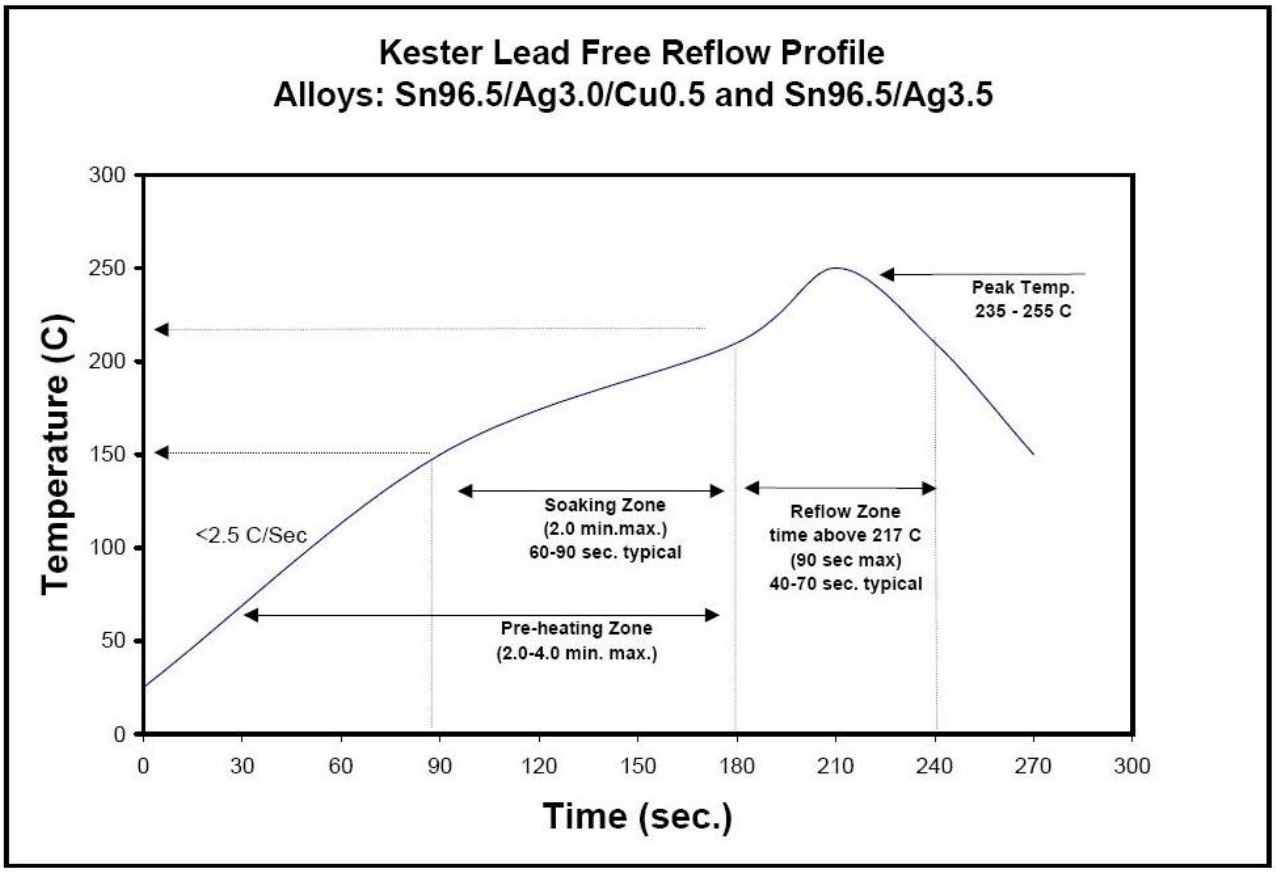
APPLICABLE DOCUMENTS

Standards: EIA Publication 364

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 DWV/IR 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 DWV/IR 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) Re-Flow Time/Temp: See accompanying profile.
10) Samtec Test PCBs used: PCB-101279-TST-XX

TYPICAL OVEN PROFILE (Soldering Parts to Test Boards)



FLOWCHARTS

Gas Tight

TEST STEP	GROUP A 192 Points (min) Signals	GROUP B 80 Points (min) Shields/Grounds
01	LLCR-1	LLCR-1
02	Gas Tight	Gas Tight
03	LLCR-2	LLCR-2

Gas Tight = EIA-364-36A

LLCR = EIA-364-23, LLCR

use Keithley 580 in the dry circuit mode, 10 mA Max

Mating/Unmating/Gaps/Normal Force/Deflection Force

TEST STEP	GROUP A 10 Boards Center Conductor	GROUP B1 Individual Contacts (30) min Center Conductor	GROUP B2 Individual Contacts (30) min Center Conductor
01	Contact Gaps	Setup Approve	Setup Approve
02	Mating / Unmating	Normal Force	Thermal Aging (Mated)
03	Data Review	Data Review	Normal Force
04	100 Cycles		
05	Mating / Unmating		
06	Contact Gaps		
07	Data Review		
08	Thermal Aging (Mated)		
09	Mating / Unmating		
10	Contact Gaps		
11	Data Review		
12	Humidity (Mated)		
13	Contact Gaps		
14	Mating / Unmating		

Thermal Aging = EIA-364-17, Test Condition 4, 105 deg C;

Time Condition 'B' (250 hours)

Humidity =EIA-364-31, Test Condition B (240 Hours)

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

ambient pre-condition and delete steps 7a and 7b

Mating/Un-Mating Forces = EIA-364-13

Normal Force = EIA-364-04

(Perpendicular) displacement Force = 12.7 mm/min +/- 6 mm/min

Spec is 50 N @ 1 mm displacement

Contact Gaps/Height - No standard method. Usually measured optically

IR & DWV

TEST STEP	GROUP A1 2 Mated Sets Break Down	GROUP A2 2 Unmated of Part # Being Tested Break Down	GROUP A3 2 Unmated of Mating Part # Break Down	GROUP B 2 Mated Sets
01	DWV/Break Down Voltage	DWV/Break Down Voltage	DWV/Break Down Voltage	IR & DWV at test voltage (on both mated sets and on each connector unmated)
02				Thermal Aging (both sets unmated)
03				IR & DWV at test voltage (on both mated sets and on each connector unmated)
04				Cyclic Humidity (both sets unmated)
05				IR & DWV at test voltage (on both mated sets and on each connector unmated)

*** - DWV on group B to be performed at Test Voltage**
DWV test voltage is equal to 75% of the lowest break down voltage from group A1, A2 or A3
Thermal Aging = EIA-364-17, Test Condition 4 (105 °C)
Time Condition 'B' (250 hours)
Humidity = EIA-364-31, Test Condition B (240 Hours)
and Method III (+25° C to +65° C @ 90%RH to 98% RH)
ambient pre-condition and delete steps 7a and 7b
IR = EIA-364-21
DWV = EIA-364-20

Durability/Thermal Age/Cyclic Humidity

TEST STEP	GROUP A 192 Points Signals	Group B 80 Points Sheilds/Grounds
01	LLCR-1	LLCR-1
02	Data Review	Data Review
03	100 Cycles	100 Cycles
04	Clean Mating Interface	Clean Mating Interface
05	LLCR-2	LLCR-2
06	Data Review	Data Review
07	Thermal Age	Thermal Age
08	LLCR-3	LLCR-3
09	Data Review	Data Review
10	Cyclic Humidity	Cyclic Humidity
11	LLCR-4	LLCR-4

Thermal Aging = EIA-364-17, Test Condition 4, 105 deg C;
Time Condition 'B' (250 hours)
Humidity =EIA-364-31, Test Condition B (240 Hours)
and Method III (+25 ° C to +65 ° C @ 90%RH to 98% RH)
ambient pre-condition and delete steps 7a and 7b
LLCR = EIA-364-23, LLCR
use Keithley 580 in the dry circuit mode, 10 mA Max

Current Carrying Capacity

3 Mated Assemblies Each

TEST STEP	GROUP A 3 Mated Assembies Center Conductor 1 Contact powered, shield grounded	GROUP B 3 Mated Assembies Center Conductor 2 Contacts powered, shields grounded	GROUP C 3 Mated Assembies Center Conductor 3 Contacts powered, shields grounded	GROUP D 3 Mated Assembies Center Conductor 4 Contacts powered, shields grounded	GROUP E 3 Mated Assembies Center Conductor All Contacts powered, shields grounded
01	CCC	CCC	CCC	CCC	CCC

(TIN PLATING) - Tabulate calculated current at RT, 65° C, 75° C and 95° C after derating 20% and based on 105° C

(GOLD PLATING) - Tabulate calculated current at RT, 85° C, 95° C and 115° C after derating 20% and based on 125° C

CCC, Temp rise = EIA-364-70

Current Carrying Capacity

3 Mated Assemblies Each

TEST STEP	GROUP A 3 Mated Assembies 1 Shield Powered, Center Conductor Grounded	GROUP B 3 Mated Assembies 2 Shields Powered, Center Conductor Grounded	GROUP C 3 Mated Assembies 3 Shields Powered, Center Conductor Grounded	GROUP D 3 Mated Assembies 4 Shields Powered, Center Conductor Grounded	GROUP E 3 Mated Assembies All Shields Powered, Center Conductor Grounded
01	CCC	CCC	CCC	CCC	CCC

(TIN PLATING) - Tabulate calculated current at RT, 65° C, 75° C and 95° C after derating 20% and based on 105° C

(GOLD PLATING) - Tabulate calculated current at RT, 85° C, 95° C and 115° C after derating 20% and based on 125° C

CCC, Temp rise = EIA-364-70

ATTRIBUTE DEFINITIONS

The following is a brief, simplified description of attributes.

THERMAL:

1) EIA-364-17, *Temperature Life with or without Electrical Load Test Procedure for Electrical Connectors.*
2) Test Condition 4 at 105° C.
3) Test Time Condition B for 250 hours.
4) All test samples are pre-conditioned at ambient.
5) 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.

TEMPERATURE RISE (Current Carrying Capacity, CCC):

1) EIA-364-70, *Temperature Rise versus Current Test Procedure for Electrical Connectors and Sockets*.
2) When current passes through a contact, the temperature of the contact increases as a result of I^2R (resistive) heating.
3) The number of contacts being investigated plays a significant part in power dissipation and therefore temperature rise.
4) The size of the temperature probe can affect the measured temperature.
5) Copper traces on PC boards will contribute to temperature rise:
    a. Self heating (resistive)
    b. Reduction in heat sink capacity affecting the heated contacts
6) A de-rating curve, usually 20%, is calculated.
7) Calculated de-rated currents at three temperature points are reported:
    a. Ambient
    b. 80^{o} C
    c. 95^{o} C
    d. 115^{o} C
8) Typically, neighboring contacts (in close proximity to maximize heat build up) are energized.
9) The thermocouple (or temperature measuring probe) will be positioned at a location to sense the maximum temperature in the vicinity of the heat generation area.
10) A computer program, *TR 803.exe*, ensures accurate stability for data acquisition.
11) Hook-up wire cross section is larger than the cross section of any connector leads/PC board traces, jumpers, etc.
12) Hook-up wire length is longer than the minimum specified in the referencing standard.

CONTACT GAPS:

1) Gaps above the surrounding plastic surface were measured before and after stressing the contacts (e.g. thermal aging, mechanical cycling, etc.).
2) Typically, all contacts on the connector are measured.

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.

NORMAL FORCE (FOR CONTACTS TESTED IN THE HOUSING):

1) Reference document: EIA-364-04, *Normal Force Test Procedure for Electrical Connectors*.
2) The contacts shall be tested in the connector housing.
3) If necessary, a "window" shall be made in the connector body to allow a probe to engage and deflect the contact at the same attitude and distance (plus 0.05 mm [0.002"]) as would occur in actual use.
4) The connector housing shall be placed in a holding fixture that does not interfere with or otherwise influence the contact force or deflection.
5) Said holding fixture shall be mounted on a floating, adjustable, X-Y table on the base of the Dillon TC^2, computer controlled test stand with a deflection measurement system accuracy of 5.0 µm (0.0002").
6) The nominal deflection rate shall be 5 mm (0.2")/minute.
7) Unless otherwise noted a minimum of five contacts shall be tested.
8) The force/deflection characteristic to load and unload each contact shall be repeated five times.
9) The system shall utilize the TC^2 software in order to acquire and record the test data.
10) The permanent set of each contact shall be measured within the TC^2 software.
11) The acquired data shall be graphed with the deflection data on the X-axis and the force data on the Y-axis and a print out will be stored with the Tracking Code paperwork.

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 5000 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).

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 +2000 mOhms: ---------- Unstable
    f. >+2000 mOhms:---------- Open Failure

GAS TIGHT:

To provide method for evaluating the ability of the contacting surfaces in preventing penetration of harsh vapors which might lead to oxide formation that may degrade the electrical performance of the contact system.

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 +2000 mOhms: ---------- Unstable
    f. >+2000 mOhms:---------- Open Failure
4) Procedure:
    a. Reference document: EIA-364-36, *Test Procedure for Determination of Gas-Tight Characteristics for Electrical Connectors, Sockets and/or Contact Systems*.
    b. Test Conditions:
        i. Class II--- Mated pairs of contacts assembled to their plastic housings.
        ii. Reagent grade Nitric Acid shall be used of sufficient volume to saturate the test chamber
        iii. The ratio of the volume of the test chamber to the surface area of the acid shall be 10:1.
        iv. The chamber shall be saturated with the vapor for at least 15 minutes before samples are added.
        v. Exposure time, 55 to 65 minutes.
        vi. The samples shall be no closer to the chamber walls than 1 inches and no closer to the surface of the acid than 3 inches.
        vii. The samples shall be dried after exposure for a minimum of 1 hour.
        viii. Drying temperature 50^{o} C
        ix. The final LLCR shall be conducted within 1 hour after drying.

RESULTS

Signal Temperature Rise, CCC at a 20% de-rating

- **CCC for a 30°C Temperature Rise----------2.36A per contact with 2 adjacent contacts powered**
- **CCC for a 30°C Temperature Rise----------1.96A per contact with 4 adjacent contacts powered**
- **CCC for a 30°C Temperature Rise----------1.63A per contact with 6 adjacent contacts powered**
- **CCC for a 30°C Temperature Rise----------1.61A per contact with 8 adjacent contacts powered**
- **CCC for a 30°C Temperature Rise----------1.33A per contact with all adjacent contacts powered**

Ground Temperature Rise, CCC at a 20% de-rating

- **CCC for a 30°C Temperature Rise----------4.4A per ground with 2 adjacent grounds powered**
- **CCC for a 30°C Temperature Rise----------3.5A per ground with 4 adjacent grounds powered**
- **CCC for a 30°C Temperature Rise----------3.0A per ground with 6 adjacent grounds powered**
- **CCC for a 30°C Temperature Rise----------2.8A per ground with 8 adjacent grounds powered**
- **CCC for a 30°C Temperature Rise----------2.3A per ground with all adjacent grounds powered**

IJ5 Signal Gaps

- **Initial**
  - **Min----------.0423”**
  - **Max ----------.0493”**
- **After 100 Cycles**
  - **Min----------.0502”**
  - **Max ----------.0561”**
- **Thermal**
  - **Min----------.0439”**
  - **Max ----------.0470”**
- **Humidity**
  - **Min----------.0400”**
  - **Max ----------.0479”**

Mating – Unmating Forces

- **Initial**
  - **Mating**
    - **Min ----------15.49 lbf**
    - **Max----------26.40 lbf**
  - **Unmating**
    - **Min ---------- 7.59 lbf**
    - **Max----------11.00 lbf**
- **After 25 Cycles**
  - **Mating**
    - **Min ----------13.21 lbf**
    - **Max----------20.80 lbf**
  - **Unmating**
    - **Min ---------- 7.69 lbf**
    - **Max----------12.60 lbf**
- **After 50 Cycles**
  - **Mating**
    - **Min ----------12.97 lbf**
    - **Max----------24.20 lbf**
  - **Unmating**
    - **Min ---------- 7.81 lbf**
    - **Max----------13.90 lbf**
- **After 75 Cycles**
  - **Mating**
    - **Min ----------12.94 lbf**
    - **Max----------24.30 lbf**
  - **Unmating**
    - **Min ---------- 7.75 lbf**
    - **Max----------15.40 lbf**
- **After 100 Cycles**
  - **Mating**
    - **Min ----------12.76 lbf**
    - **Max----------25.90 lbf**
  - **Unmating**
    - **Min ---------- 7.69 lbf**
    - **Max----------16.50 lbf**
- **Thermal**
  - **Mating**
    - **Min ----------11.45 lbf**
    - **Max----------17.10 lbf**
  - **Unmating**
    - **Min ---------- 7.39 lbf**
    - **Max----------12.00 lbf**
- **Humidity**
  - **Mating**
    - **Min ---------- 9.12 lbf**
    - **Max----------13.70 lbf**
  - **Unmating**
    - **Min ---------- 7.09 lbf**
    - **Max----------11.40 lbf**

IJ5 Shield Normal Force at .006" deflection

- **Initial**
  - **Min ---------- 154.30 g Set -------.0005"**
  - **Max ---------- 179.60 g Set -------.0009"**
- **Thermal**
  - **Min ---------- 173.40 g**
  - **Max ---------- 213.80 g**

IJ5 Signals Normal Force at .0105" deflection

- **Initial**
  - **Min ----------76.00 g Set -------.0001"**
  - **Max ----------94.10 g Set -------.0007"**
- **Thermal**
  - **Min ----------74.30 g**
  - **Max ----------93.80 g**

Insulation Resistance minimums, IR

- **Initial**
  - **Mated ----------\>100,000 Meg Ω ---------- Pass**
  - **Unmated ----------\>100,000 Meg Ω ---------- Pass**
- **Thermal**
  - **Mated ----------\>100,000 Meg Ω ---------- Pass**
  - **Unmated ----------\>100,000 Meg Ω ---------- Pass**
- **Humidity**
  - **Mated ---------- 35,000 Meg Ω ---------- Pass**
  - **Unmated ----------\>100,000 Meg Ω ---------- Pass**

Dielectric Withstanding Voltage minimums, DWV

- **Minimums**
  - **Breakdown Voltage ----------800 VAC**
  - **Test Voltage ----------600 VAC**
  - **Working Voltage ----------200 VAC**
- **Initial DWV ----------Passed**
- **Thermal DWV----------Passed**
- **Humidity DWV----------Passed**

LLCR Signal Durability (192 LLCR test points)

- **Initial ---------- 23.5 mOhms Max**
- **Durability, 100 Cycles**
  - **<= +5.0 mOhms ---------- 192 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 +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
- **Thermal**
  - **<= +5.0 mOhms ---------- 192 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 +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
- **Humidity**
  - **<= +5.0 mOhms ---------- 181 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 11 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**

LLCR Ground Durability (80 LLCR test points)

- **Initial ---------- 5.6 mOhms Max**
- **Durability, 100 Cycles**
  - **<= +5.0 mOhms ---------- 80 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 +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
- **Thermal**
  - **<= +5.0 mOhms ---------- 80 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 +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
- **Humidity**
  - **<= +5.0 mOhms ---------- 80 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 +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**

LLCR Signal Gas Tight (192 LLCR test points)

- **Initial ---------- 22.8 mOhms Max**
- **Gas-Tight**
  - **<= +5.0 mOhms ---------- 190 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 2 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**

LLCR Ground Gas Tight (80 LLCR test points)

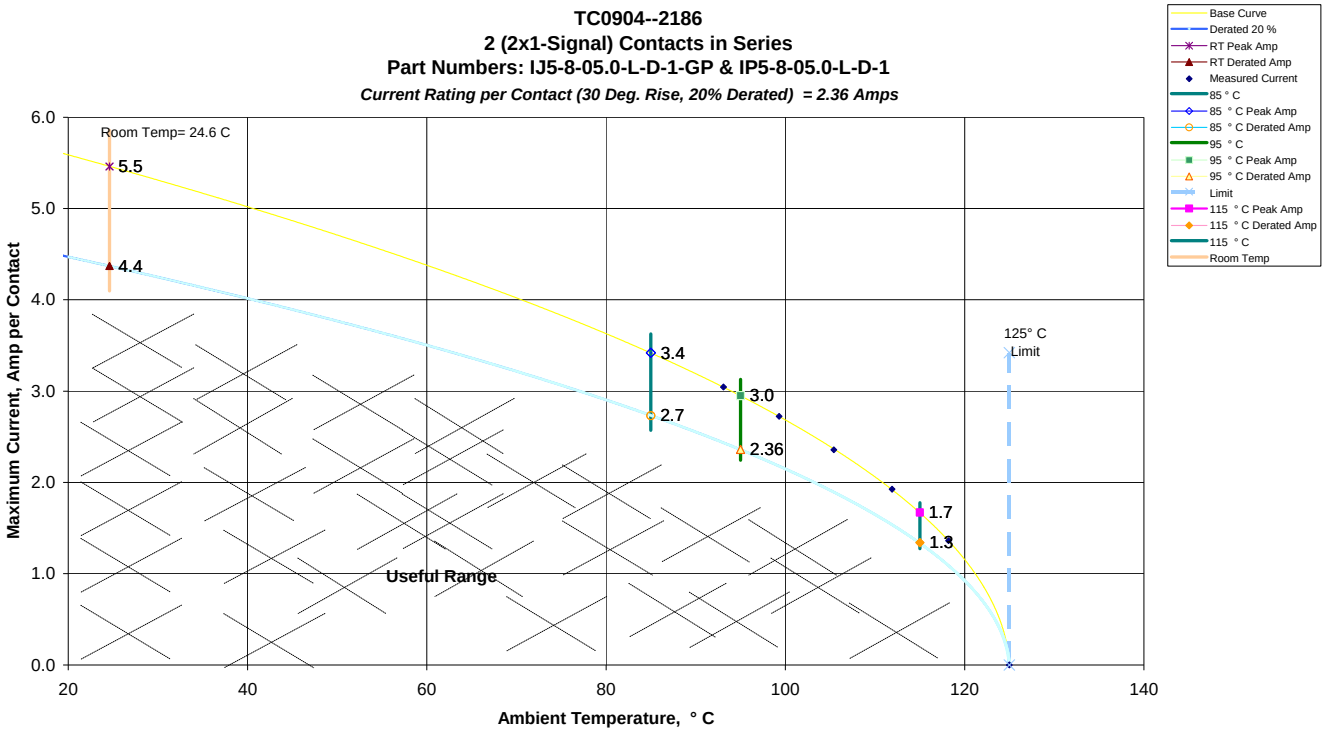
- **Initial ---------- 7.5 mOhms Max**
- **Gas-Tight**
  - **<= +5.0 mOhms ---------- 80 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 0 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**

DATA SUMMARIES

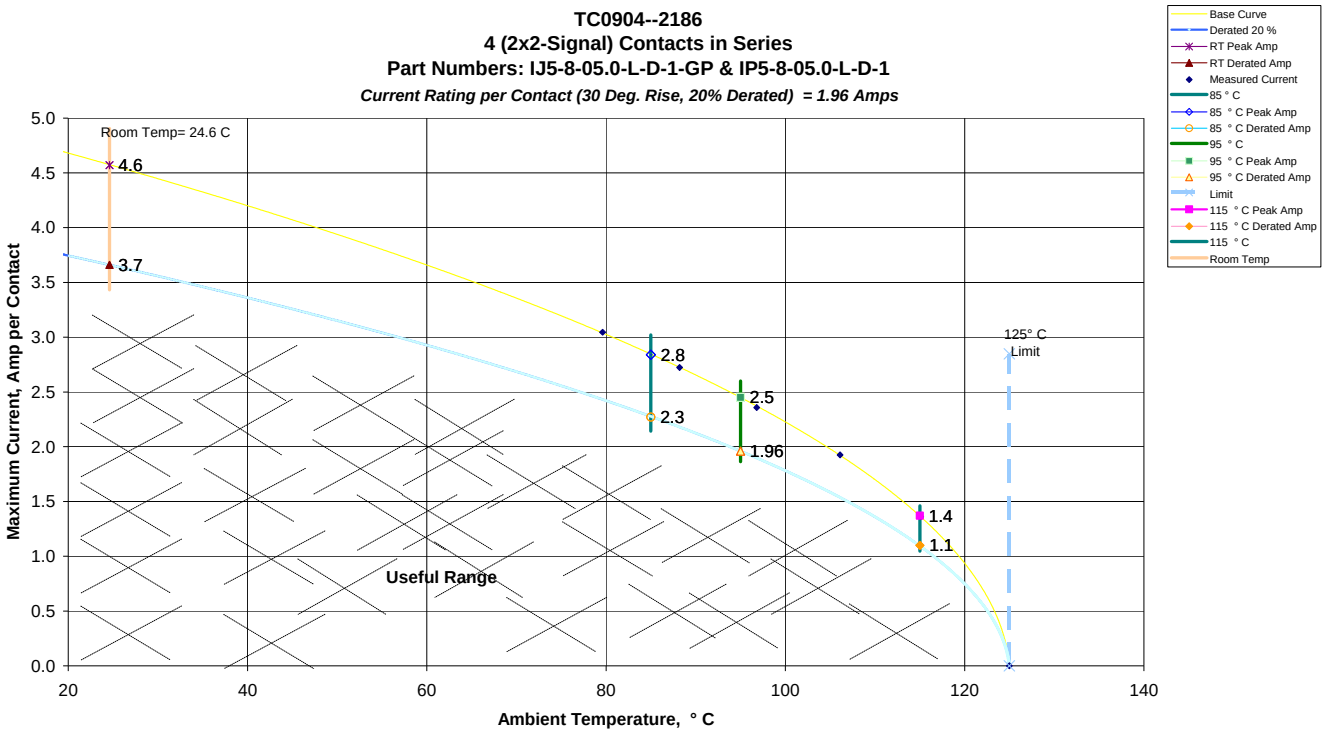
TEMPERATURE RISE (Current Carrying Capacity, CCC):

1) High quality thermocouples whose temperature slopes track one another were used for temperature monitoring.
2) The thermocouples were placed at a location to sense the maximum temperature generated during testing.
3) Temperature readings recorded are those for which three successive readings, 15 minutes apart, differ less than 1° C (computer controlled data acquisition).
4) Adjacent signal contacts were powered:

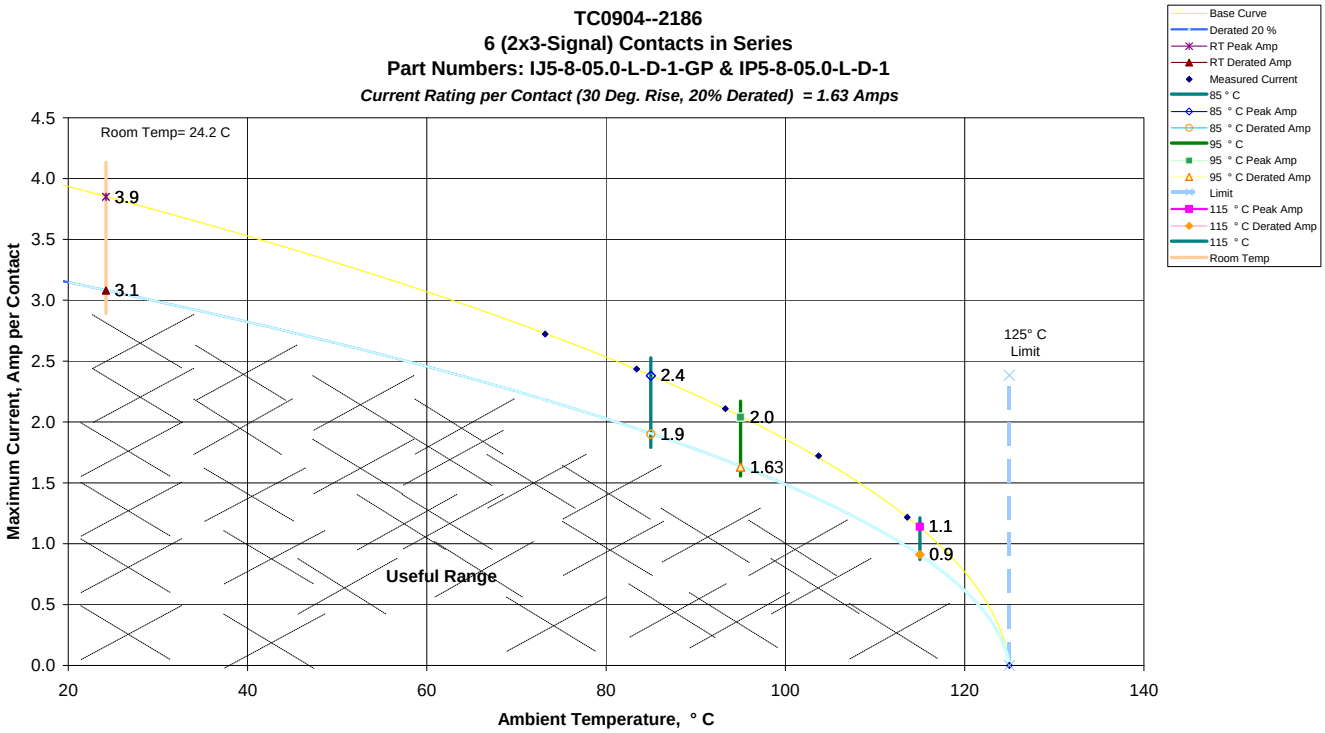
    a. Linear configuration with 2 adjacent conductors/contacts powered



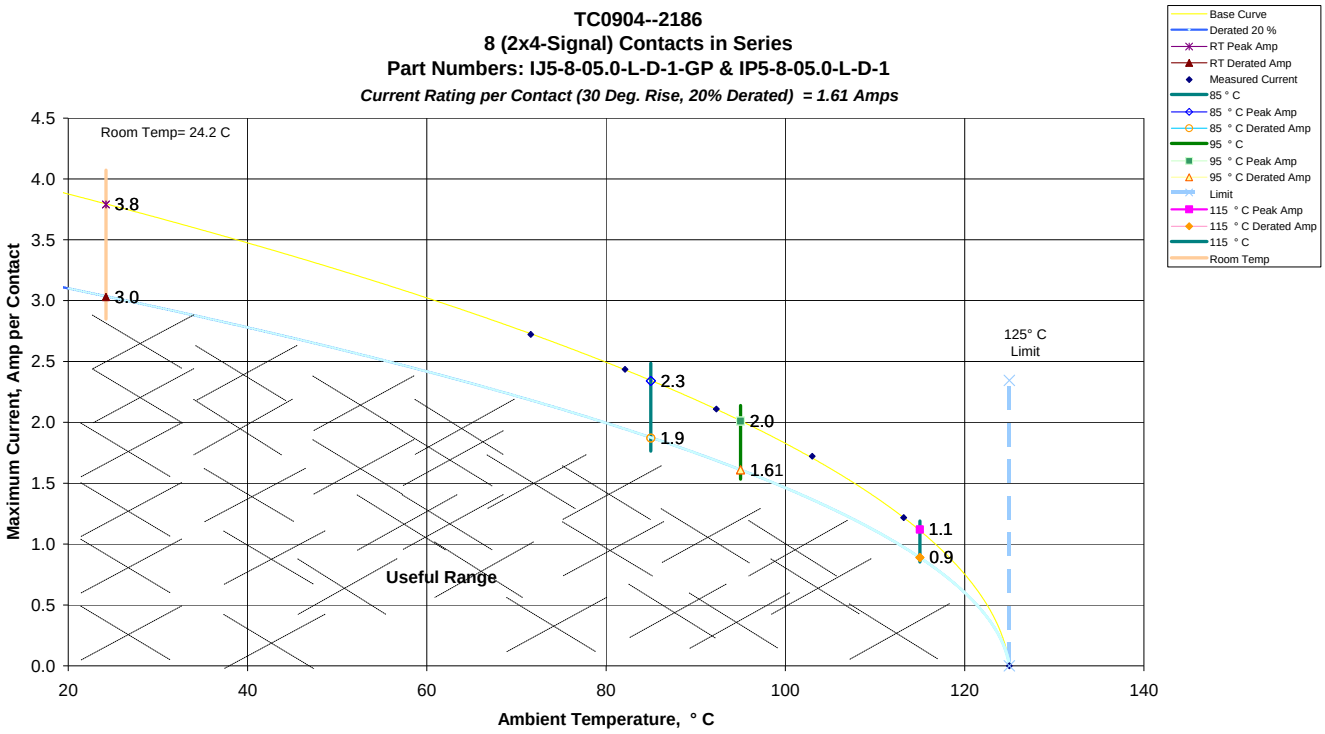
b. Linear configuration with 4 adjacent conductors/contacts powered



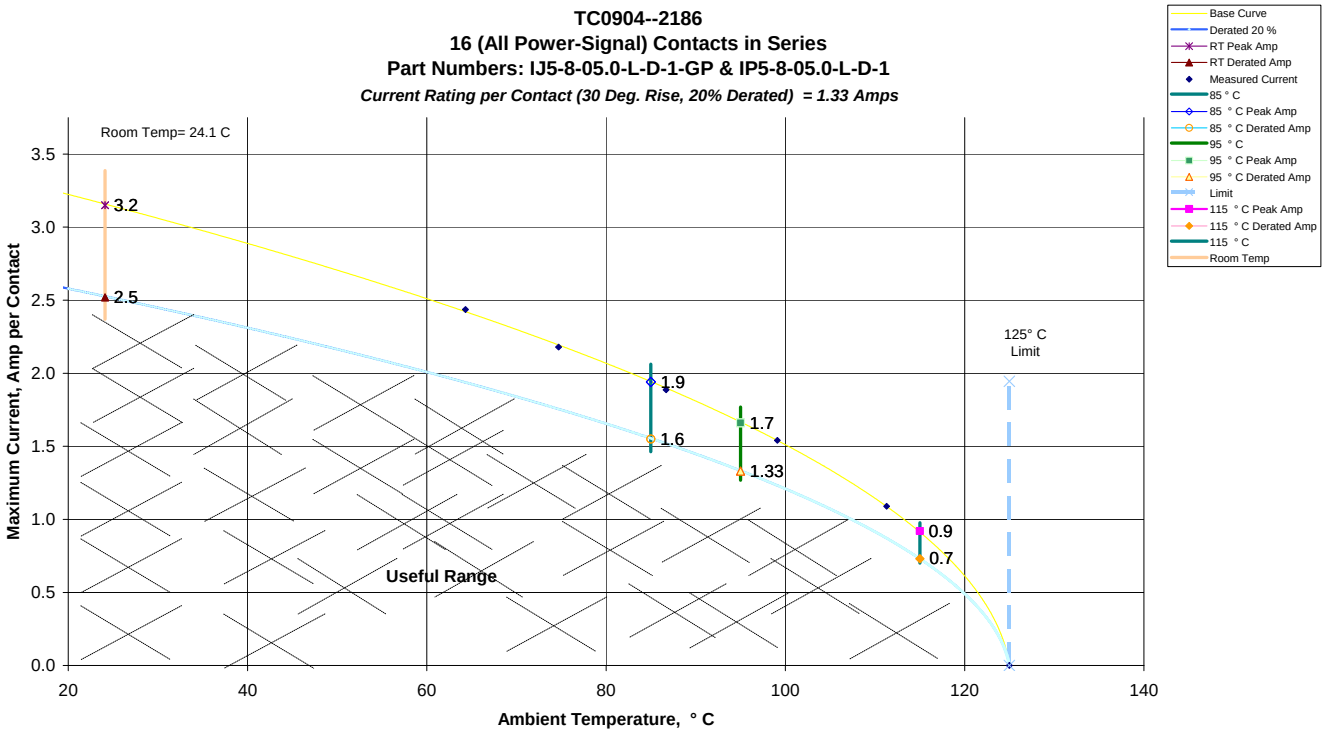
c. Linear configuration with 6 adjacent conductors/contacts powered



d. Linear configuration with 8 adjacent conductors/contacts powered



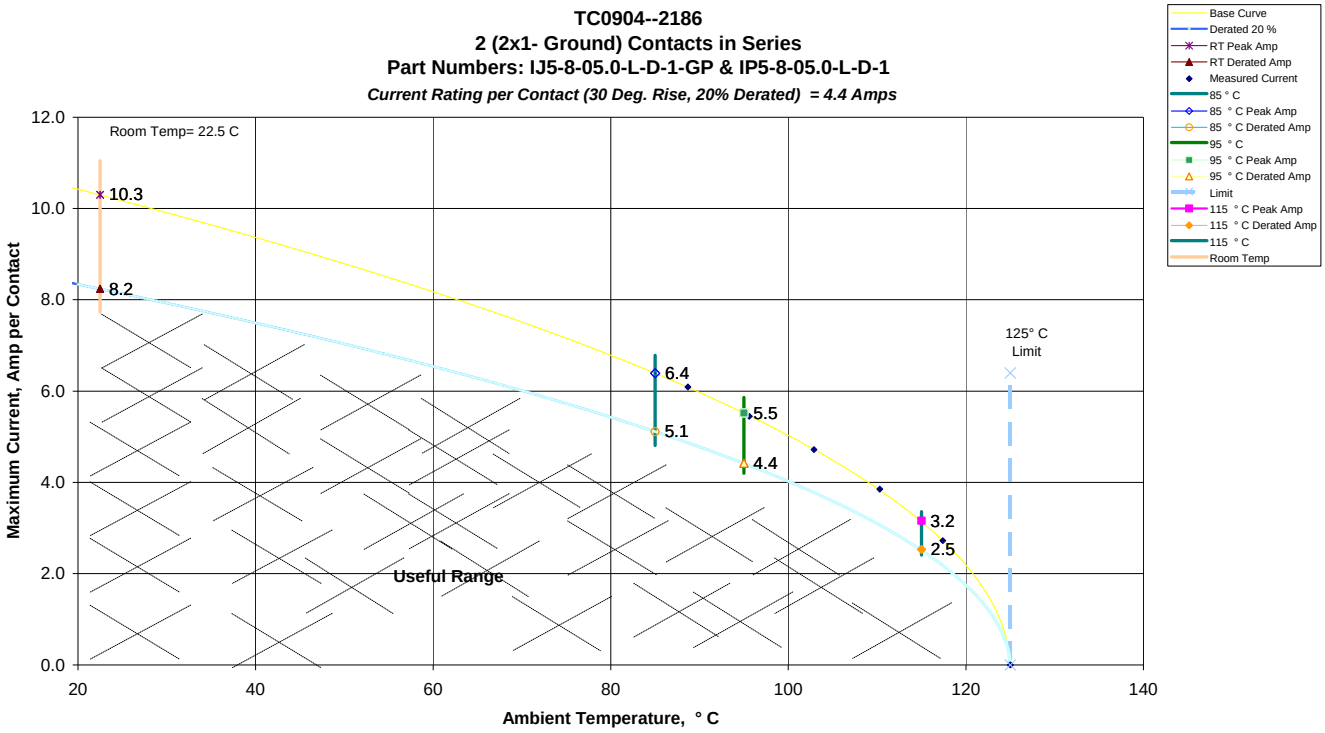
e. Linear configuration with all adjacent conductors/contacts powered



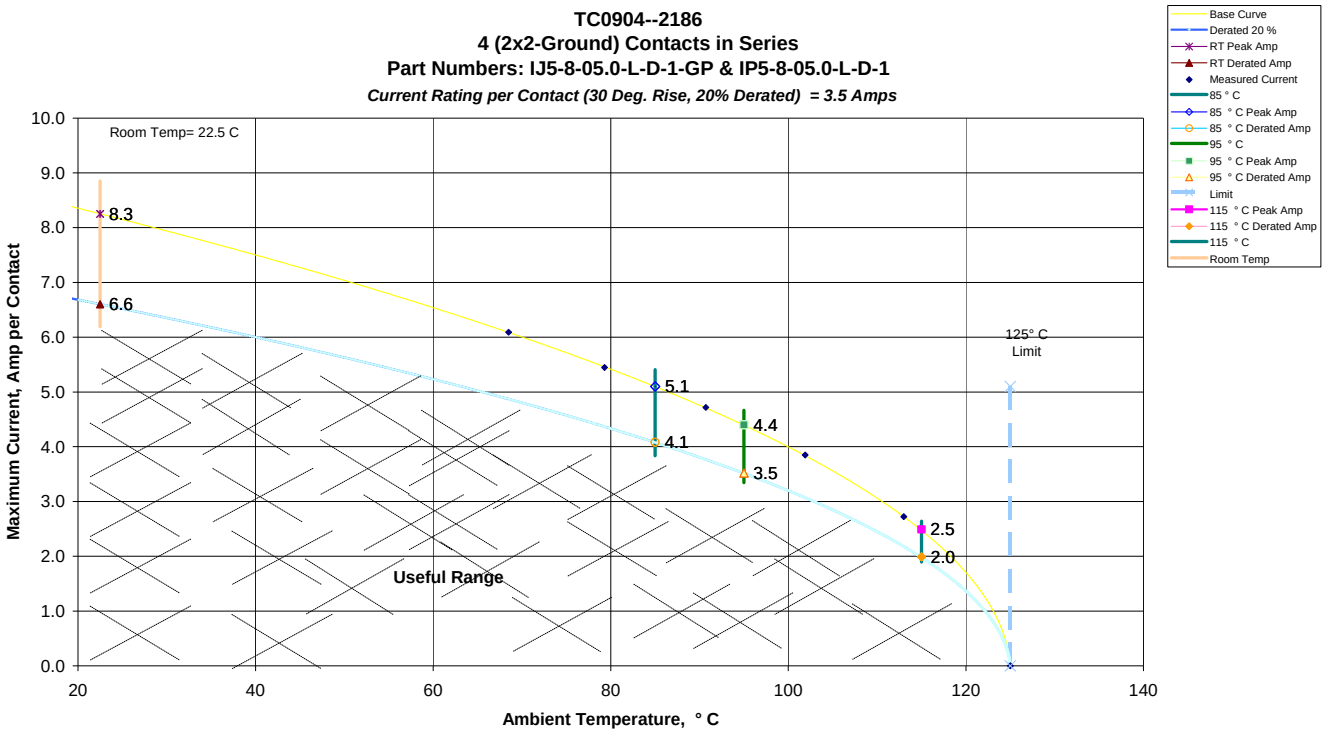
TEMPERATURE RISE (Current Carrying Capacity, CCC):

5) Adjacent ground contacts were powered:

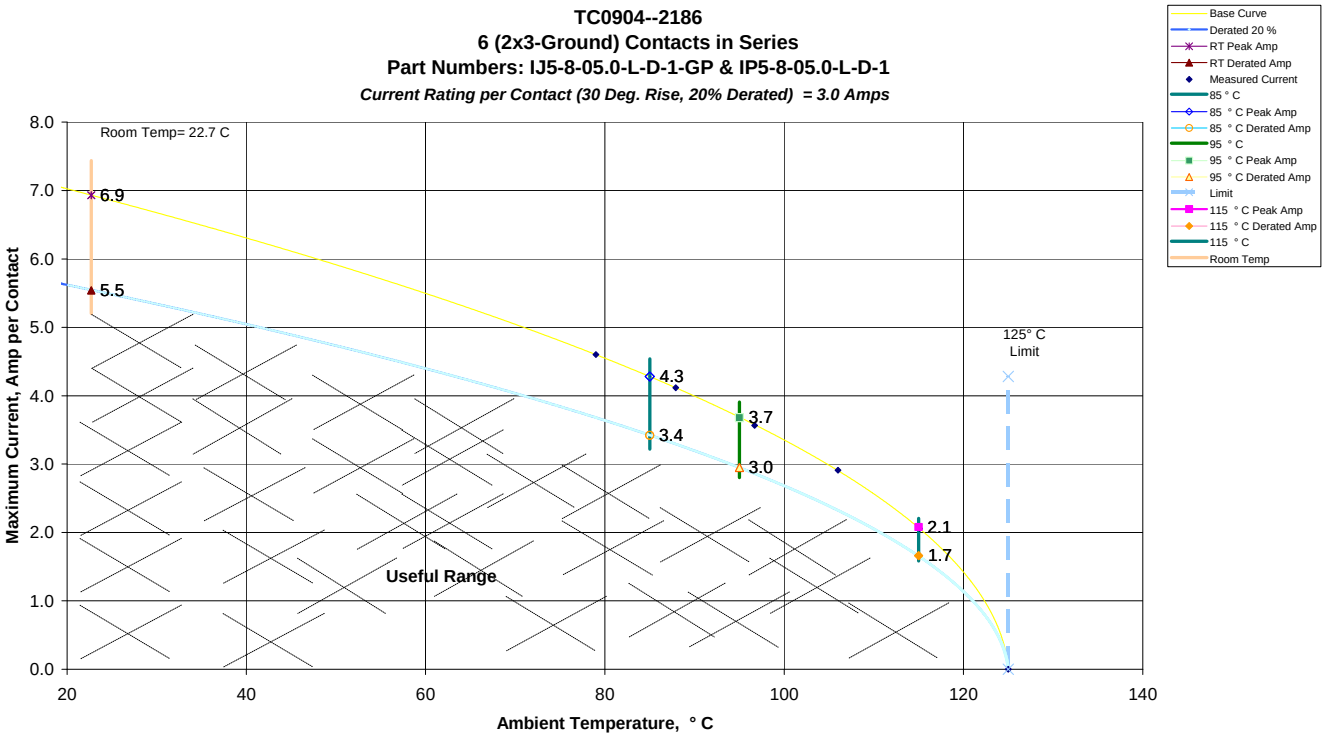
a. Linear configuration with 2 adjacent grounds powered



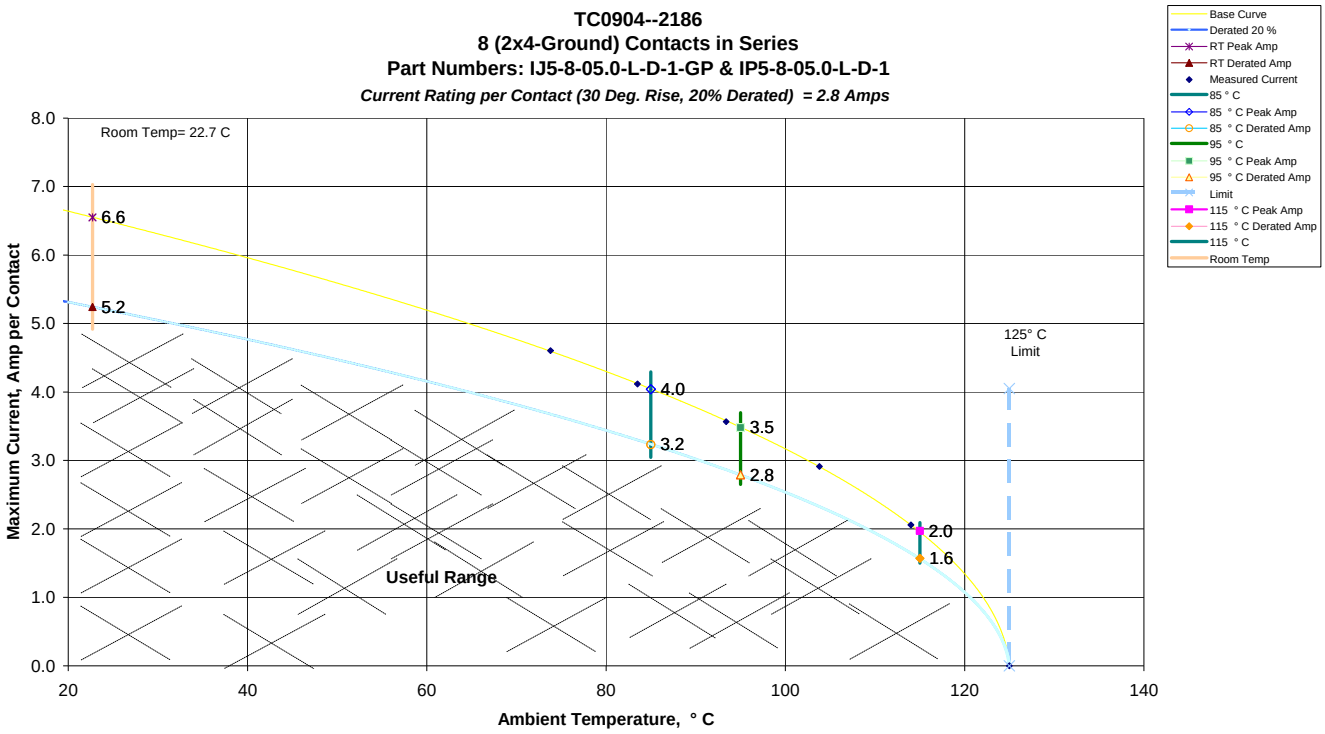
b. Linear configuration with 4 adjacent grounds powered



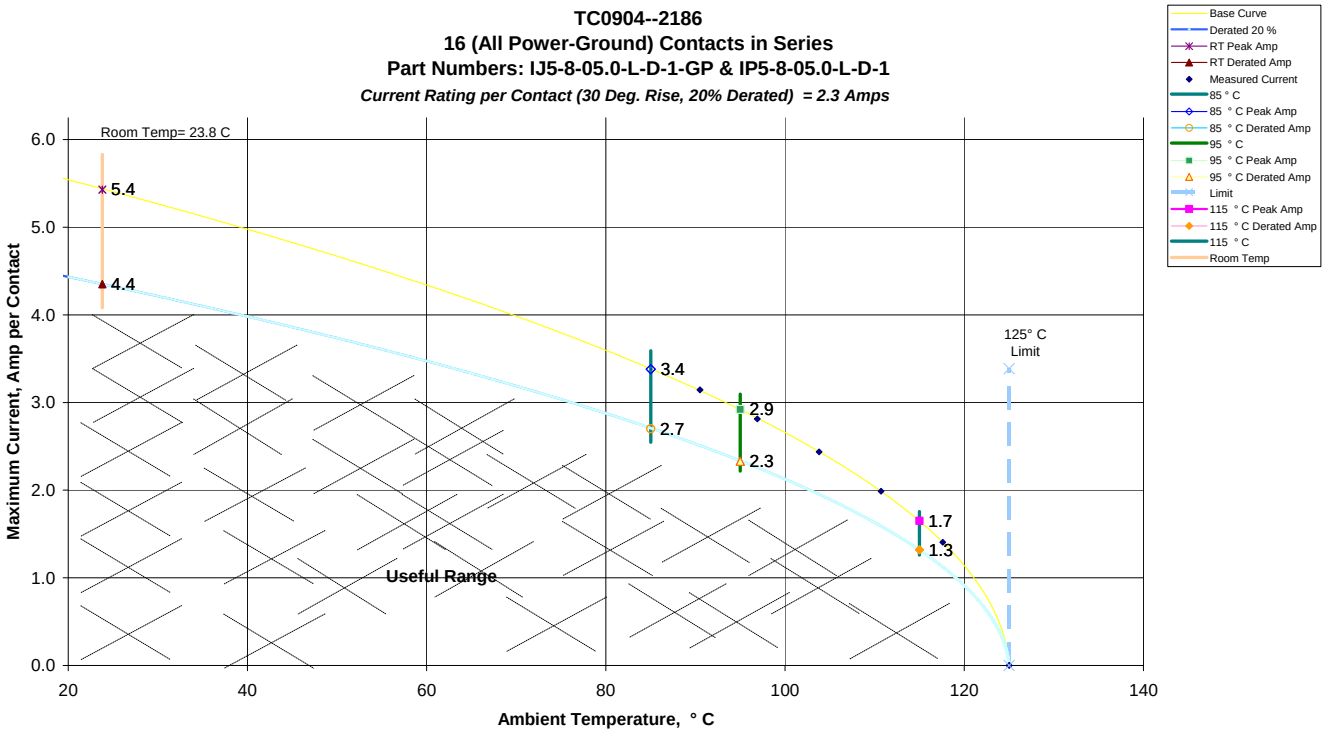
c. Linear configuration with 6 adjacent grounds powered



d. Linear configuration with 8 adjacent grounds powered



e. Linear configuration with all adjacent grounds powered



CONTACT GAPS:

IJ5 Signal Gaps

Initial		After 100 Cycles		Thermal		Humidity	
Measured in inches		Measured in inches		Measured in inches		Measured in inches	
Minimum	0.0423	***Minimum***	0.0502	***Minimum***	0.0439	***Minimum***	0.0400
Maximum	0.0493	***Maximum***	0.0561	***Maximum***	0.0470	***Maximum***	0.0479
Average	0.0466	***Average***	0.0536	***Average***	0.0457	***Average***	0.0454
St. Dev.	0.0011	***St. Dev.***	0.0013	***St. Dev.***	0.0005	***St. Dev.***	0.0010
Count	80	***Count***	80	***Count***	80	***Count***	80

MATING/UNMATING:

	Initial				After 25 Cycles			
	Mating		**Unmating**		**Mating**		**Unmating**	
	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
Minimum	247.9	15.49	121.4	7.59	211.3	13.21	123.1	7.69
Maximum	421.8	26.4	175.7	11.0	332.5	20.8	201.4	12.6
Average	322.3	**20.1**	160.4	**10.0**	283.5	**17.7**	176.6	**11.0**
	After 50 Cycles				After 75 Cycles			
	Mating		**Unmating**		**Mating**		**Unmating**	
	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
Minimum	207.6	12.97	124.9	7.81	207.0	12.94	124.0	7.75
Maximum	387.0	24.2	222.2	13.9	389.1	24.3	245.9	15.4
Average	307.1	**19.2**	191.3	**12.0**	319.5	**20.0**	203.8	**12.7**
	After 100 Cycles				After Thermals			
	Mating		**Unmating**		**Mating**		**Unmating**	
	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
Minimum	204.1	12.76	123.1	7.69	183.3	11.45	118.2	7.39
Maximum	413.9	25.9	263.2	16.5	273.6	17.1	192.1	12.0
Average	335.7	**21.0**	215.0	**13.4**	230.9	**14.4**	166.6	**10.4**
	After Humidity							
	Mating		**Unmating**					
	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)				
Minimum	145.9	9.12	113.4	7.09				
Maximum	218.9	13.7	182.7	11.4				
Average	186.8	**11.7**	155.7	**9.7**				

NORMAL FORCE (FOR CONTACTS TESTED IN THE HOUSING):

1) Calibrated force gauges are used along with computer controlled positioning equipment.
2) For normal force 8-10 measurements are taken and the averages reported.

Signal Pin:

Initial	Deflections in inches Forces in Grams										
	0.0011	**0.0021**	**0.0032**	**0.0042**	**0.0053**	**0.0063**	**0.0074**	**0.0084**	**0.0095**	**0.0105**	***SET***
Averages	**9.84**	**16.95**	**24.50**	**32.35**	**40.66**	**48.99**	**57.41**	**66.06**	**74.09**	**81.46**	**0.0006**
Min	9.10	16.00	23.10	30.80	39.00	46.80	54.60	62.00	69.00	76.00	0.0001
Max	12.00	19.60	27.90	36.30	44.70	52.30	61.00	74.30	84.70	94.10	0.0007
St. Dev	0.924	1.159	1.613	1.931	2.089	2.068	2.372	3.920	4.748	5.486	0.0002
Count	8	8	8	8	8	8	8	8	8	8	8

After Thermals	Deflections in inches Forces in Grams										
	0.0011	**0.0021**	**0.0032**	**0.0042**	**0.0053**	**0.0063**	**0.0074**	**0.0084**	**0.0095**	**0.0105**	***SET***
Averages	**9.66**	**15.27**	**22.21**	**29.76**	**37.76**	**46.42**	**56.28**	**67.07**	**77.58**	**86.81**	**0.0005**
Min	8.50	14.70	21.50	28.80	35.70	42.70	49.70	57.30	66.00	74.30	0.0002
Max	10.50	16.30	23.60	31.20	39.80	48.90	60.00	73.20	85.70	93.80	0.0008
St. Dev	0.534	0.542	0.617	0.757	1.471	2.221	3.509	5.365	6.665	7.090	0.0002
Count	10	10	10	10	10	10	10	10	10	10	10

Ground Pin:

Initial	Deflections in inches Forces in Grams										
	0.0006	**0.0012**	**0.0018**	**0.0024**	**0.0030**	**0.0036**	**0.0042**	**0.0048**	**0.0054**	**0.0060**	***SET***
Averages	18.57	37.86	56.94	75.25	93.13	109.89	125.98	141.38	155.48	168.81	0.0008
Min	16.60	33.90	51.80	68.30	85.40	101.30	115.40	129.40	142.40	154.30	0.0005
Max	20.70	42.10	62.20	82.30	101.10	118.70	134.90	150.10	164.80	179.60	0.0009
St. Dev	1.584	3.177	4.296	5.772	6.816	7.571	8.171	8.486	9.020	9.394	0.0001
Count	10	10	10	10	10	10	10	10	10	10	10

After Thermals	Deflections in inches Forces in Grams										
	0.0006	**0.0012**	**0.0018**	**0.0024**	**0.0030**	**0.0036**	**0.0042**	**0.0048**	**0.0054**	**0.0060**	***SET***
Averages	19.43	39.39	60.32	81.18	102.36	123.14	143.89	163.29	180.72	194.94	0.0004
Min	17.00	34.00	52.10	69.20	86.80	104.40	122.60	141.40	158.30	173.40	0.0001
Max	22.20	44.60	69.20	91.90	115.70	139.10	162.30	183.00	200.30	213.80	0.0005
St. Dev	1.690	3.363	5.450	7.535	9.784	11.808	13.266	13.755	13.684	12.985	0.0001
Count	10	10	10	10	10	10	10	10	10	10	10

INSULATION RESISTANCE (IR):

	Pin to Pin		
	Mated	Unmated	Unmated
Minimum	**IJ5/IP5**	**IJ5**	**IP5**
Initial	100000	100000	100000
Thermal	100000	100000	100000
Humidity	100000	100000	100000

	Pin to Ground		
	Mated	Unmated	Unmated
Minimum	**IJ5/IP5**	**IJ5**	**IP5**
Initial	100000	100000	100000
Thermal	100000	100000	100000
Humidity	35000	100000	100000

DIELECTRIC WITHSTANDING VOLTAGE (DWV):

Voltage Rating Summary	
Minimum	**IJ5/IP5**
Break Down Voltage	800
Test Voltage	600
Working Voltage	200

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

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

LLCR:

1) A total of 192 signal points and 80 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. <= +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 +2000 mOhms ---------- Unstable
   f. >+2000 mOhms:---------- Open Failure

SIGNALS

Date	Jan. 30 2009	Feb. 04 2009	Feb. 16 2009	Feb. 27 2009
Room Temp C	21	20	23	23.7
RH	24%	23%	28%	32%
Name	Lomax	Lomax	RILEY	Troy Cook
mOhm values	**Actual Initial**	**Delta 100 Cycles**	**Delta Thermal**	**Delta Humidity**
Average	17.2	-0.1	0.3	1.9
St. Dev.	1.0	1.0	1.3	2.0
Min	14.4	-6.8	-6.2	-5.9
Max	23.5	3.1	4.6	9.6
Count	192	192	192	192

GROUNDS

Date	Jan. 30 2009	Feb. 02 2009	Feb. 16 2009	Feb. 27 2009
Room Temp C	21	23	23	23
RH	23%	24%	27%	41%
Name	Lomax	Marshall	RILEY	Troy Cook
mOhm values	**Actual Initial**	**Delta 100 Cycles**	**Delta Thermal**	**Delta Humidity**
Average	5.2	0.1	0.1	0.2
St. Dev.	0.3	0.1	0.1	0.1
Min	4.5	-0.1	0.0	0.0
Max	5.6	0.3	0.3	0.5
Count	80	80	80	80

GAS TIGHT:

1) A total of 192 signal points and 80 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. <= +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 +2000 mOhms: ---------- Unstable
   f. >+2000 mOhms:---------- Open Failure

SIGNALS

Date	Jan. 30 2009	Jan. 30 2009
Room Temp C	20	24
RH	24%	23%
Name	Lomax	Marshall
mOhm values	**Actual Initial**	**Delta Gas Tight**
Average	17.2	0.1
St. Dev.	1.1	1.1
Min	14.4	-2.4
Max	22.8	6.8
Count	192	192

GROUNDS

Date	Jan. 30 2009	Jan. 30 2009
Room Temp C	21	23
RH	24%	22%
Name	Lomax	Marshall
mOhm values	**Actual Initial**	**Delta Gas Tight**
Average	5.0	0.0
St. Dev.	0.7	0.1
Min	2.2	-0.7
Max	7.5	0.3
Count	80	80

DATA

CONTACT GAPS:

IJ5 Signal Gaps

Initial					
Measured in inches					
Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**
1	0.0472	0.0465	0.0461	0.0468	0.0462
2	0.047	0.0481	0.0477	0.0479	0.0462
3	0.0464	0.0478	0.0465	0.0466	0.0466
4	0.0482	0.0486	0.0469	0.0478	0.0466
5	0.0472	0.0472	0.0469	0.0465	0.0458
6	0.0476	0.0483	0.0475	0.0469	0.0469
7	0.0465	0.0469	0.0471	0.0461	0.0493
8	0.0469	0.0476	0.0472	0.0458	0.0451
9	0.0465	0.0459	0.0463	0.0455	0.0454
10	0.0465	0.0466	0.0472	0.0461	0.0465
11	0.0457	0.0461	0.0462	0.0463	0.0442
12	0.0461	0.045	0.0457	0.0475	0.0451
13	0.0471	0.0458	0.0462	0.0472	0.0442
14	0.0476	0.0471	0.047	0.0469	0.0452
15	0.0462	0.0465	0.0447	0.0468	0.0423
16	0.047	0.0464	0.0465	0.045	0.0479
After 100 Cycles					
Measured in inches					
Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**
1	0.0535	0.0531	0.054	0.0537	0.0542
2	0.0555	0.055	0.0531	0.0543	0.0531
3	0.0546	0.0532	0.0518	0.0531	0.0515
4	0.0553	0.0543	0.0561	0.0521	0.0538
5	0.055	0.055	0.0538	0.052	0.0551
6	0.0539	0.0502	0.0539	0.0534	0.0533
7	0.0548	0.0543	0.0557	0.0529	0.0528
8	0.0553	0.055	0.0558	0.0561	0.0531
9	0.0534	0.0534	0.0531	0.0558	0.0554
10	0.0516	0.0521	0.0518	0.0543	0.0539
11	0.0535	0.0523	0.0524	0.0543	0.0552
12	0.0528	0.0526	0.0536	0.0536	0.0554
13	0.0509	0.0521	0.0546	0.0516	0.0561
14	0.0541	0.0527	0.0538	0.0528	0.0544
15	0.0532	0.0521	0.0537	0.0541	0.0538
16	0.0505	0.0527	0.0545	0.0533	0.053

After Thermal					
Measured in inches					
Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**
1	0.0461	0.0462	0.0454	0.0452	0.0458
2	0.046	0.0455	0.0462	0.0455	0.0453
3	0.047	0.0467	0.0466	0.0463	0.0452
4	0.0463	0.0458	0.0462	0.0459	0.045
5	0.046	0.0465	0.0459	0.0465	0.0457
6	0.0457	0.0462	0.0455	0.0459	0.0456
7	0.046	0.0439	0.0463	0.0468	0.0463
8	0.0452	0.0451	0.0457	0.0461	0.0449
9	0.046	0.0457	0.0457	0.0455	0.0456
10	0.0452	0.0458	0.0454	0.0463	0.0461
11	0.0456	0.0452	0.0461	0.0464	0.0451
12	0.0461	0.0452	0.0454	0.046	0.0453
13	0.0454	0.046	0.0456	0.0462	0.0455
14	0.0447	0.0457	0.0459	0.0456	0.0451
15	0.0453	0.0456	0.0466	0.0453	0.0462
16	0.0457	0.0454	0.0457	0.0453	0.0453

After Humidity					
Measured in inches					
Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**
1	0.046	0.0462	0.0454	0.0454	0.0459
2	0.0449	0.0455	0.0463	0.0441	0.0454
3	0.0462	0.0464	0.0461	0.0459	0.0434
4	0.0457	0.0459	0.0457	0.0449	0.0453
5	0.0457	0.0461	0.0457	0.0462	0.0461
6	0.045	0.0456	0.0458	0.04	0.0459
7	0.0456	0.0461	0.0428	0.0461	0.046
8	0.0447	0.045	0.0447	0.0454	0.045
9	0.0457	0.0429	0.0458	0.0461	0.0461
10	0.0448	0.0459	0.0456	0.0457	0.0468
11	0.0454	0.0448	0.0438	0.0458	0.0452
12	0.0446	0.0451	0.046	0.0451	0.0456
13	0.045	0.0456	0.0444	0.0465	0.0449
14	0.0441	0.0454	0.0463	0.0456	0.0451
15	0.0452	0.0455	0.0479	0.0456	0.0461
16	0.0442	0.0455	0.0457	0.0461	0.0457

MATING/UNMATING:

	Initial		After 25 Cycles		After 50 Cycles		After 75 Cycles		After 100 Cycles		After Thermals		After Humidity	
Sample#	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	18.25	9.47	18.29	10.97	19.60	12.09	20.05	12.81	19.62	12.93	13.65	10.05	11.42	9.28
2	21.36	9.44	17.88	10.82	19.40	12.10	19.43	12.82	21.76	14.00	14.19	10.29	11.75	9.75
3	15.49	7.59	13.21	7.69	12.97	7.81	12.94	7.75	12.76	7.69	11.45	8.05	9.12	7.09
4	18.37	10.98	17.17	12.59	18.75	13.89	23.08	15.37	23.36	16.45	13.91	10.98	11.26	10.16
5	26.36	10.37	20.78	11.77	21.96	12.73	22.25	13.50	24.03	14.87	15.73	11.04	13.68	10.82
6	20.59	10.24	18.28	11.96	20.29	13.05	21.08	14.21	23.42	15.28	17.10	11.79	12.69	11.42
7	24.40	10.78	20.59	12.10	24.19	13.33	24.19	14.49	25.87	15.31	16.09	12.01	12.95	10.95
8	16.23	10.52	15.75	11.57	16.75	12.68	17.17	13.54	17.82	14.50	14.63	11.89	11.65	10.46
9	22.95	10.11	20.10	11.63	22.83	12.63	24.32	13.53	25.74	14.61	15.77	10.68	12.76	9.89
10	17.47	10.78	15.17	9.24	15.22	9.23	15.21	9.35	15.41	8.75	11.79	7.39	9.50	7.48

NORMAL FORCE (FOR CONTACTS TESTED IN THE HOUSING):

Signal Pins:

Initial — **Deflections in inches, Forces in Grams**

Sample #	0.0011	0.0021	0.0032	0.0042	0.0053	0.0063	0.0074	0.0084	0.0095	0.0105	*SET*
1	9.2	17.0	25.7	34.2	42.9	51.6	61.0	74.3	84.7	94.1	0.0001
2	9.1	16.0	23.1	30.8	39.0	47.2	54.9	62.3	71.0	78.3	0.0006
3	9.9	17.0	24.4	31.7	39.2	47.5	56.5	64.6	71.8	79.2	0.0006
4	9.6	16.6	24.3	32.2	40.9	49.9	58.3	66.2	74.0	80.8	0.0006
5	9.8	17.1	24.0	31.6	39.9	48.0	56.4	64.9	72.6	79.3	0.0006
6	9.8	16.3	23.5	31.1	39.0	46.8	54.6	62.0	69.0	76.0	0.0007
7	9.3	16.0	23.1	30.9	39.7	48.6	57.1	65.8	74.0	81.6	0.0007
8	12.0	19.6	27.9	36.3	44.7	52.3	60.5	68.4	75.6	82.4	0.0007

After Thermals — **Deflections in inches, Forces in Grams**

Sample #	0.0011	0.0021	0.0032	0.0042	0.0053	0.0063	0.0074	0.0084	0.0095	0.0105	*SET*
1	8.5	14.9	22.2	30.5	39.6	48.9	58.4	66.9	73.3	79.5	0.0008
2	9.7	15.4	22.2	29.9	38.6	48.0	58.6	70.7	82.7	90.4	0.0005
3	9.9	15.8	22.8	29.9	37.8	47.5	60.0	73.2	81.8	88.9	0.0006
4	10.5	16.3	23.6	31.2	39.8	48.7	58.1	68.1	81.9	92.8	0.0004
5	9.7	15.2	22.2	29.7	37.2	45.4	54.7	64.8	75.8	92.5	0.0004
6	9.5	14.9	22.1	30.2	39.2	48.6	58.4	72.4	85.7	93.8	0.0007
7	9.2	14.7	21.6	29.0	36.2	43.7	51.4	60.2	69.4	78.8	0.0002
8	10.1	15.8	22.2	28.8	35.7	42.7	49.7	57.3	66.0	74.3	0.0005
9	9.8	15.0	21.7	29.5	37.0	45.2	54.6	64.9	75.1	84.2	0.0005
10	9.7	14.7	21.5	28.9	36.5	45.5	58.9	72.2	84.1	92.9	0.0006

Ground Pins:

Initial — **Deflections in inches, Forces in Grams**

Sample #	0.0006	0.0012	0.0018	0.0024	0.0030	0.0036	0.0042	0.0048	0.0054	0.0060	*SET*
1	17.0	33.9	51.8	68.3	86.2	103.5	120.3	136.6	150.1	162.0	0.0005
2	17.1	35.1	53.0	70.4	86.6	101.7	115.4	129.4	142.4	154.3	0.0008
3	16.6	34.7	52.5	68.6	85.4	101.3	117.1	132.1	145.8	159.6	0.0007
4	17.5	35.1	53.1	70.3	86.5	102.1	117.4	132.6	146.8	161.6	0.0008
5	17.5	36.0	54.5	72.1	89.3	105.6	122.0	137.4	151.1	163.9	0.0008
6	20.3	41.7	62.2	81.7	99.4	116.6	132.3	149.0	163.6	176.4	0.0009
7	19.5	40.0	59.1	78.8	97.1	115.4	133.3	149.3	164.8	178.9	0.0009
8	20.7	42.1	61.5	82.3	101.1	118.7	134.9	150.1	164.7	179.6	0.0009
9	19.2	40.1	60.9	80.4	99.6	117.7	134.1	148.9	163.2	176.1	0.0009
10	20.3	39.9	60.8	79.6	100.1	116.3	133.0	148.4	162.3	175.7	0.0009

After Thermals — **Deflections in inches, Forces in Grams**

Sample #	0.0006	0.0012	0.0018	0.0024	0.0030	0.0036	0.0042	0.0048	0.0054	0.0060	*SET*
1	17.8	37.2	55.7	73.5	91.2	109.5	128.0	145.1	161.5	175.9	0.0002
2	17.0	34.0	52.1	69.2	86.8	104.4	122.6	141.4	158.3	173.4	0.0003
3	18.1	35.9	54.8	72.9	92.2	109.7	130.3	150.8	169.2	184.3	0.0004
4	18.5	38.3	59.4	82.1	103.8	126.3	146.8	167.0	184.2	197.6	0.0004
5	19.1	37.9	57.0	77.5	97.5	118.6	138.2	157.9	178.3	196.8	0.0001
6	19.0	39.4	61.2	83.7	107.6	128.9	151.0	172.4	190.7	203.9	0.0003
7	20.4	41.2	63.6	85.9	108.3	130.5	152.4	169.9	186.1	198.8	0.0005
8	22.2	44.6	69.2	91.9	115.7	139.1	162.3	183.0	200.3	213.8	0.0004
9	21.2	42.6	65.1	86.9	110.9	132.5	153.3	171.8	188.0	201.1	0.0005
10	21.0	42.8	65.1	88.2	109.6	131.9	154.0	173.6	190.6	203.8	0.0005

INSULATION RESISTANCE (IR):

Initial Insulation Resistance
Measured In Meg Ohms

	Pin to Pin		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	100,000	100,000	100,000
2	100,000	100,000	100,000

	Pin to Ground		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	100,000	100,000	100,000
2	100,000	100,000	100,000

Thermal Insulation Resistance
Measured In Meg Ohms

	Pin to Pin		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	100,000	100,000	100,000
2	100,000	100,000	100,000

	Pin to Ground		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	100,000	100,000	100,000
2	100,000	100,000	100,000

Humidity Insulation Resistance
Measured In Meg Ohms

	Pin to Pin		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	100,000	100,000	100,000
2	100,000	100,000	100,000

	Pin to Ground		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	35,000	100,000	100,000
2	100,000	100,000	100,000

DIELECTRIC WITHSTANDING VOLTAGE (DWV):

Initial DWV
Test Voltage= 600

	Pin to Pin		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	600	600	600
2	600	600	600

	Pin to Ground		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	600	600	600
2	600	600	600

Thermal Test Voltage
Test Voltage= 600

	Pin to Pin		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	600	600	600
2	600	600	600

	Pin to Ground		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	600	600	600
2	600	600	600

Humidity Test Voltage
Test Voltage= 600

	Pin to Pin		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	600	600	600
2	600	600	600

	Pin to Ground		
	Mated	Unmated	
Sample#	IJ5/IP5	IJ5	IP5
1	600	600	600
2	600	600	600

LLCR (Signals):

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	100 Cycles	Thermal	Humidity
1	P1	17.4	0.4	1.1	1.3
1	P2	18.2	-0.7	0.6	2.4
1	P3	16.9	0.4	0.4	2.3
1	P4	16.8	0.1	0.1	2.6
1	P5	17.0	0.3	0.0	2.5
1	P6	16.9	0.2	0.7	1.1
1	P7	18.4	-0.2	0.1	1.1
1	P8	17.4	1.5	0.7	2.2
1	P9	17.4	0.1	0.9	1.8
1	P10	17.9	0.5	0.7	3.7
1	P11	17.3	0.6	0.2	2.2
1	P12	17.0	0.6	0.2	3.7
1	P13	18.6	-1.1	-0.7	2.2
1	P14	15.6	1.2	0.4	3.2
1	P15	17.6	-0.2	0.0	1.4
1	P16	17.5	0.1	-0.7	0.8
2	P1	17.4	-0.5	-0.5	1.2
2	P2	17.9	0.3	0.1	-0.3
2	P3	16.7	0.4	0.5	1.4
2	P4	17.8	-0.6	0.5	0.2
2	P5	17.3	-0.6	0.0	1.3
2	P6	17.2	0.6	0.4	2.4
2	P7	17.0	1.3	0.4	1.3
2	P8	17.4	-0.3	-0.4	1.5
2	P9	17.7	0.1	0.0	1.8
2	P10	17.6	-0.6	-0.5	3.3
2	P11	17.1	-0.2	0.3	3.9
2	P12	17.2	0.2	0.5	-0.8
2	P13	18.3	0.6	-1.0	5.8
2	P14	16.1	0.9	1.0	2.9
2	P15	16.2	1.0	1.5	1.6
2	P16	17.0	0.7	0.7	2.9
3	P1	17.3	1.0	0.3	2.7
3	P2	17.3	-0.2	-0.1	1.6
3	P3	14.9	0.3	0.0	1.3
3	P4	17.9	-1.6	-1.1	0.1
3	P5	17.1	-1.1	-0.7	0.3
3	P6	17.9	-1.2	-0.9	0.8
3	P7	18.2	-0.8	-1.4	1.3
3	P8	16.3	-0.8	-0.9	4.4
3	P9	17.7	-0.4	-0.3	3.0
3	P10	17.5	0.5	0.4	1.9
3	P11	17.5	-0.5	-0.3	0.3
3	P12	18.9	-0.7	-1.3	1.3
3	P13	18.6	-0.4	-1.1	0.2
3	P14	18.3	-1.6	0.0	-1.5

3	P15	16.6	0.3	1.2	2.1
3	P16	17.4	-0.2	0.2	1.5
4	P1	17.2	0.5	1.1	1.6
4	P2	17.5	0.0	0.5	0.2
4	P3	19.0	-2.1	-1.7	-1.3
4	P4	17.9	-0.8	-0.2	0.7
4	P5	17.0	0.0	1.1	0.5
4	P6	17.2	0.7	0.6	1.0
4	P7	17.4	0.2	-0.2	1.2
4	P8	16.9	0.3	0.7	1.1
4	P9	17.7	-0.6	0.5	0.0
4	P10	17.4	0.6	4.5	2.7
4	P11	17.8	0.2	1.5	1.3
4	P12	17.8	-0.2	4.2	3.5
4	P13	17.7	0.1	1.4	1.8
4	P14	15.3	0.3	0.7	1.2
4	P15	17.2	-0.5	0.4	0.6
4	P16	17.0	0.8	1.2	2.1
5	P1	16.6	0.7	2.3	1.2
5	P2	16.7	0.3	0.2	2.8
5	P3	17.4	-0.4	-0.5	-0.3
5	P4	16.5	-0.4	0.7	1.3
5	P5	16.5	-0.7	-0.4	0.8
5	P6	16.0	-0.1	0.2	2.8
5	P7	16.4	-0.3	0.2	3.8
5	P8	15.0	2.6	1.3	2.3
5	P9	17.7	-0.1	0.1	2.3
5	P10	16.7	-0.4	0.1	2.9
5	P11	14.7	0.1	0.4	4.9
5	P12	16.5	-0.2	0.4	1.6
5	P13	16.5	0.3	0.0	3.1
5	P14	16.5	1.9	2.8	2.8
5	P15	16.0	-0.2	0.1	1.8
5	P16	16.1	0.0	1.0	2.0
6	P1	20.0	-1.1	-2.7	-0.4
6	P2	17.7	-0.5	-0.2	2.0
6	P3	16.5	0.2	2.1	3.4
6	P4	17.6	0.0	2.6	2.9
6	P5	17.2	0.5	4.5	4.6
6	P6	16.1	-0.3	4.4	3.2
6	P7	19.6	0.3	-0.4	-1.3
6	P8	16.4	0.4	1.6	1.8
6	P9	17.1	0.1	0.3	3.1
6	P10	17.0	0.0	-0.2	0.9
6	P11	17.4	0.3	1.4	1.1
6	P12	17.5	-0.1	0.8	1.1
6	P13	17.1	-0.6	0.6	2.3
6	P14	16.8	-1.2	2.3	3.7
6	P15	16.4	-0.2	1.1	2.9

6	P16	16.8	-0.1	1.3	-0.2
7	P1	17.1	0.8	0.9	2.4
7	P2	17.9	-0.6	0.0	0.5
7	P3	17.2	-0.2	0.2	2.7
7	P4	17.1	0.3	0.4	0.6
7	P5	17.2	-0.1	1.1	0.0
7	P6	16.3	0.9	1.7	0.9
7	P7	17.0	0.9	1.1	1.6
7	P8	16.1	0.1	1.5	3.3
7	P9	18.5	-0.5	-0.4	-0.7
7	P10	17.8	-0.3	-0.2	1.3
7	P11	17.4	0.3	-0.3	1.8
7	P12	18.7	-0.8	-0.8	0.5
7	P13	17.6	0.4	0.4	1.1
7	P14	17.0	0.2	0.7	1.0
7	P15	18.2	-0.4	-0.1	0.3
7	P16	17.9	-0.9	1.9	1.7
8	P1	18.6	-0.9	-2.0	-1.5
8	P2	15.9	0.6	0.2	4.3
8	P3	17.6	-0.4	0.4	0.8
8	P4	18.4	-1.3	0.2	-0.4
8	P5	17.6	0.5	2.0	1.6
8	P6	15.1	2.7	4.6	3.9
8	P7	16.2	1.3	0.5	1.4
8	P8	16.9	-0.5	0.6	1.2
8	P9	18.4	-1.2	-1.0	2.6
8	P10	18.1	-1.0	-1.1	0.6
8	P11	16.1	0.7	0.4	3.3
8	P12	17.5	-0.3	-0.4	3.6
8	P13	17.7	0.4	0.0	3.2
8	P14	17.1	-0.1	-0.1	2.3
8	P15	17.9	-0.7	-1.0	1.9
8	P16	16.6	0.4	0.2	2.0
9	P1	16.6	0.0	1.3	0.7
9	P2	17.6	0.1	-0.2	-0.1
9	P3	17.0	-0.3	0.4	-0.1
9	P4	17.1	-0.5	0.7	-0.4
9	P5	16.6	-0.1	1.1	0.3
9	P6	15.3	-0.8	0.0	2.6
9	P7	14.8	1.6	1.8	1.6
9	P8	16.9	0.5	0.5	3.0
9	P9	18.0	-0.3	0.0	0.5
9	P10	16.8	0.2	0.8	2.1
9	P11	14.8	1.7	2.5	3.5
9	P12	17.3	-0.5	-0.1	1.9
9	P13	16.4	-0.1	0.1	1.3
9	P14	17.0	-0.4	-0.5	0.0
9	P15	16.2	0.1	0.3	1.3
9	P16	16.2	0.2	0.0	2.0

10	P1	19.1	-1.7	-0.2	0.2
10	P2	18.1	-0.3	0.5	0.5
10	P3	16.2	-1.2	1.5	2.5
10	P4	20.3	-2.6	-1.0	-2.0
10	P5	17.3	0.3	1.9	1.1
10	P6	16.8	0.1	1.7	0.8
10	P7	18.4	-0.2	-0.8	-0.7
10	P8	18.5	0.3	-0.4	0.3
10	P9	18.0	-1.1	-0.5	0.3
10	P10	17.0	0.2	0.6	0.7
10	P11	18.5	-1.5	-1.3	-0.9
10	P12	17.5	0.2	0.4	1.3
10	P13	18.1	-1.0	-0.5	-0.2
10	P14	17.2	-0.1	1.3	0.7
10	P15	17.3	-0.7	0.2	0.1
10	P16	17.1	0.3	1.6	0.0
11	P1	16.8	0.6	0.1	0.9
11	P2	16.1	0.9	0.5	1.8
11	P3	16.3	1.5	0.9	3.0
11	P4	16.7	1.6	1.2	0.9
11	P5	16.6	2.0	1.4	1.0
11	P6	14.4	3.1	4.3	3.7
11	P7	17.1	0.8	-0.8	1.6
11	P8	17.5	-0.6	-0.3	1.7
11	P9	23.5	-6.8	-6.2	-5.9
11	P10	17.6	-0.1	0.5	0.3
11	P11	17.8	0.1	0.0	-0.7
11	P12	17.0	0.4	0.5	0.0
11	P13	17.3	2.2	2.3	3.6
11	P14	17.8	-0.6	-1.5	4.1
11	P15	16.4	0.9	1.0	2.1
11	P16	16.6	2.4	2.4	9.1
12	P1	16.3	-0.6	0.7	2.4
12	P2	17.7	-1.5	-0.7	7.3
12	P3	17.0	-0.5	-0.4	2.5
12	P4	17.2	-0.8	-0.4	6.5
12	P5	17.6	-1.1	-0.7	8.1
12	P6	17.7	-1.5	-1.5	8.8
12	P7	18.4	-1.9	-3.4	-0.3
12	P8	19.0	-2.7	-2.3	2.0
12	P9	18.5	-2.1	-1.2	8.4
12	P10	17.5	-0.6	-0.4	6.3
12	P11	16.6	0.0	-1.1	8.4
12	P12	17.4	-0.1	-1.1	6.2
12	P13	17.8	0.5	-1.6	3.3
12	P14	15.4	1.9	2.1	4.6
12	P15	17.3	-1.0	0.3	9.6
12	P16	18.0	-1.8	-1.0	3.5

LLCR (Grounds):

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	100 Cycles	Thermal	Humidity
1	P1	5.0	0.1	0.1	0.2
1	P2	5.2	0.0	0.0	0.1
1	P3	5.1	0.0	0.0	0.2
1	P4	5.1	0.0	0.0	0.2
1	P5	5.1	0.0	0.1	0.2
1	P6	5.3	0.1	0.1	0.2
1	P7	5.4	0.0	0.0	0.2
1	P8	5.1	0.0	0.1	0.5
1	P9	5.4	-0.1	0.0	0.1
1	P10	5.5	0.1	0.0	0.1
1	P11	5.4	0.1	0.0	0.1
1	P12	5.5	0.0	0.1	0.2
1	P13	5.3	0.1	0.1	0.1
1	P14	5.1	0.1	0.1	0.2
1	P15	4.9	0.0	0.1	0.1
1	P16	5.0	0.1	0.1	0.2
2	P1	5.1	0.1	0.0	0.1
2	P2	5.0	0.0	0.0	0.1
2	P3	4.9	0.0	0.0	0.1
2	P4	5.2	0.0	0.0	0.2
2	P5	5.3	0.0	0.0	0.0
2	P6	5.4	0.0	0.1	0.1
2	P7	5.4	0.0	0.0	0.2
2	P8	5.4	0.1	0.0	0.2
2	P9	5.2	0.0	0.0	0.1
2	P10	5.5	0.0	0.0	0.2
2	P11	5.3	0.0	0.0	0.2
2	P12	5.4	0.0	0.1	0.2
2	P13	5.5	0.0	0.0	0.1
2	P14	5.5	0.0	0.0	0.1
2	P15	5.0	0.0	0.1	0.1
2	P16	5.1	0.0	0.1	0.1
3	P1	4.5	0.0	0.1	0.2
3	P2	4.8	0.0	0.1	0.3
3	P3	4.8	0.0	0.0	0.3
3	P4	4.8	0.0	0.0	0.3
3	P5	5.0	0.1	0.0	0.3
3	P6	5.0	0.0	0.0	0.2
3	P7	5.1	0.1	0.1	0.2
3	P8	5.1	0.0	0.0	0.3
3	P9	5.0	0.0	0.0	0.2
3	P10	5.1	0.0	0.1	0.2
3	P11	5.0	0.0	0.1	0.2

3	P12	5.0	0.0	0.1	0.3
3	P13	5.1	0.1	0.1	0.2
3	P14	5.1	0.1	0.1	0.3
3	P15	4.8	0.0	0.0	0.2
3	P16	4.7	0.0	0.1	0.2
4	P1	4.9	0.1	0.1	0.1
4	P2	5.4	0.0	0.0	0.2
4	P3	5.5	0.0	0.0	0.1
4	P4	5.4	0.0	0.1	0.2
4	P5	5.6	0.0	0.0	0.1
4	P6	5.6	0.0	0.0	0.1
4	P7	5.5	0.1	0.1	0.2
4	P8	5.6	0.0	0.0	0.1
4	P9	5.6	0.2	0.2	0.2
4	P10	5.6	0.0	0.0	0.1
4	P11	5.6	0.0	0.1	0.1
4	P12	5.6	0.1	0.0	0.1
4	P13	5.6	0.1	0.0	0.1
4	P14	5.6	0.1	0.1	0.1
4	P15	5.4	0.1	0.1	0.1
4	P16	5.3	0.1	0.1	0.1
5	P1	4.7	0.3	0.1	0.2
5	P2	4.9	0.1	0.1	0.2
5	P3	4.9	0.1	0.2	0.3
5	P4	4.9	0.0	0.2	0.3
5	P5	4.9	0.1	0.1	0.4
5	P6	4.9	0.1	0.2	0.2
5	P7	5.1	0.1	0.1	0.2
5	P8	5.1	0.1	0.1	0.2
5	P9	5.2	0.1	0.2	0.2
5	P10	5.2	0.2	0.3	0.2
5	P11	5.1	0.0	0.2	0.1
5	P12	5.0	0.1	0.3	0.1
5	P13	5.2	0.2	0.2	0.1
5	P14	5.1	0.2	0.1	0.1
5	P15	4.9	0.1	0.1	0.1
5	P16	4.9	0.2	0.1	0.2

GAS TIGHT (Signals):

	mOhm values	Actual	Delta
Board	Position	Initial	Gas Tight
1	P1	16.5	0.0
1	P2	17.3	0.2
1	P3	15.4	1.4
1	P4	17.8	-0.4
1	P5	16.6	0.1
1	P6	17.3	0.0
1	P7	16.1	-1.6
1	P8	15.8	1.3
1	P9	16.8	0.5
1	P10	17.8	-0.1
1	P11	17.2	0.7
1	P12	17.5	-0.5
1	P13	16.7	0.4
1	P14	15.8	-0.6
1	P15	16.4	0.5
1	P16	16.9	-0.5
2	P1	17.5	-0.3
2	P2	17.6	0.4
2	P3	17.2	0.2
2	P4	18.0	-0.7
2	P5	16.8	-1.9
2	P6	17.3	-0.2
2	P7	17.6	4.0
2	P8	16.3	1.1
2	P9	15.6	1.5
2	P10	16.3	0.6
2	P11	19.2	-2.2
2	P12	16.9	0.6
2	P13	17.6	0.6
2	P14	16.5	0.8
2	P15	17.1	0.1
2	P16	16.9	0.6
3	P1	16.7	0.1
3	P2	16.5	0.1
3	P3	15.3	0.4
3	P4	16.6	-0.2
3	P5	16.5	0.2
3	P6	15.6	-0.8
3	P7	18.4	1.5
3	P8	22.8	-1.8
3	P9	16.8	0.6
3	P10	16.3	0.3
3	P11	17.0	0.3
3	P12	17.4	-0.3
3	P13	20.8	6.8
3	P14	17.6	-0.1

3	P15	16.6	0.8
3	P16	16.7	0.2
4	P1	19.7	0.8
4	P2	19.7	-1.3
4	P3	17.0	0.0
4	P4	19.1	-1.0
4	P5	17.4	-0.6
4	P6	19.6	-2.0
4	P7	17.3	0.3
4	P8	17.3	1.5
4	P9	17.5	0.1
4	P10	17.5	1.2
4	P11	18.9	-1.2
4	P12	17.7	0.2
4	P13	22.6	-1.2
4	P14	15.8	1.8
4	P15	17.5	2.0
4	P16	16.9	0.0
5	P1	14.4	1.6
5	P2	16.5	0.3
5	P3	16.0	0.9
5	P4	16.2	0.7
5	P5	16.4	-0.1
5	P6	14.8	1.6
5	P7	16.7	1.0
5	P8	16.2	-0.3
5	P9	18.9	-0.5
5	P10	17.5	-0.3
5	P11	17.7	-0.2
5	P12	17.8	-0.2
5	P13	17.9	-0.6
5	P14	16.4	0.7
5	P15	17.1	0.4
5	P16	16.6	0.1
6	P1	17.1	0.8
6	P2	17.3	0.2
6	P3	15.1	-0.2
6	P4	18.2	-1.1
6	P5	16.1	0.9
6	P6	16.7	0.1
6	P7	16.9	-1.7
6	P8	17.0	0.0
6	P9	17.5	-0.2
6	P10	16.8	0.5
6	P11	17.2	-0.5
6	P12	17.7	-0.5
6	P13	17.2	0.1
6	P14	15.0	0.5
6	P15	17.0	0.0

6	P16	17.2	-0.8
7	P1	17.4	-0.4
7	P2	18.5	0.4
7	P3	16.5	1.0
7	P4	17.4	-0.3
7	P5	16.5	1.1
7	P6	18.6	-1.2
7	P7	17.7	-0.2
7	P8	17.9	0.3
7	P9	17.5	0.6
7	P10	17.3	0.2
7	P11	17.2	0.7
7	P12	18.9	-1.3
7	P13	18.4	0.5
7	P14	18.5	-0.9
7	P15	18.0	-0.4
7	P16	17.5	0.9
8	P1	16.8	-0.5
8	P2	16.3	0.0
8	P3	14.9	1.2
8	P4	16.8	-0.2
8	P5	15.3	-0.6
8	P6	16.9	-0.4
8	P7	17.1	-0.2
8	P8	15.3	-0.2
8	P9	17.0	0.3
8	P10	16.9	-0.5
8	P11	17.5	-2.4
8	P12	17.4	-1.0
8	P13	16.4	0.9
8	P14	16.9	0.6
8	P15	16.3	0.2
8	P16	16.5	0.3
9	P1	17.0	-0.3
9	P2	16.6	1.0
9	P3	15.3	0.1
9	P4	16.8	0.1
9	P5	17.1	-0.1
9	P6	17.4	0.0
9	P7	17.4	-0.7
9	P8	15.4	-0.3
9	P9	18.1	-0.6
9	P10	16.8	-0.3
9	P11	16.4	-0.1
9	P12	15.6	-0.3
9	P13	16.8	-0.1
9	P14	15.1	-0.6
9	P15	16.7	-0.2
9	P16	16.7	0.0

10	P1	18.1	-0.5
10	P2	17.8	0.5
10	P3	15.5	2.7
10	P4	17.7	0.1
10	P5	18.7	-1.5
10	P6	15.8	2.2
10	P7	17.4	-0.2
10	P8	17.3	0.4
10	P9	16.1	6.7
10	P10	17.8	1.0
10	P11	17.6	0.3
10	P12	17.4	-0.9
10	P13	17.9	-0.1
10	P14	17.7	0.0
10	P15	18.7	-1.4
10	P16	17.4	-0.2
11	P1	17.3	0.0
11	P2	17.0	1.0
11	P3	16.7	0.7
11	P4	17.4	-0.6
11	P5	17.6	-0.6
11	P6	15.2	1.1
11	P7	16.7	-1.6
11	P8	17.1	-0.3
11	P9	17.1	0.6
11	P10	17.5	-0.3
11	P11	17.2	-1.8
11	P12	17.3	-0.4
11	P13	17.4	-0.2
11	P14	18.5	-0.1
11	P15	17.7	-1.1
11	P16	18.1	-0.9
12	P1	17.3	-0.6
12	P2	17.2	1.0
12	P3	16.5	-1.4
12	P4	18.1	-0.4
12	P5	17.4	1.0
12	P6	17.4	1.4
12	P7	17.3	-0.6
12	P8	17.5	0.4
12	P9	17.9	0.5
12	P10	17.1	0.3
12	P11	18.4	0.4
12	P12	17.7	-0.7
12	P13	17.8	1.5
12	P14	15.5	0.0
12	P15	17.2	0.4
12	P16	17.5	-0.4

GAS TIGHT (Grounds):

	mOhm values	Actual	Delta
Board	Position	Initial	Gas Tight
1	P1	6.9	0.0
1	P2	6.2	0.0
1	P3	3.6	0.1
1	P4	2.2	0.0
1	P5	2.8	0.0
1	P6	4.4	0.0
1	P7	7.5	-0.7
1	P8	6.4	0.0
1	P9	3.7	0.0
1	P10	3.0	0.0
1	P11	4.5	0.0
1	P12	4.7	0.0
1	P13	4.7	0.0
1	P14	5.0	0.0
1	P15	4.4	0.0
1	P16	4.2	0.0
2	P1	5.1	0.0
2	P2	5.3	0.0
2	P3	5.3	0.0
2	P4	5.2	0.1
2	P5	5.3	0.0
2	P6	5.2	0.0
2	P7	5.5	0.0
2	P8	5.7	0.0
2	P9	5.6	-0.1
2	P10	5.6	0.0
2	P11	5.4	0.0
2	P12	5.5	0.0
2	P13	5.5	0.0
2	P14	5.3	0.0
2	P15	5.3	0.2
2	P16	5.1	0.0
3	P1	5.0	0.0
3	P2	5.1	0.0
3	P3	5.2	0.0
3	P4	5.0	0.0
3	P5	5.3	0.0
3	P6	5.4	0.0
3	P7	5.4	0.1
3	P8	5.5	0.0
3	P9	5.5	0.0
3	P10	5.5	0.0
3	P11	5.3	0.1

3	P12	5.5	0.0
3	P13	5.2	0.0
3	P14	5.5	0.0
3	P15	4.9	0.1
3	P16	5.2	0.0
4	P1	4.6	0.1
4	P2	4.5	0.1
4	P3	4.7	0.0
4	P4	4.6	0.0
4	P5	4.6	0.1
4	P6	4.8	0.0
4	P7	4.9	0.1
4	P8	4.9	0.1
4	P9	4.5	0.1
4	P10	4.5	0.1
4	P11	4.2	0.1
4	P12	4.6	0.0
4	P13	4.9	0.1
4	P14	4.9	0.0
4	P15	4.6	0.0
4	P16	4.8	0.1
5	P1	4.8	0.1
5	P2	4.8	0.0
5	P3	4.8	0.1
5	P4	4.7	0.1
5	P5	5.0	0.1
5	P6	4.7	0.0
5	P7	4.7	0.3
5	P8	4.8	0.1
5	P9	5.1	0.0
5	P10	5.0	0.1
5	P11	5.1	0.0
5	P12	5.1	0.0
5	P13	5.1	0.0
5	P14	4.9	0.0
5	P15	4.8	0.0
5	P16	4.7	0.1

EQUIPMENT AND CALIBRATION SCHEDULES

Equipment #: MO-01
Description: Micro-Ohmeter
Manufacturer: Keithley
Model: 580
Serial #: 0772740
Accuracy: See Manual
… Last Cal: 06/17/08, Next Cal: 06/17/09

Equipment #: MO-03
Description: Multimeter /Data Acquisition System
Manufacturer: Keithley
Model: 2700
Serial #: 0791975
Accuracy: See Manual
… Last Cal: 06/17/08, Next Cal: 06/17/09

Equipment #: MO-06
Description: Micro-Ohmeter
Manufacturer: Keithley
Model: 580
Serial #: 1110525
Accuracy: See Manual
… Last Cal: 06/17/2008, Next Cal: 06/17/2009

Equipment #: MO-07
Description: Multimeter / Data Acquistion System
Manufacturer: Keithley
Model: 2700
Serial #: 1116559
Accuracy: See Manual
… Last Cal: 6/17/2008, Next Cal: 6/17/2009

Equipment #: OV-03
Description: Cascade Tek Forced Air Oven
Manufacturer: Cascade Tek
Model: TFO-5
Serial #: 0500100
Accuracy: Temp. Stability: +/-.1C/C change in ambient
… Last Cal: 06/17/2009, Next Cal: 06/17/2010

Equipment #: THC-04
Description: Temperature/Humidity Chamber
Manufacturer: Thermotron
Model: SM-8-3800
Serial #: 37782
Accuracy: See Manual
… Last Cal: 04/07/2009, Next Cal: 04/07/2010

Equipment #: TCT-04
Description: Dillon Quantrol TC21 25-1000 mm/min series test stand
Manufacturer: Dillon Quantrol
Model: TC2 I series test stand
Serial #: 04-1041-04
Accuracy: Speed Accuracy: +/- 5% of indicated speed; Speed Accuracy: +/- 5% of indicated speed;
… Last Cal: 5/6/2008, Next Cal: 5/6/2009

Equipment #: HPM-01
Description: Hipot Megommeter
Manufacturer: Hipotronics
Model: H306B-A
Serial #: M9905004
Accuracy: 2 % Full Scale Accuracy
… Last Cal: 06/22/07, Next Cal: 06/22/08

Equipment #: STG-01
Description: Hipot Megometer Safety Test Cage
Manufacturer: Hipotronics
Model: TC-25
Serial #: M9910141
Accuracy: N/A
… Last Cal: No Calibration Required, Next Cal:

Equipment #: THC-01
Description: Temperature/Humidity Chamber
Manufacturer: Thermotron
Model: SM-8-7800
Serial #: 30676
Accuracy: See Manual
… Last Cal: 04/07/2009, Next Cal: 04/07/2010

Equipment #: TCT-03
Description: Dillon Quantrol TC2 Test Stand
Manufacturer: Dillon Quantrol
Model: TC2
Serial #: 0772740
Accuracy: Speed Accuracy: +/- 5% of indicated speed; Displacement: +/- 5 micrometers.
… Last Cal: 5/6/2008, Next Cal: 5/6/2009

Equipment #: PS-07
Description: 20 V, 120 A DC Power Supply - AutoRanging SO/HPIB
Manufacturer: Hewlett Packard / Agilent
Model: AT-6031A
Serial #: 2721A00648
Accuracy: See Manual Current Carrying Capacity (CCC) Chamber
… Last Cal: 06/16/2008, Next Cal: 06/16/2009