



Project Number: EPLSP		Tracking Code: TC0814-EPLSP-1642	
Requested by: Corey Rose		Date: 4/1/2008	Product Rev: 1
Part #: ERI8-031-S-D-RA/EPLSP-031 less the cable		Lot #: 04012008	Tech: Gary Lomax, Rodney Riley, & Eric Fox
Part description: Edge Rate I/O			Qty to test: 75
Test Start: 4/1/2008	Test Completed: 7/15/2008		

EPLSP Cable Interconnect

PART DESCRIPTION

ERI8-031-S-D-RA

Mated with

EPLSP-031 less the cable

Tracking Code: TC0814-EPLSP-1642	Part #: ERI8-031-S-D-RA/EPLSP-031 less the cable
Part description: Edge Rate I/O	

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

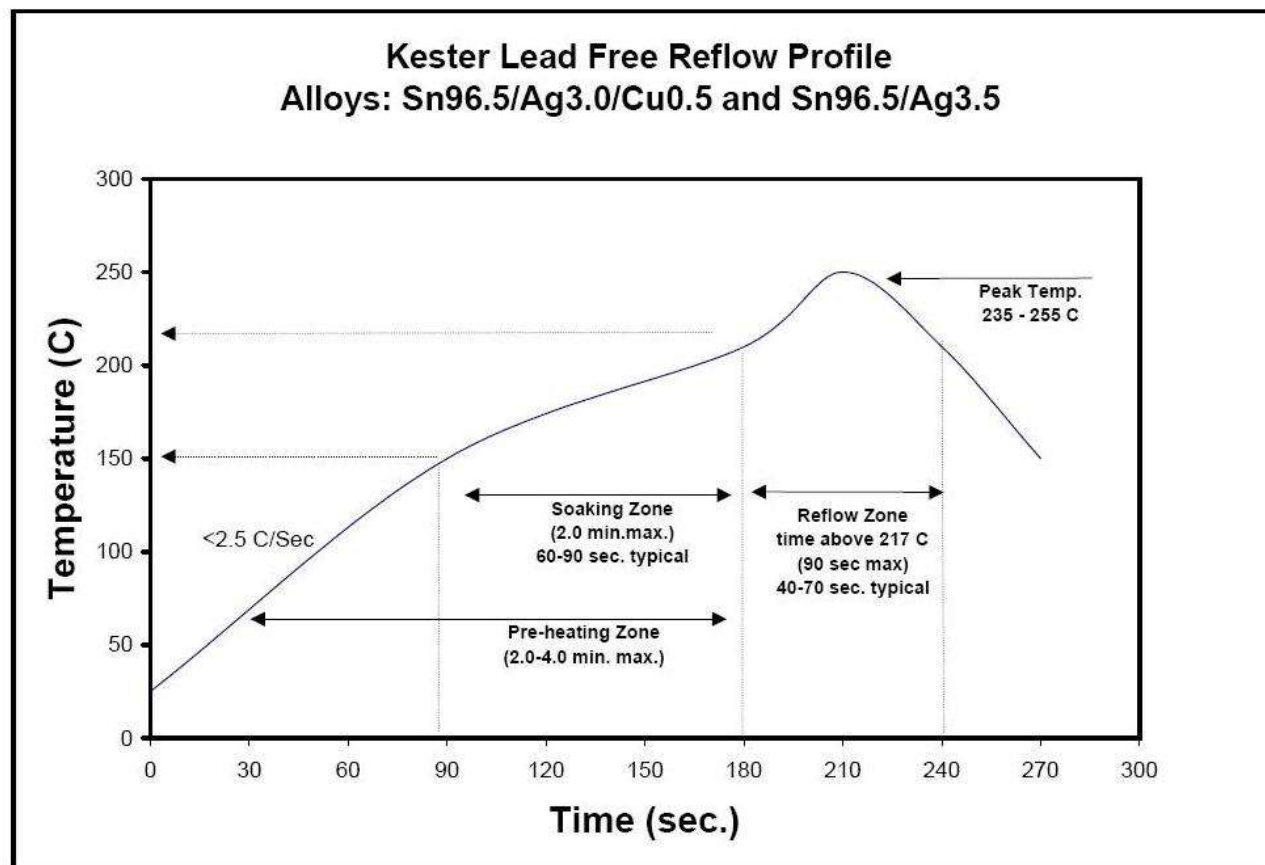
To perform the following tests: Test per the EPLSP Cable Interconnect test plan.

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-100861-TST-XX, PCB100865-TST-XX

TYPICAL OVEN PROFILE (Soldering Parts to Test Boards)

Tracking Code: TC0814-EPLSP-1642	Part #: ERI8-031-S-D-RA/EPLSP-031 less the cable
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FLOWCHARTS

Current Carrying Capacity

3 Mated Assemblies Each

TEST STEP	GROUP A 3 Mated Assemblies 2 CONTACT POWERED	GROUP B 3 Mated Assemblies 4 CONTACTS POWERED	GROUP C 3 Mated Assemblies 6 CONTACTS POWERED	GROUP D 3 Mated Assemblies 8 CONTACTS POWERED	GROUP E 3 Mated Assemblies ALL CONTACTS POWERED
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

Mating/Unmating/Gaps/Normal Force/Deflection Force

TEST STEP	GROUP A Signal Contacts 10 Boards
01	Contact gaps
02	Mating / Unmating
03	Data Review
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

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

FLOWCHARTS Continued**Durability/Thermal Age/Cyclic Humidity**

TEST STEP	GROUP A 200 Points 200 Cycles	GROUP B 200 Points 500 Cycles
01	LLCR-1	LLCR-1
02	Data Review	Data Review
03	200 Cycles	500 Cycles
04	LLCR-2	LLCR-2
05	Data Review	Data Review
06	Thermal Age	Thermal Age
07	LLCR-3	LLCR-3
08	Data Review	Data Review
09	Cyclic Humidity	Cyclic Humidity
10	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

IR / DWV

TEST STEP	GROUP A 2 Boards Ambient	GROUP B1 2 Boards Ambient	GROUP B2 2 Boards Thermal	GROUP B3 2 Boards Humidity
01	IR	DWV/Working Voltage	Thermal Aging	Humidity
02	Data Review		DWV/Working Voltage	DWV/Working Voltage
03	Thermal Aging			
04	IR			
05	Data Review			
06	Humidity			
07	IR			

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

IR = EIA-364-21

DWV = EIA-364-20

Tracking Code: TC0814-EPLSP-1642	Part #: ERI8-031-S-D-RA/EPLSP-031 less the cable
Part description: Edge Rate I/O	

FLOWCHARTS Continued

Gas Tight

TEST STEP	GROUP A 200 Points (min)
01	LLCR-1
02	Gas Tight
03	LLCR-2

Gas Tight = EIA-364-36A

LLCR = EIA-364-23, LLCR

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

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° C
 - c. 95° C
 - d. 115° 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.

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. Rate of Application 500 V/Sec
 - iii. 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. $\leq +5.0$ 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 $+2000$ 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. $\leq +5.0$ 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 $+2000$ 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° C
 - ix. The final LLCR shall be conducted within 1 hour after drying.

RESULTS

Temperature Rise, CCC at a 20% de-rating

- CCC for a 30°C Temperature Rise -----1.7A per contact with 2 adjacent contacts powered
- CCC for a 30°C Temperature Rise -----1.1A per contact with 4 adjacent contacts powered
- CCC for a 30°C Temperature Rise -----1.2A per contact with 6 adjacent contacts powered
- CCC for a 30°C Temperature Rise -----1.0A per contact with 8 adjacent contacts powered
- CCC for a 30°C Temperature Rise -----0.5A per contact with 40 adjacent contacts powered

Contact Gaps

- Initial
 - Min----- 1.28 mm
 - Max ----- 1.41 mm
- After 100 Cycles
 - Min----- 1.40 mm
 - Max ----- 1.64 mm
- Thermal
 - Min----- 1.40 mm
 - Max ----- 1.65 mm
- Humidity
 - Min----- 1.51 mm
 - Max ----- 1.68 mm

Mating – Unmating Forces (lbs)

- Initial
 - Mating
 - Min----- 3.6 lbs
 - Max-----11.0 lbs
 - Unmating
 - Min----- 2.3 lbs
 - Max----- 5.9 lbs
- After 100 Cycles
 - Mating
 - Min----- 2.4 lbs
 - Max----- 5.0 lbs
 - Unmating
 - Min----- 1.7 lbs
 - Max----- 3.6 lbs
- Thermal
 - Mating
 - Min----- 2.3 lbs
 - Max----- 4.9 lbs
 - Unmating
 - Min----- 1.9 lbs
 - Max----- 4.0 lbs
- Humidity
 - Mating
 - Min----- 2.3 lbs
 - Max----- 4.6 lbs
 - Unmating
 - Min----- 1.9 lbs
 - Max----- 4.0 lbs

Insulation Resistance minimums, IR

- **Initial**
 - **Mated**-----100,000 Meg Ω ----- Pass
 - **Unmated** -----100,000 Meg Ω
- **Thermal**
 - **Mated**-----100,000 Meg Ω
 - **Unmated** -----100,000 Meg Ω
- **Humidity**
 - **Mated**----- 75,000 Meg Ω
 - **Unmated** ----- 50,000 Meg Ω

Dielectric Withstanding Voltage minimums, DWV

- **Initial**
 - **Breakdown**
 - **Mated**-----900 VAC
 - **Unmated**-----920 VAC
 - **DWV**
 - **Mated**-----675 VAC
 - **Unmated**-----690 VAC
 - **Working voltage**
 - **Mated**-----225 VAC
 - **Unmated**-----230 VAC
- **Thermal**
 - **Breakdown**
 - **Mated**-----920 VAC
 - **Unmated**----- 1040 VAC
 - **DWV**
 - **Mated**-----690 VAC
 - **Unmated**-----780 VAC
 - **Working voltage**
 - **Mated**-----230 VAC
 - **Unmated**-----260 VAC
- **Humidity**
 - **Breakdown**
 - **Mated**-----880 VAC
 - **Unmated**----- 1000 VAC
 - **DWV**
 - **Mated**-----660 VAC
 - **Unmated**-----750 VAC
 - **Working voltage**
 - **Mated**-----220 VAC
 - **Unmated**-----250 VAC

LLCR Durability (200 LLCR test points)

- **Initial** ----- 29.4 mOhms Max
- **Durability, 200 Cycles**
 - <= +5.0 mOhms ----- 200 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 ----- 197 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 ----- 1 Points ----- Marginal
 - +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
 - >+2000 mOhms ----- 0 Points ----- Open Failure
- **Humidity**
 - <= +5.0 mOhms ----- 196 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

*Sample #4 position #11 & Sample #5 position #4 were removed from the data because of foreign contamination deposits on the contacts.

LLCR Durability (200 LLCR test points)

- **Initial** ----- 28.3 mOhms Max
- **Durability, 500 Cycles**
 - <= +5.0 mOhms ----- 200 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 ----- 195 Points ----- Stable
 - +5.1 to +10.0 mOhms ----- 3 Points ----- Minor
 - +10.1 to +15.0 mOhms ----- 2 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 ----- 194 Points ----- Stable
 - +5.1 to +10.0 mOhms ----- 2 Points ----- Minor
 - +10.1 to +15.0 mOhms ----- 3 Points ----- Acceptable
 - +15.1 to +50.0 mOhms ----- 1 Points ----- Marginal
 - +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
 - >+2000 mOhms ----- 0 Points ----- Open Failure

Tracking Code: TC0814-EPLSP-1642	Part #: ERI8-031-S-D-RA/EPLSP-031 less the cable
Part description: Edge Rate I/O	

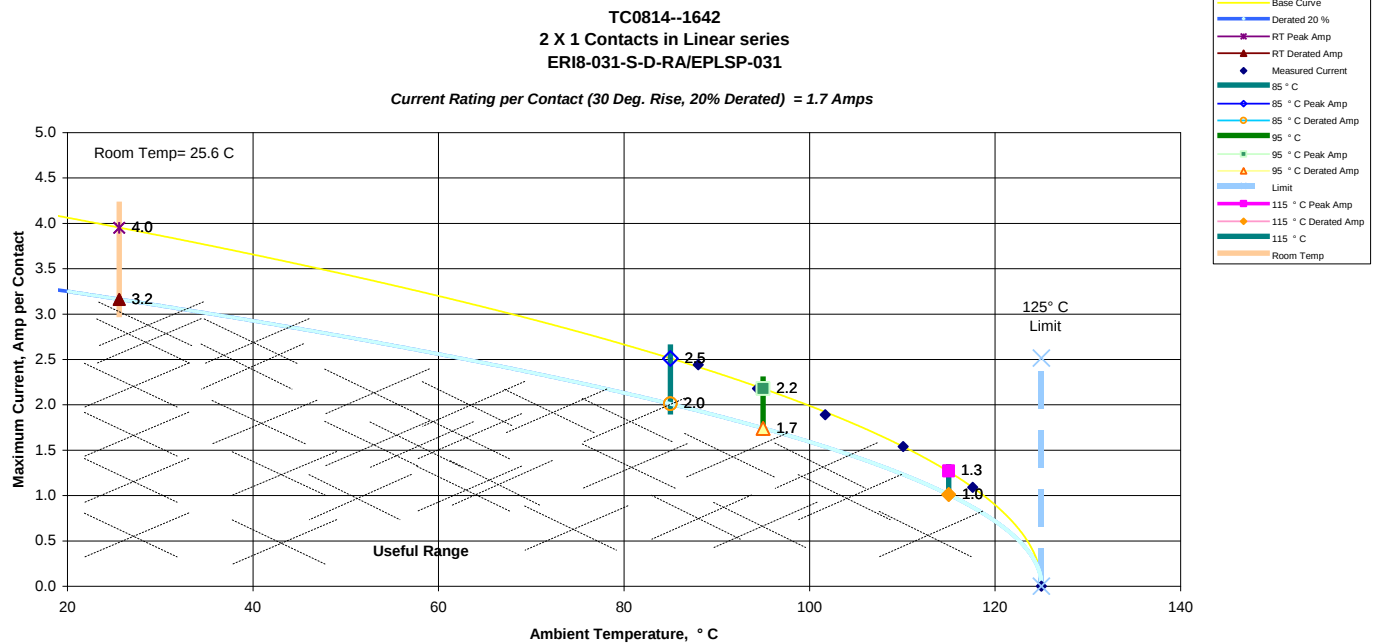
LLCR Gas Tight (200 LLCR test points)

- Initial ----- 44.6 mOhms Max
- Gas-Tight
 - <= +5.0 mOhms ----- 199 Points ----- Stable
 - +5.1 to +10.0 mOhms -----1 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

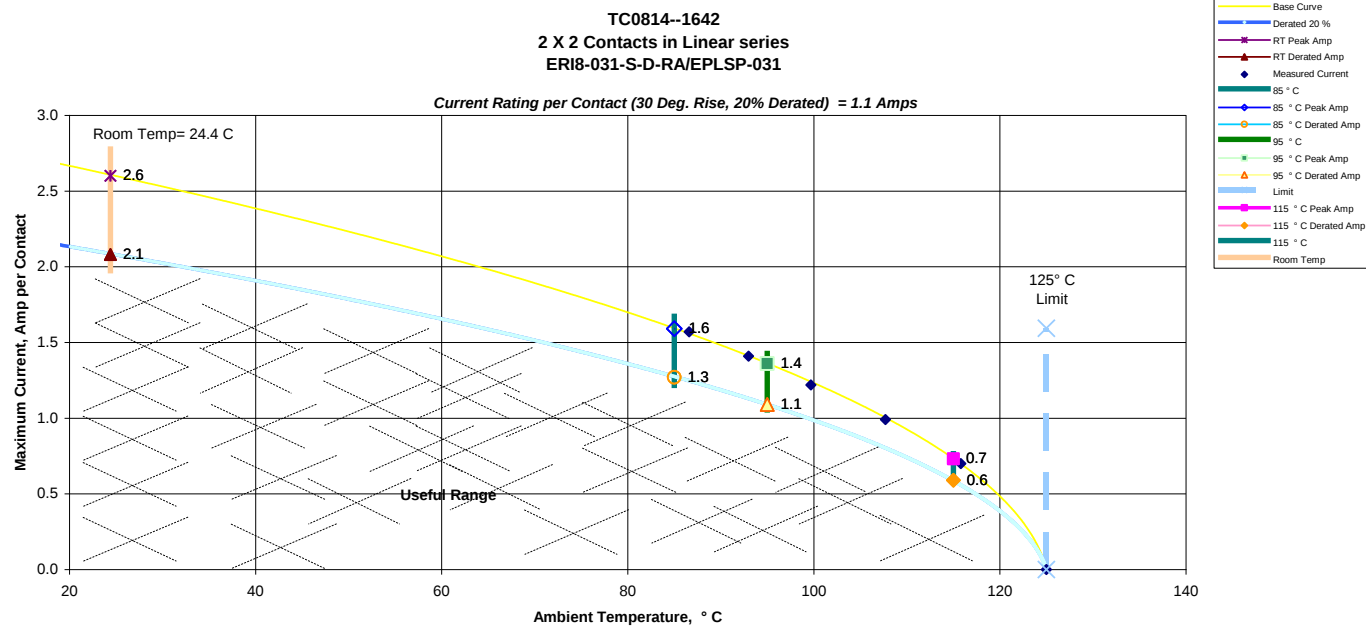
DATA SUMMARIES

TEMPERATURE RISE (Current Carrying Capacity, CCC):

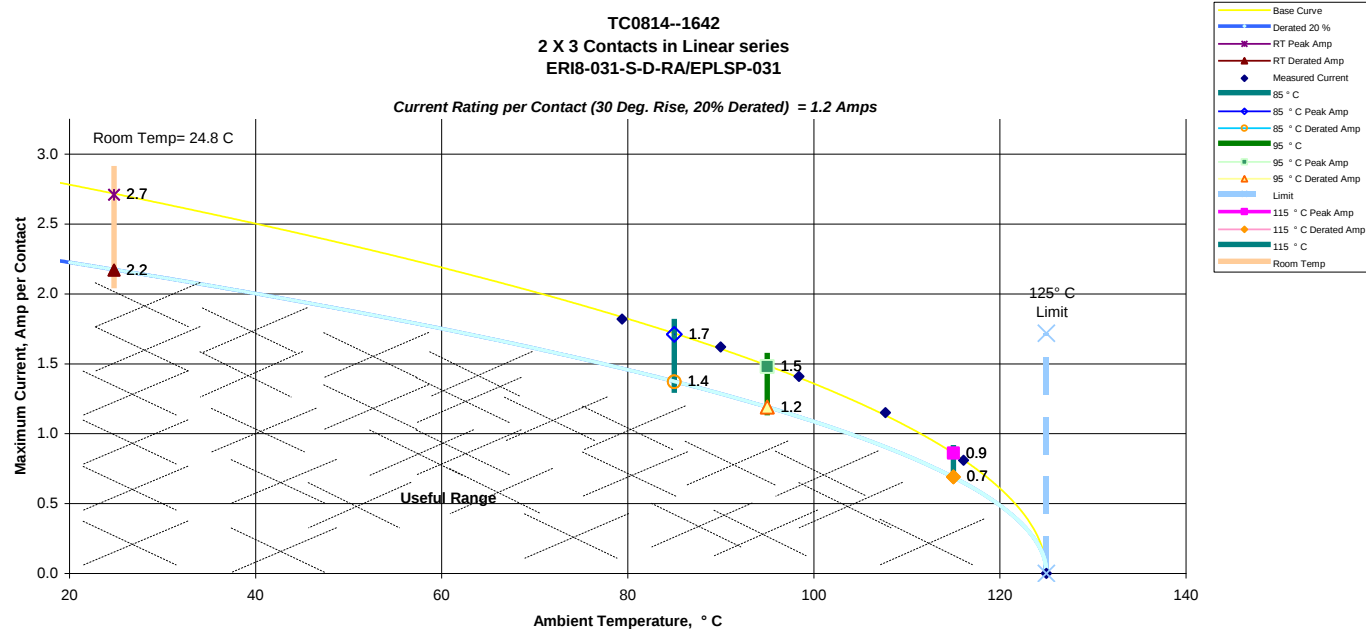
- 1) High quality thermocouples whose temperature slopes track one another were used for temperature monitoring.
- 2) The thermocouples were placed at a location to sense the maximum temperature generated during testing.
- 3) Temperature readings recorded are those for which three successive readings,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



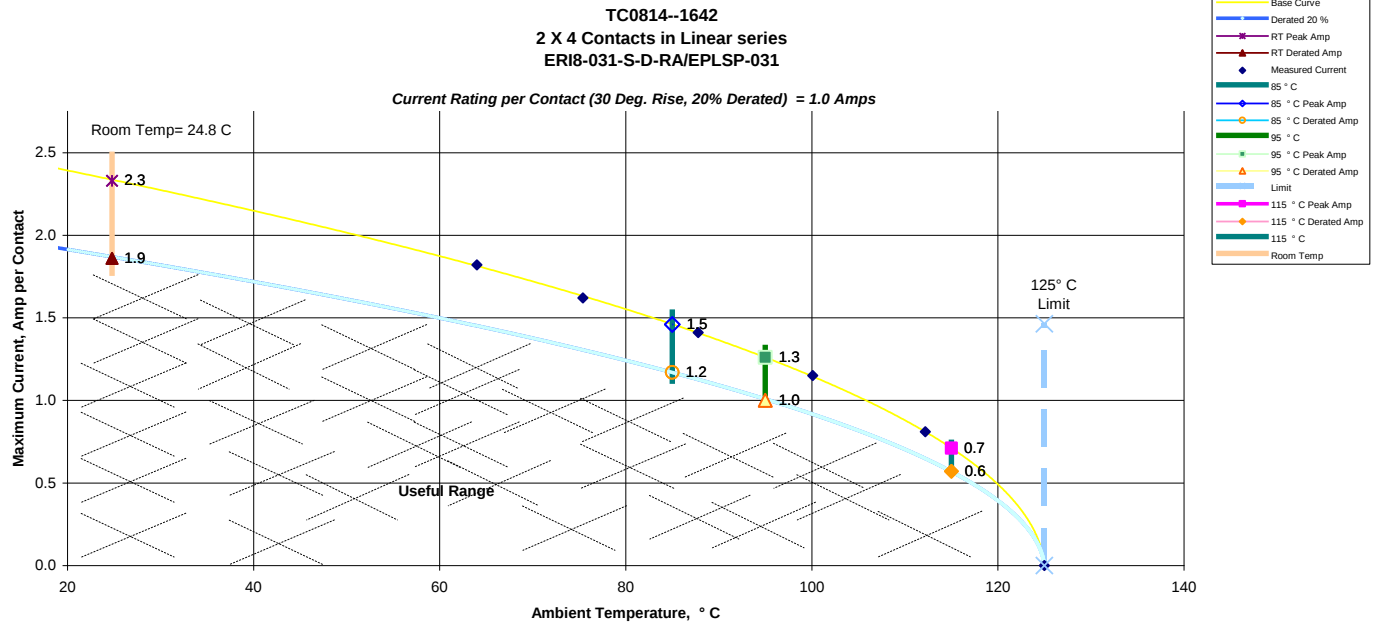
b. Linear configuration with four adjacent contacts powered



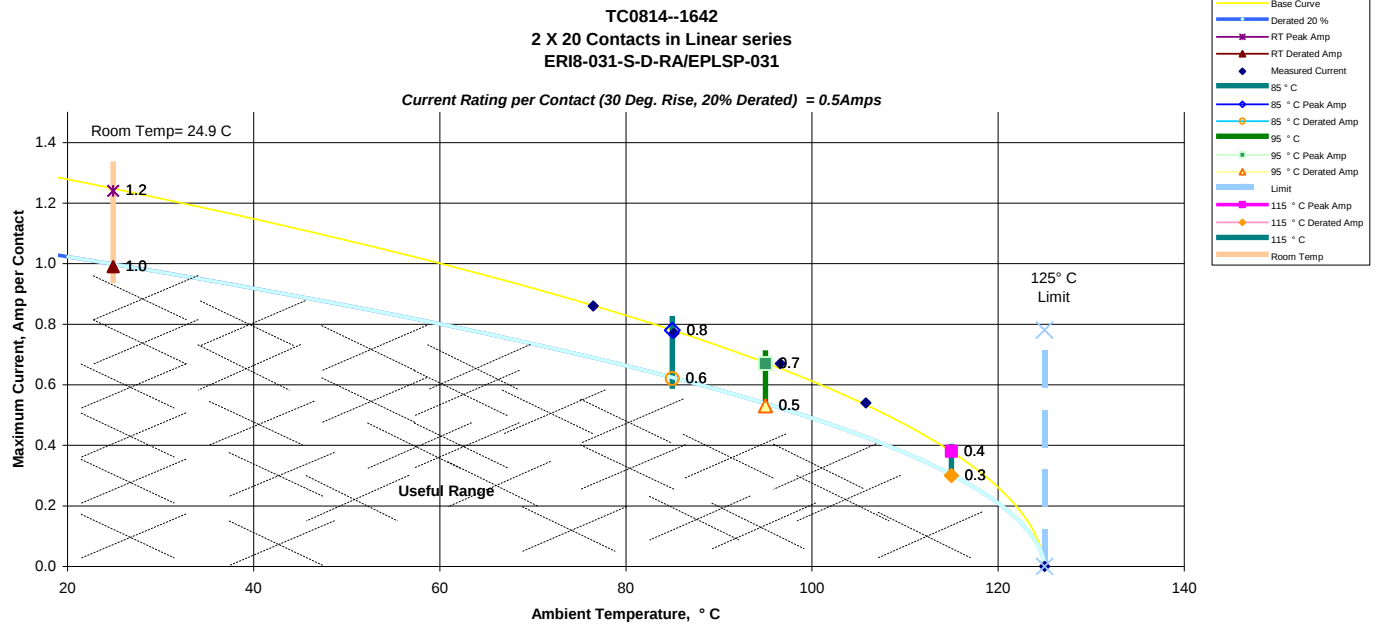
c. Linear configuration with six adjacent contacts powered



d. Linear configuration with eight adjacent contacts powered



e. Linear configuration with all adjacent contacts powered



DATA SUMMARIES Continued**CONTACT GAPS:**

Initial		After 100 Cycles		After Thermal		After Humidity	
Measured in mm		Measured in mm		Measured in mm		Measured in mm	
<i>Minimum</i>	1.2761	<i>Minimum</i>	1.4030	<i>Minimum</i>	1.4040	<i>Minimum</i>	1.5100
<i>Maximum</i>	1.4140	<i>Maximum</i>	1.6360	<i>Maximum</i>	1.6499	<i>Maximum</i>	1.6840
<i>Average</i>	1.3578	<i>Average</i>	1.5111	<i>Average</i>	1.5604	<i>Average</i>	1.6005
<i>St. Dev.</i>	0.0212	<i>St. Dev.</i>	0.0233	<i>St. Dev.</i>	0.0303	<i>St. Dev.</i>	0.0242
<i>Count</i>	310	<i>Count</i>	310	<i>Count</i>	310	<i>Count</i>	310

MATING/UNMATING:

	Initial				After 100 Cycles			
	Mating		Unmating		Mating		Unmating	
	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
Minimum	57.3	3.58	36.8	2.30	38.2	2.39	27.4	1.71
Maximum	175.2	11.0	94.4	5.9	79.7	5.0	56.8	3.6
Average	106.1	6.6	61.5	3.8	53.6	3.3	39.2	2.4
	After Thermal				After Humidity			
	Mating		Unmating		Mating		Unmating	
	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)	Force (Oz)	Force (Lbs)
Minimum	37.4	2.34	30.4	1.90	37.0	2.31	30.1	1.88
Maximum	78.9	4.9	63.8	4.0	73.1	4.6	63.8	4.0
Average	53.3	3.3	39.0	2.4	46.5	2.9	41.1	2.6

INSULATION RESISTANCE (IR):

	Signal to Signal		
	Mated	Unmated	
	ERI8/EPLSP	ERI8	EPLSP
Initial:	ERI8/EPLSP	ERI8	EPLSP
Minimum	100000	100000	Not Tested
Maximum	100000	100000	Not Tested
Average	100000	100000	Not Tested

	Signal to Ground		
	Mated	Unmated	
	ERI8/EPLSP	ERI8	EPLSP
Initial:	ERI8/EPLSP	ERI8	EPLSP
Minimum	100000	100000	Not Tested
Maximum	100000	100000	Not Tested
Average	100000	100000	Not Tested

	Signal to Signal		
	Mated	Unmated	
	ERI8/EPLSP	ERI8	EPLSP
Thermal:	ERI8/EPLSP	ERI8	EPLSP
Minimum	100000	100000	Not Tested
Maximum	100000	100000	Not Tested
Average	100000	100000	Not Tested

	Signal to Ground		
	Mated	Unmated	
	ERI8/EPLSP	ERI8	EPLSP
Thermal:	ERI8/EPLSP	ERI8	EPLSP
Minimum	100000	100000	Not Tested
Maximum	100000	100000	Not Tested
Average	100000	100000	Not Tested

Signal to Signal			
	<i>Mated</i>	<i>Unmated</i>	
Humidity:	ERI8/EPLSP	ERI8	EPLSP
Minimum	75000	50000	Not Tested
Maximum	100000	100000	Not Tested
Average	87500	75000	Not Tested

Signal to Ground			
	<i>Mated</i>	<i>Unmated</i>	
Humidity:	ERI8/EPLSP	ERI8	EPLSP
Minimum	100000	100000	Not Tested
Maximum	100000	100000	Not Tested
Average	100000	100000	Not Tested

DIELECTRIC WITHSTANDING VOLTAGE (DWV):

Initial DWV			
	<i>Mated</i>	<i>Unmated</i>	
Minimum:	ERI8/EPLSP	ERI8	EPLSP
Breakdown Voltage	900	920	Not Tested
DWV	675	690	Not Tested
Working Voltage	225	230	Not Tested

Thermal DWV			
	<i>Mated</i>	<i>Unmated</i>	
Minimum:	ERI8/EPLSP	ERI8	EPLSP
Breakdown Voltage	920	1040	Not Tested
DWV	690	780	Not Tested
Working Voltage	230	260	Not Tested

Humidity DWV			
	<i>Mated</i>	<i>Unmated</i>	
Minimum:	ERI8/EPLSP	ERI8	EPLSP
Breakdown Voltage	880	1000	Not Tested
DWV	660	750	Not Tested
Working Voltage	220	250	Not Tested

DATA SUMMARIES Continued**LLCR:**

- 1) A total of 200 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 $+2000$ mOhms ----- Unstable
 - f. $>+2000$ mOhms:----- Open Failure

mOhm values	Actual Initial	Delta 100 Cycles	Delta Thermal	Delta Humidity
Average	24.6	-0.3	0.4	0.3
St. Dev.	0.9	0.8	1.8	1.1
Min	22.8	-3.4	-3.0	-3.4
Max	29.4	4.1	21.8	5.6
Count	200	200	200	198

mOhm values	Actual Initial	Delta 100 Cycles	Delta Thermal	Delta Humidity
Average	24.9	-0.2	0.9	0.6
St. Dev.	0.8	0.7	1.6	2.4
Min	23.6	-3.1	-1.7	-2.4
Max	28.3	3.1	10.3	19.1
Count	200	200	200	200

DATA SUMMARIES Continued

GAS TIGHT:

- 1) A total of 200 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 $+2000$ mOhms:----- Unstable
 - f. $>+2000$ mOhms:----- Open Failure

mOhm values	Actual Initial	Delta Gas Tight
Average	25.7	0.0
St. Dev.	2.9	1.4
Min	23.5	-8.9
Max	44.6	5.5
Count	200	200

DATA**CONTACT GAPS:**

Initial										
Measured in mm										
Pos.#	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
1	0.05323	0.05237	0.05087	0.05252	0.053	0.05205	0.05205	0.05244	0.0537	0.05339
2	0.05363	0.05292	0.05126	0.05284	0.05307	0.05292	0.05252	0.05307	0.05221	0.05221
3	0.05315	0.05339	0.05307	0.05315	0.05386	0.05268	0.05229	0.05323	0.0541	0.05355
4	0.05433	0.05426	0.05307	0.0537	0.05394	0.05449	0.05347	0.05394	0.05323	0.05315
5	0.05237	0.05268	0.05276	0.053	0.0537	0.05237	0.05166	0.05315	0.05347	0.05339
6	0.05331	0.05268	0.0526	0.05331	0.053	0.0541	0.05347	0.0541	0.05284	0.05307
7	0.05276	0.05355	0.05276	0.05307	0.05363	0.05307	0.05237	0.05307	0.05363	0.05339
8	0.05481	0.05426	0.05315	0.05426	0.05394	0.05465	0.05449	0.0537	0.05378	0.05284
9	0.05426	0.05457	0.05386	0.05457	0.05457	0.0541	0.05347	0.05323	0.05496	0.05441
10	0.05449	0.05363	0.05323	0.05386	0.05402	0.05433	0.0541	0.0541	0.05386	0.053
11	0.05323	0.05315	0.05307	0.05355	0.05418	0.05252	0.05244	0.05378	0.05378	0.05315
12	0.05418	0.05355	0.05307	0.05378	0.0537	0.05457	0.05378	0.05402	0.05323	0.053
13	0.05426	0.05441	0.05363	0.0541	0.05457	0.05378	0.05363	0.05433	0.05489	0.05441
14	0.05536	0.05418	0.05331	0.05457	0.05441	0.05528	0.05449	0.0552	0.05473	0.05339
15	0.05441	0.05449	0.05386	0.05473	0.05496	0.0541	0.05402	0.05418	0.05473	0.05402
16	0.05481	0.0537	0.05378	0.05418	0.0541	0.05497	0.05386	0.05449	0.05418	0.05292
17	0.0541	0.05394	0.05339	0.0541	0.05457	0.05355	0.05323	0.05496	0.05457	0.05426
18	0.05441	0.05457	0.05315	0.05441	0.05394	0.05489	0.05441	0.05567	0.05433	0.05355
19	0.05378	0.0537	0.05307	0.0541	0.05402	0.05433	0.05331	0.05433	0.05496	0.05449
20	0.05363	0.05378	0.05221	0.05307	0.05355	0.05355	0.05339	0.05433	0.05347	0.05252
21	0.05378	0.05355	0.05213	0.05331	0.05386	0.0537	0.05268	0.05386	0.05347	0.05394
22	0.05402	0.05307	0.05197	0.0537	0.05276	0.05457	0.05331	0.05465	0.05307	0.05229
23	0.05331	0.053	0.0515	0.053	0.05292	0.053	0.05268	0.05481	0.05339	0.05284
24	0.0541	0.05292	0.05166	0.05276	0.05229	0.05284	0.05284	0.05426	0.05276	0.05221
25	0.05339	0.05323	0.05229	0.05307	0.05363	0.05315	0.05252	0.05315	0.053	0.05292
26	0.05433	0.05363	0.05252	0.05331	0.05276	0.05426	0.05355	0.05315	0.0526	0.05229
27	0.05363	0.05315	0.05315	0.05347	0.05355	0.05323	0.05268	0.05181	0.05339	0.05284
28	0.05378	0.05276	0.0526	0.05331	0.05237	0.05394	0.05331	0.05481	0.05213	0.05174
29	0.05402	0.05339	0.053	0.05307	0.05347	0.05315	0.05307	0.05331	0.05379	0.05268
30	0.0537	0.05244	0.05181	0.05213	0.05174	0.05308	0.05292	0.05426	0.05166	0.05111
31	0.05315	0.05307	0.05024	0.05284	0.05347	0.05284	0.05378	0.05237	0.05292	0.05385

DATA Continued

After 100 Cycles										
Measured in mm										
Pos.#	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
1	1.51	1.48	1.46	1.509	1.522	1.504	1.494	1.51	1.513	1.512
2	1.481	1.466	1.44	1.502	1.493	1.496	1.49	1.493	1.49	1.49
3	1.516	1.502	1.508	1.505	1.513	1.506	1.498	1.502	1.508	1.498
4	1.521	1.511	1.531	1.525	1.503	1.52	1.52	1.53	1.504	1.495
5	1.501	1.502	1.526	1.497	1.513	1.495	1.492	1.507	1.496	1.5
6	1.502	1.52	1.515	1.509	1.477	1.502	1.504	1.508	1.502	1.502
7	1.506	1.537	1.522	1.524	1.515	1.516	1.5	1.529	1.513	1.506
8	1.532	1.552	1.512	1.532	1.515	1.524	1.52	1.541	1.518	1.505
9	1.523	1.558	1.52	1.529	1.522	1.522	1.502	1.536	1.532	1.527
10	1.53	1.557	1.528	1.534	1.533	1.53	1.516	1.548	1.523	1.513
11	1.523	1.556	1.507	1.511	1.528	1.507	1.5	1.531	1.522	1.403
12	1.523	1.547	1.505	1.515	1.507	1.52	1.504	1.537	1.51	1.497
13	1.539	1.566	1.525	1.533	1.543	1.525	1.516	1.541	1.536	1.527
14	1.542	1.558	1.504	1.528	1.528	1.526	1.524	1.542	1.531	1.517
15	1.541	1.589	1.519	1.529	1.537	1.523	1.516	1.538	1.512	1.479
16	1.537	1.558	1.51	1.53	1.528	1.54	1.52	1.527	1.529	1.507
17	1.529	1.569	1.501	1.525	1.533	1.513	1.5	1.525	1.523	1.505
18	1.538	1.556	1.488	1.534	1.518	1.53	1.522	1.522	1.525	1.505
19	1.531	1.552	1.508	1.531	1.521	1.531	1.51	1.533	1.53	1.515
20	1.525	1.54	1.488	1.514	1.516	1.532	1.506	1.514	1.513	1.491
21	1.52	1.533	1.487	1.513	1.517	1.511	1.494	1.516	1.523	1.505
22	1.535	1.534	1.496	1.514	1.512	1.526	1.518	1.528	1.517	1.489
23	1.522	1.519	1.484	1.515	1.515	1.513	1.496	1.522	1.517	1.495
24	1.523	1.507	1.48	1.502	1.492	1.515	1.5	1.524	1.495	1.479
25	1.504	1.518	1.492	1.507	1.506	1.509	1.5	1.519	1.503	1.489
26	1.515	1.49	1.484	1.506	1.498	1.5	1.504	1.489	1.483	1.481
27	1.504	1.488	1.5	1.501	1.496	1.505	1.484	1.5	1.495	1.475
28	1.505	1.471	1.493	1.504	1.492	1.496	1.494	1.506	1.473	1.469
29	1.504	1.474	1.489	1.495	1.494	1.489	1.482	1.492	1.487	1.479
30	1.492	1.449	1.444	1.494	1.467	1.453	1.478	1.492	1.467	1.467
31	1.504	1.489	1.437	1.508	1.505	1.499	1.522	1.506	1.507	1.636

DATA Continued

After Thermal										
Measured in mm										
Pos.#	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
1	1.5379	1.4919	1.4799	1.5399	1.5479	1.5499	1.5139	1.5439	1.5239	1.5379
2	1.5439	1.5339	1.4819	1.5499	1.5119	1.5519	1.5259	1.5619	1.4239	1.5239
3	1.5599	1.5619	1.5359	1.5479	1.5779	1.5619	1.5379	1.5739	1.5499	1.5279
4	1.5799	1.5599	1.5699	1.5739	1.5639	1.5879	1.5599	1.5939	1.5539	1.5359
5	1.5519	1.5559	1.5699	1.5519	1.5739	1.5599	1.5499	1.5719	1.5519	1.5379
6	1.5639	1.5639	1.5619	1.5639	1.5579	1.5579	1.5559	1.5699	1.5299	1.5519
7	1.5639	1.5859	1.5639	1.5739	1.5759	1.5799	1.5639	1.5739	1.5639	1.5459
8	1.5759	1.5979	1.5579	1.5739	1.5759	1.5879	1.5739	1.5939	1.5679	1.5519
9	1.5659	1.5999	1.5659	1.5819	1.5939	1.5759	1.5499	1.5919	1.5799	1.5639
10	1.5839	1.5999	1.5719	1.5819	1.5959	1.5899	1.5739	1.5979	1.5839	1.5519
11	1.5819	1.5999	1.5279	1.5719	1.5919	1.5719	1.5619	1.5939	1.5759	1.4719
12	1.5879	1.5899	1.5459	1.5719	1.5739	1.5879	1.5639	1.5939	1.5619	1.5459
13	1.5919	1.6159	1.5599	1.5899	1.5999	1.5959	1.5699	1.5959	1.5959	1.5719
14	1.5919	1.5999	1.5479	1.5119	1.5739	1.5959	1.5779	1.5919	1.5799	1.5559
15	1.5899	1.6339	1.5499	1.5859	1.5939	1.5959	1.5799	1.5939	1.5659	1.5299
16	1.5939	1.6039	1.5419	1.5959	1.5919	1.6079	1.5779	1.5839	1.5759	1.5559
17	1.5859	1.6079	1.5299	1.5799	1.5879	1.5859	1.5679	1.5839	1.5639	1.5559
18	1.5859	1.5579	1.404	1.5779	1.5739	1.5959	1.5759	1.5879	1.5759	1.5519
19	1.5839	1.6079	1.5479	1.5799	1.5819	1.5939	1.5739	1.5839	1.5879	1.5439
20	1.5779	1.5839	1.5359	1.5539	1.5819	1.5959	1.5639	1.5839	1.5759	1.5439
21	1.5779	1.5859	1.5359	1.5739	1.5739	1.5819	1.5599	1.5799	1.5679	1.5539
22	1.5839	1.5959	1.5319	1.5499	1.5799	1.5979	1.5779	1.5819	1.5699	1.5379
23	1.5859	1.5799	1.5279	1.5619	1.5779	1.5799	1.5639	1.5719	1.5759	1.5279
24	1.5779	1.5739	1.4879	1.5679	1.5539	1.5899	1.5539	1.5759	1.5499	1.5319
25	1.5739	1.5639	1.5319	1.5699	1.4959	1.5719	1.5679	1.5739	1.5659	1.5359
26	1.5779	1.4879	1.5059	1.5739	1.5339	1.5839	1.5699	1.5519	1.5539	1.5359
27	1.5579	1.5539	1.5359	1.5579	1.5339	1.5619	1.5399	1.5619	1.5499	1.5139
28	1.5519	1.5239	1.5359	1.5519	1.5379	1.5519	1.5599	1.5539	1.5379	1.5139
29	1.5519	1.5279	1.5539	1.5339	1.5359	1.5499	1.5399	1.5459	1.5399	1.5099
30	1.5399	1.4959	1.5079	1.5179	1.4999	1.5179	1.4859	1.5259	1.5159	1.5059
31	1.5279	1.5359	1.4499	1.5199	1.5199	1.5439	1.5499	1.5319	1.5319	1.6499

DATA Continued

After Humidity										
Measured in mm										
Pos.#	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
1	1.567942	1.553972	1.526032	1.574038	1.57988	1.574038	1.561846	1.577848	1.561846	1.585976
2	1.563878	1.567942	1.535938	1.57988	1.57607	1.588008	1.57988	1.59004	1.567942	1.572006
3	1.583944	1.583944	1.588008	1.585976	1.595882	1.59004	1.572006	1.59004	1.581912	1.57988
4	1.588008	1.595882	1.622044	1.601978	1.599946	1.609852	1.60782	1.609852	1.588008	1.577848
5	1.595882	1.59004	1.615948	1.588008	1.597914	1.59385	1.577848	1.599946	1.581912	1.588008
6	1.620012	1.60782	1.606042	1.591818	1.585976	1.595882	1.599946	1.60782	1.588008	1.597914
7	1.599946	1.625854	1.606042	1.611884	1.611884	1.61798	1.591818	1.615948	1.599946	1.59385
8	1.613916	1.638046	1.60782	1.613916	1.615948	1.609852	1.611884	1.63195	1.609852	1.59004
9	1.622044	1.633982	1.611884	1.622044	1.609852	1.615948	1.609852	1.636014	1.613916	1.620012
10	1.623822	1.633982	1.601978	1.622044	1.627886	1.627886	1.622044	1.629918	1.615948	1.595882
11	1.611884	1.649984	1.597914	1.611884	1.623822	1.606042	1.60401	1.622044	1.611884	1.531874
12	1.60782	1.625854	1.59385	1.609852	1.606042	1.615948	1.611884	1.629918	1.606042	1.595882
13	1.609852	1.643888	1.60401	1.625854	1.625854	1.627886	1.601978	1.638046	1.636014	1.615948
14	1.625854	1.636014	1.595882	1.613916	1.623822	1.622044	1.622044	1.625854	1.615948	1.591818
15	1.620012	1.657858	1.595882	1.623822	1.623822	1.622044	1.611884	1.629918	1.615948	1.577848
16	1.63195	1.638046	1.601978	1.622044	1.629918	1.63195	1.620012	1.627886	1.620012	1.601978
17	1.623822	1.638046	1.59004	1.625854	1.620012	1.620012	1.601978	1.623822	1.611884	1.611884
18	1.615948	1.636014	1.583944	1.625854	1.613916	1.620012	1.629918	1.620012	1.622044	1.59004
19	1.61798	1.643888	1.595882	1.613916	1.609852	1.615948	1.60782	1.627886	1.629918	1.601978
20	1.615948	1.615948	1.574038	1.613916	1.611884	1.625854	1.606042	1.623822	1.609852	1.59004
21	1.609852	1.627886	1.574038	1.615948	1.613916	1.611884	1.597914	1.615948	1.60401	1.585976
22	1.627886	1.622044	1.585976	1.622044	1.611884	1.625854	1.627886	1.61798	1.609852	1.591818
23	1.60782	1.61798	1.57988	1.611884	1.60782	1.61798	1.611884	1.609852	1.609852	1.59385
24	1.620012	1.601978	1.57607	1.595882	1.59385	1.60782	1.59385	1.613916	1.597914	1.574038
25	1.59385	1.613916	1.588008	1.60401	1.601978	1.620012	1.606042	1.611884	1.599946	1.581912
26	1.597914	1.595882	1.57988	1.601978	1.591818	1.60782	1.611884	1.581912	1.591818	1.574038
27	1.591818	1.583944	1.581912	1.59004	1.59004	1.597914	1.577848	1.59004	1.57607	1.56591
28	1.60782	1.56591	1.583944	1.585976	1.57988	1.581912	1.591818	1.59004	1.57607	1.556004
29	1.581912	1.561846	1.57607	1.572006	1.572006	1.57988	1.572006	1.577848	1.57607	1.563878
30	1.56591	1.528064	1.529842	1.55194	1.53797	1.542034	1.567942	1.561846	1.544066	1.53797
31	1.57607	1.563878	1.51003	1.558036	1.553972	1.572006	1.59385	1.574038	1.569974	1.68402

DATA Continued**MATING/UNMATING:**

Sample#	Initial		After 100 Cycles		After Thermal		After Humidity	
	<u>Mating</u>	<u>Unmating</u>	<u>Mating</u>	<u>Unmating</u>	<u>Mating</u>	<u>Unmating</u>	<u>Mating</u>	<u>Unmating</u>
1	9.60	2.66	2.63	1.71	4.93	3.04	4.57	2.87
2	5.47	4.29	2.39	1.75	3.46	1.90	2.33	1.88
3	10.95	4.20	3.37	2.92	4.78	3.99	3.39	3.99
4	4.65	3.85	2.80	2.48	2.80	2.56	2.43	2.54
5	8.24	4.10	2.61	2.01	2.94	1.91	2.64	2.89
6	5.66	4.33	2.63	2.12	3.55	2.54	3.14	2.50
7	4.88	3.17	4.85	3.02	3.47	2.26	2.91	2.67
8	6.10	3.66	4.98	3.55	2.36	2.27	2.64	2.18
9	7.18	5.90	3.42	2.23	2.34	1.91	2.31	1.89
10	3.58	2.30	3.80	2.70	2.69	1.99	2.73	2.29

INSULATION RESISTANCE (IR):

	Signal to Signal	
	<u>Mated</u>	<u>Unmated</u>
Minimum	ERI8/EPLSP	ERI8
Initial	100000	100000
Thermal	100000	100000
Humidity	75000	50000

	Signal to Ground	
	<u>Mated</u>	<u>Unmated</u>
Minimum	ERI8/EPLSP	ERI8
Initial	100000	100000
Thermal	100000	100000
Humidity	100000	100000

DIELECTRIC WITHSTANDING VOLTAGE (DWV):

		DWV		
		<u>Mated</u>	<u>Unmated</u>	<u>Unmated</u>
Minimum		ERI8/EPLSP	ERI8	EPLSP
Breakdown Voltage	Initial	900	920	Not Tested
	Thermal	920	1040	Not Tested
	Humidity	880	1000	Not Tested
DWV	Initial	675	690	Not Tested
	Thermal	690	780	Not Tested
	Humidity	660	750	Not Tested
Working Voltage	Initial	225	230	Not Tested
	Thermal	230	260	Not Tested
	Humidity	220	250	Not Tested

DATA Continued**LLCR:**

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	100 Cycles	Thermal	Humidity
1	P1	23.3	-0.3	-0.1	0.2
1	P2	23.8	-1.0	-0.7	0.4
1	P3	23.9	-0.6	-0.5	-0.5
1	P4	24.3	-1.2	0.0	0.4
1	P5	23.4	-0.5	-0.3	0.6
1	P6	23.2	0.0	0.2	0.5
1	P7	23.6	-0.4	-0.5	0.6
1	P8	24.4	-0.8	-0.1	0.1
1	P9	24.7	0.3	0.3	0.0
1	P10	24.6	0.1	1.2	0.9
1	P11	24.8	0.8	0.5	0.1
1	P12	25.3	0.2	0.6	0.3
1	P13	26.1	-1.0	-1.4	-1.4
1	P14	25.3	-0.6	-0.4	0.1
1	P15	24.8	-0.3	0.2	0.1
1	P16	24.7	-0.4	0.0	-0.1
1	P17	24.8	-0.5	-0.3	0.4
1	P18	24.7	-0.9	-0.2	-0.2
1	P19	23.3	0.2	0.3	4.5
1	P20	23.2	0.1	0.2	2.5
1	P21	23.8	-0.6	-0.3	1.1
1	P22	23.5	-0.7	-0.3	-0.1
1	P23	23.4	-0.4	0.6	0.2
1	P24	23.1	-0.2	0.2	1.1
1	P25	23.4	-0.1	-0.2	-0.1
2	P1	23.8	-0.4	0.0	0.2
2	P2	23.7	0.5	1.3	1.1
2	P3	24.7	-0.8	-0.3	0.1
2	P4	24.7	-0.8	-0.4	2.1
2	P5	24.1	-0.3	1.2	0.1
2	P6	23.6	-0.2	0.2	0.1
2	P7	24.8	-0.7	5.8	2.7
2	P8	23.8	-0.1	1.0	0.3
2	P9	25.5	0.2	0.8	0.0
2	P10	25.7	-0.3	0.9	0.4
2	P11	25.7	0.5	1.3	0.9
2	P12	25.3	-0.2	1.5	0.5
2	P13	25.5	0.3	2.6	0.1
2	P14	25.5	0.4	1.7	0.2
2	P15	29.4	0.7	0.9	1.5
2	P16	25.2	0.6	1.7	0.2

2	P17	25.8	-0.6	-0.1	-0.7
2	P18	25.9	-0.4	-0.2	-0.8
2	P19	23.7	0.1	0.7	0.7
2	P20	23.7	0.1	0.3	0.2
2	P21	24.7	-1.0	-0.3	0.2
2	P22	23.5	0.0	0.9	1.1
2	P23	23.6	-0.3	0.5	1.1
2	P24	24.0	-0.1	0.8	0.5
2	P25	24.9	-1.0	-0.5	-0.9
3	P1	22.8	1.0	1.5	1.6
3	P2	23.2	0.4	0.3	1.0
3	P3	23.2	0.4	1.2	2.9
3	P4	23.8	0.2	1.3	1.9
3	P5	23.8	0.1	1.2	1.0
3	P6	23.1	1.1	0.9	1.6
3	P7	25.2	-1.5	-0.7	0.7
3	P8	24.8	-1.3	-0.4	0.7
3	P9	24.6	0.4	0.4	-0.1
3	P10	24.4	0.8	1.0	0.3
3	P11	24.5	0.8	0.6	1.2
3	P12	24.6	0.2	0.3	0.1
3	P13	24.9	-0.1	0.2	-0.2
3	P14	24.9	0.2	0.7	0.4
3	P15	24.6	1.1	1.1	0.5
3	P16	24.9	0.0	0.4	0.1
3	P17	24.5	-0.1	0.9	0.3
3	P18	25.3	-0.9	0.5	-0.7
3	P19	23.3	0.6	1.0	1.1
3	P20	23.4	-0.1	0.5	0.3
3	P21	25.0	-1.4	-0.4	-0.7
3	P22	23.7	-0.1	0.2	0.0
3	P23	24.1	-0.7	0.6	-0.3
3	P24	24.5	-0.9	-0.7	-0.8
3	P25	23.1	0.0	0.3	0.7
4	P1	23.8	-0.2	0.0	-0.1
4	P2	24.9	-1.4	-0.7	-0.7
4	P3	23.7	-0.4	0.0	0.5
4	P4	25.0	-1.4	-0.4	0.3
4	P5	25.4	-2.0	-1.1	-0.8
4	P6	24.0	-0.9	0.0	0.0
4	P7	24.1	-1.0	-0.3	-0.5
4	P8	23.9	-0.9	-0.1	0.0
4	P9	24.8	1.7	0.3	-0.5
4	P10	24.6	0.4	0.2	-0.3
4	P11	25.0	4.1	21.8	
4	P12	25.3	-0.3	-0.4	-1.0
4	P13	24.9	-0.2	-0.1	-0.7
4	P14	24.6	0.1	-0.2	-0.4
4	P15	25.2	0.1	0.1	-0.4

4	P16	24.6	0.4	0.9	0.2
4	P17	25.0	-0.3	0.3	-0.5
4	P18	25.3	-0.9	0.6	-0.7
4	P19	23.5	-0.3	0.0	0.2
4	P20	24.1	-0.8	-0.6	-0.2
4	P21	23.3	-0.2	0.2	0.1
4	P22	24.8	-1.3	-0.9	-1.0
4	P23	24.4	-1.1	-0.2	0.4
4	P24	23.6	-0.1	0.5	0.8
4	P25	23.9	-0.8	-0.4	-0.3
5	P1	25.1	-1.3	-0.6	-0.5
5	P2	24.2	-0.4	0.6	1.1
5	P3	24.6	-0.7	0.1	1.2
5	P4	25.2	-1.3	-0.3	
5	P5	25.3	-1.3	-0.7	5.5
5	P6	24.8	-0.8	0.0	0.7
5	P7	25.4	-1.1	-1.0	-0.1
5	P8	25.2	-1.0	-0.5	3.9
5	P9	25.8	-0.6	0.4	-0.8
5	P10	25.1	0.0	1.3	1.2
5	P11	25.2	0.5	1.0	-0.2
5	P12	25.6	-0.4	2.5	-0.5
5	P13	25.5	-0.1	1.0	-0.2
5	P14	25.1	0.3	0.8	-0.3
5	P15	25.3	-0.3	1.1	-0.6
5	P16	25.2	0.5	1.3	-0.1
5	P17	25.7	-0.5	0.1	1.5
5	P18	28.1	-2.3	-1.3	-2.1
5	P19	24.8	-0.2	-0.2	1.4
5	P20	25.2	-0.2	-0.3	0.9
5	P21	24.1	-0.6	-0.3	5.6
5	P22	26.0	-1.1	-1.2	-0.3
5	P23	25.7	-1.9	-1.3	-0.8
5	P24	25.3	-1.2	-0.6	-0.4
5	P25	24.6	-0.8	-0.3	0.6
6	P1	24.7	-0.7	-0.6	-0.4
6	P2	24.4	-0.8	-0.9	0.6
6	P3	23.7	0.7	1.0	1.9
6	P4	24.3	0.3	1.7	2.6
6	P5	23.9	0.1	0.7	1.2
6	P6	24.6	-1.1	0.1	1.3
6	P7	24.4	-0.8	-0.2	0.3
6	P8	24.1	0.0	0.4	1.5
6	P9	25.4	0.3	0.3	-0.5
6	P10	25.3	0.3	1.0	0.1
6	P11	26.1	-1.3	-0.1	-1.1
6	P12	24.8	-0.3	0.6	-0.3
6	P13	25.5	-0.2	-0.1	-0.9
6	P14	24.7	1.1	0.8	0.2

6	P15	27.4	-1.9	-1.7	-2.4
6	P16	24.8	0.4	0.6	0.0
6	P17	24.8	0.8	1.4	0.7
6	P18	25.2	0.1	0.6	0.7
6	P19	23.4	0.4	2.3	2.6
6	P20	24.3	0.8	1.0	1.8
6	P21	23.6	0.8	1.5	1.6
6	P22	24.0	0.2	0.7	2.0
6	P23	23.7	0.8	1.0	1.6
6	P24	24.1	0.4	0.1	-0.3
6	P25	24.0	0.5	0.4	1.3
7	P1	23.6	0.6	0.9	0.4
7	P2	24.0	0.0	0.5	0.1
7	P3	23.9	-0.3	0.8	-0.4
7	P4	24.2	-0.2	5.4	0.6
7	P5	23.7	0.0	1.7	-0.4
7	P6	23.8	-0.5	0.3	-0.1
7	P7	24.5	-0.4	1.0	-0.3
7	P8	24.1	-0.4	1.5	0.1
7	P9	25.4	-0.2	-0.2	-0.7
7	P10	25.4	-1.1	-0.2	-0.9
7	P11	25.8	-0.9	-0.6	-1.1
7	P12	25.0	-0.5	-0.1	-0.9
7	P13	25.8	-1.0	-1.1	-1.6
7	P14	25.5	0.1	-0.2	-0.6
7	P15	29.1	-3.4	-3.0	-3.4
7	P16	25.2	-0.4	-0.6	-0.9
7	P17	25.6	-1.0	0.4	-0.4
7	P18	24.9	-0.5	0.6	0.4
7	P19	23.3	0.0	0.0	0.3
7	P20	23.5	-0.3	0.5	2.1
7	P21	24.6	-0.9	2.4	-0.8
7	P22	23.4	0.1	1.0	0.1
7	P23	23.9	-0.1	1.9	0.8
7	P24	23.8	0.3	0.9	1.0
7	P25	24.1	-0.9	-0.6	-0.5
8	P1	25.8	-1.4	0.7	1.2
8	P2	24.3	0.3	-1.4	0.1
8	P3	24.3	-0.1	3.0	0.9
8	P4	25.0	-1.1	0.9	-0.1
8	P5	24.8	-0.4	-1.9	1.1
8	P6	24.1	0.1	1.1	0.2
8	P7	24.9	-0.5	0.3	-0.3
8	P8	24.7	-0.6	0.2	0.4
8	P9	25.7	-0.3	-0.5	-1.0
8	P10	24.6	0.2	-1.2	-0.2
8	P11	25.6	0.4	-0.4	-0.7
8	P12	25.3	0.3	-0.1	-0.7
8	P13	25.2	-0.3	-0.3	-0.6

8	P14	24.8	0.6	0.6	0.4
8	P15	24.7	0.6	0.2	0.0
8	P16	25.3	0.0	-0.1	-0.2
8	P17	25.4	-0.8	-0.1	-0.2
8	P18	25.2	-0.6	0.0	-0.2
8	P19	24.2	0.3	0.5	0.8
8	P20	24.2	0.3	0.5	0.4
8	P21	24.2	-0.1	0.9	0.0
8	P22	24.7	0.2	1.2	0.1
8	P23	25.1	-0.9	-0.3	0.5
8	P24	25.5	-0.8	-0.7	-0.7
8	P25	24.1	1.1	1.4	1.2

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	100 Cycles	Thermal	Humidity
1	P1	24.3	0.2	0.0	0.1
1	P2	26.2	-0.2	-0.3	-2.4
1	P3	25.7	0.6	1.6	-1.8
1	P4	25.7	0.5	2.0	-1.2
1	P5	28.3	-3.1	-1.4	-1.8
1	P6	24.9	0.1	0.2	-1.0
1	P7	24.6	0.6	0.7	1.0
1	P8	25.3	-0.1	0.6	0.7
1	P9	26.7	-0.7	1.9	-0.6
1	P10	25.9	0.2	1.8	-0.6
1	P11	25.9	1.1	2.1	-1.1
1	P12	25.7	0.9	1.4	-0.4
1	P13	25.7	-0.2	1.5	-0.3
1	P14	25.6	0.7	1.4	0.0
1	P15	25.4	0.8	3.9	-0.3
1	P16	26.8	-1.3	1.0	-1.4
1	P17	25.8	-0.9	0.2	0.6
1	P18	26.3	-0.4	-0.4	-0.2
1	P19	24.7	0.0	0.2	1.4
1	P20	24.5	0.2	0.7	1.5
1	P21	24.8	0.6	1.0	-1.1
1	P22	26.2	0.1	0.3	-1.5
1	P23	25.7	-1.2	0.0	-0.2
1	P24	24.9	-0.2	0.3	10.1
1	P25	24.4	-0.3	0.2	0.2
2	P1	24.4	0.4	1.7	0.9
2	P2	23.9	0.3	0.6	3.0
2	P3	24.2	-0.5	3.2	9.5
2	P4	24.7	-0.6	10.3	15.0
2	P5	25.1	-0.8	7.5	2.4
2	P6	24.6	-0.8	1.4	1.0
2	P7	25.3	0.0	0.6	1.8
2	P8	25.0	-0.2	1.4	0.7
2	P9	25.7	0.2	0.4	0.3

2	P10	26.1	-0.5	-0.2	-0.2
2	P11	25.2	0.0	0.0	1.9
2	P12	26.3	-0.9	-1.1	-0.1
2	P13	25.5	-0.1	-0.2	0.4
2	P14	25.2	0.4	0.3	0.8
2	P15	25.6	0.2	-0.1	1.1
2	P16	26.1	-0.7	-1.0	0.1
2	P17	25.8	0.8	1.1	-0.4
2	P18	26.4	-0.3	1.0	-0.2
2	P19	25.0	-1.0	0.3	3.3
2	P20	24.5	-0.2	0.7	13.3
2	P21	23.8	0.3	3.6	3.6
2	P22	25.1	-1.1	-0.1	9.4
2	P23	25.3	-0.5	1.7	1.6
2	P24	26.1	-1.8	-0.9	0.2
2	P25	25.4	-1.3	-0.5	1.6
3	P1	23.8	1.3	1.8	1.3
3	P2	23.7	0.8	1.9	1.5
3	P3	23.8	0.8	1.5	1.4
3	P4	24.2	0.5	2.7	0.7
3	P5	23.8	0.9	2.3	1.5
3	P6	24.1	0.6	1.0	0.6
3	P7	24.2	1.6	2.5	1.8
3	P8	24.0	0.6	1.4	1.0
3	P9	25.1	0.0	0.1	-0.3
3	P10	24.8	0.5	0.2	0.1
3	P11	25.7	-0.2	-0.5	-0.7
3	P12	24.5	0.9	0.5	0.4
3	P13	25.0	-0.2	0.3	0.2
3	P14	25.1	-0.5	-0.4	-0.5
3	P15	24.8	3.1	2.4	1.3
3	P16	24.6	1.0	0.6	0.6
3	P17	25.2	-0.2	0.4	-0.5
3	P18	25.0	1.8	2.9	1.7
3	P19	24.9	-0.6	0.8	0.8
3	P20	24.0	0.6	1.2	1.4
3	P21	24.2	1.5	1.4	1.8
3	P22	24.5	1.3	2.2	0.8
3	P23	24.2	0.4	2.8	1.6
3	P24	24.1	0.3	1.3	0.4
3	P25	23.7	0.6	1.7	0.7
4	P1	24.1	-0.8	-0.4	-0.7
4	P2	23.9	-0.6	0.5	-0.6
4	P3	25.6	-0.3	0.2	-0.4
4	P4	25.4	-1.2	2.0	-1.3
4	P5	25.0	0.6	2.9	3.0
4	P6	23.9	-0.4	0.0	-0.6
4	P7	24.1	-0.5	-0.1	-0.6
4	P8	24.6	-0.8	-0.5	-1.1

4	P9	25.4	-0.6	0.0	0.1
4	P10	25.1	0.2	0.8	1.1
4	P11	25.1	-0.1	0.2	-0.1
4	P12	25.2	-0.2	0.5	0.4
4	P13	25.3	-0.7	0.7	2.0
4	P14	24.9	-0.1	0.8	0.1
4	P15	25.0	0.3	0.8	0.1
4	P16	26.0	-0.3	0.3	-0.1
4	P17	25.4	-0.3	0.0	1.6
4	P18	25.4	0.2	1.4	0.8
4	P19	24.1	-0.5	-0.1	-0.5
4	P20	24.1	0.2	1.8	1.0
4	P21	25.2	-1.6	-0.6	-1.3
4	P22	24.3	0.1	3.4	0.5
4	P23	24.2	-0.3	0.5	-0.3
4	P24	24.1	-0.4	-0.2	-0.4
4	P25	24.3	-0.4	-0.2	-0.5
5	P1	23.9	-0.3	0.3	0.0
5	P2	24.2	-0.7	-0.3	-1.1
5	P3	24.3	-0.6	-0.3	-0.8
5	P4	25.2	-1.2	-0.2	-1.1
5	P5	23.8	-0.1	-0.4	-0.4
5	P6	23.8	-0.4	0.3	-0.7
5	P7	23.9	0.2	0.6	-0.8
5	P8	23.8	-0.7	0.1	-0.8
5	P9	25.5	-0.7	-0.5	-0.7
5	P10	24.7	0.0	-0.1	-0.1
5	P11	26.2	-1.9	-1.7	-1.8
5	P12	24.9	-0.5	-0.2	-0.5
5	P13	25.5	-1.0	-0.4	-0.2
5	P14	24.7	0.1	0.1	0.0
5	P15	25.1	-0.6	-0.4	-0.4
5	P16	24.8	-0.7	-0.3	-0.3
5	P17	26.8	-2.1	-1.7	-2.1
5	P18	25.2	-0.3	0.3	0.2
5	P19	24.1	-0.4	0.3	-0.1
5	P20	25.3	-1.0	0.4	-0.9
5	P21	24.1	-0.4	0.1	-0.7
5	P22	24.0	-0.2	-0.3	-0.5
5	P23	25.4	-1.9	-0.6	-1.6
5	P24	25.8	-1.6	-0.6	-1.6
5	P25	24.9	-1.2	0.1	-1.0
6	P1	24.6	0.3	3.7	-0.4
6	P2	24.3	0.4	1.0	0.6
6	P3	24.0	0.0	3.1	0.2
6	P4	24.3	0.2	6.3	1.3
6	P5	24.0	0.2	0.7	2.3
6	P6	24.0	0.4	4.7	0.6
6	P7	24.3	0.0	0.2	0.1

6	P8	24.1	0.7	1.1	0.7
6	P9	25.1	-0.1	0.3	0.0
6	P10	24.7	0.1	0.5	0.5
6	P11	25.4	-0.1	0.7	0.2
6	P12	25.2	-0.5	0.2	0.0
6	P13	25.2	-0.4	0.1	0.1
6	P14	25.1	-0.5	-0.3	-0.3
6	P15	25.1	0.7	1.3	1.1
6	P16	25.0	-0.1	0.5	0.1
6	P17	24.9	0.0	0.7	-0.3
6	P18	25.3	-0.6	0.0	0.0
6	P19	24.0	0.4	2.3	19.1
6	P20	23.6	0.3	0.9	0.8
6	P21	24.7	-1.4	-0.6	0.8
6	P22	24.1	0.3	0.7	0.7
6	P23	23.6	0.2	0.9	0.9
6	P24	24.5	-0.7	-0.2	-0.5
6	P25	24.6	-0.6	1.2	-0.8
7	P1	23.7	0.4	0.7	1.6
7	P2	23.8	0.5	1.6	1.2
7	P3	24.1	0.2	0.6	1.6
7	P4	25.0	-0.9	5.6	0.6
7	P5	24.9	0.1	2.3	0.2
7	P6	24.1	0.2	2.8	1.6
7	P7	24.3	0.0	2.2	0.8
7	P8	23.6	0.8	1.9	2.4
7	P9	25.5	-0.3	0.7	1.1
7	P10	25.6	-0.3	-0.1	-0.1
7	P11	25.1	0.0	0.1	0.1
7	P12	25.7	0.2	0.3	0.3
7	P13	25.9	-0.2	0.0	-0.1
7	P14	25.4	-0.2	0.0	-0.1
7	P15	25.4	0.1	0.1	0.4
7	P16	25.7	-0.9	-0.1	-0.2
7	P17	25.8	-0.5	0.5	0.7
7	P18	26.1	-0.7	0.1	-0.2
7	P19	24.1	-0.1	0.5	0.6
7	P20	24.1	0.1	0.3	0.4
7	P21	24.0	0.0	0.7	0.4
7	P22	24.2	0.3	1.2	0.6
7	P23	24.5	0.0	2.4	0.5
7	P24	24.3	-0.2	0.7	0.0
7	P25	25.3	-1.4	-0.3	-1.2
8	P1	24.3	-0.2	0.4	0.2
8	P2	25.0	-0.7	-0.4	-0.8
8	P3	24.9	-0.9	0.1	-0.1
8	P4	24.5	0.1	3.0	1.4
8	P5	24.7	-0.6	1.8	0.0
8	P6	24.8	-0.9	-0.7	-0.6

Tracking Code: TC0814-EPLSP-1642	Part #: ERI8-031-S-D-RA/EPLSP-031 less the cable
Part description: Edge Rate I/O	

8	P7	25.2	-0.9	0.9	0.7
8	P8	25.1	-0.7	10.1	-1.0
8	P9	24.7	-0.2	0.2	-0.2
8	P10	24.6	0.0	-0.2	-0.1
8	P11	25.5	-0.5	-0.9	-0.8
8	P12	24.7	0.0	0.2	-0.4
8	P13	25.2	0.1	-0.4	-0.7
8	P14	25.0	-0.2	-0.3	-0.1
8	P15	25.1	0.2	-0.4	0.3
8	P16	24.8	-0.5	-0.8	-0.6
8	P17	25.2	-0.8	-0.5	0.8
8	P18	24.7	-0.1	0.2	1.1
8	P19	25.2	-0.1	0.6	-0.6
8	P20	25.8	-1.0	0.5	-0.4
8	P21	24.5	-0.2	1.0	0.7
8	P22	24.7	0.0	3.3	-0.1
8	P23	24.8	0.7	4.2	0.3
8	P24	26.0	-1.3	-0.3	-0.2
8	P25	25.8	-0.6	0.8	-0.4

DATA Continued**GAS TIGHT:**

	mOhm values	Actual	Delta
Board	Position	Initial	Gas Tight
1	P1	23.9	-0.3
1	P2	24.7	-0.4
1	P3	24.1	0.5
1	P4	25.2	-0.1
1	P5	24.7	0.3
1	P6	24.2	0.1
1	P7	24.7	-0.6
1	P8	24.6	-0.5
1	P9	25.6	0.2
1	P10	25.6	0.0
1	P11	25.7	0.0
1	P12	25.9	-0.5
1	P13	25.2	0.3
1	P14	25.6	0.2
1	P15	25.5	0.1
1	P16	25.1	0.2
1	P17	25.2	0.4
1	P18	25.8	0.1
1	P19	24.6	0.0
1	P20	24.7	-0.2
1	P21	25.2	-0.4
1	P22	25.1	-0.3
1	P23	25.1	-0.5
1	P24	25.1	-0.3
1	P25	23.6	0.2
2	P1	24.1	0.3
2	P2	23.8	1.0
2	P3	23.5	0.1
2	P4	24.2	1.4
2	P5	25.7	-0.3
2	P6	23.6	-0.2
2	P7	25.2	0.3
2	P8	25.0	0.8
2	P9	25.6	0.2
2	P10	25.4	0.1
2	P11	25.9	-0.4
2	P12	25.3	0.3
2	P13	25.4	-0.2
2	P14	25.9	-0.8
2	P15	26.1	-0.5
2	P16	24.9	0.4

Tracking Code: TC0814-EPLSP-1642	Part #: ERI8-031-S-D-RA/EPLSP-031 less the cable
Part description: Edge Rate I/O	

2	P17	26.2	-0.2
2	P18	25.3	0.1
2	P19	24.1	-0.1
2	P20	23.5	0.4
2	P21	23.6	0.4
2	P22	23.5	0.3
2	P23	23.9	0.0
2	P24	25.1	0.1
2	P25	24.8	-0.6
3	P1	23.9	0.1
3	P2	24.4	-0.2
3	P3	24.0	-0.1
3	P4	26.4	0.0
3	P5	24.3	0.5
3	P6	24.0	-0.3
3	P7	24.5	-0.1
3	P8	24.3	0.0
3	P9	25.8	-0.4
3	P10	26.4	-0.9
3	P11	26.1	-0.4
3	P12	25.7	-0.5
3	P13	25.9	-0.7
3	P14	26.4	-1.2
3	P15	29.0	-0.7
3	P16	25.7	-0.4
3	P17	26.6	-0.3
3	P18	25.8	0.0
3	P19	25.1	0.0
3	P20	24.7	-0.2
3	P21	25.1	1.0
3	P22	25.0	1.9
3	P23	24.6	-0.3
3	P24	25.0	-0.8
3	P25	24.9	-0.9
4	P1	26.0	-0.6
4	P2	24.8	-0.5
4	P3	25.1	-0.3
4	P4	26.8	-0.9
4	P5	26.3	-0.4
4	P6	24.3	0.0
4	P7	24.6	-0.1
4	P8	25.5	-0.6
4	P9	25.4	0.4
4	P10	25.9	0.1
4	P11	26.2	0.1
4	P12	25.3	0.2
4	P13	25.2	0.3
4	P14	25.8	0.2
4	P15	25.5	0.5

Tracking Code: TC0814-EPLSP-1642	Part #: ERI8-031-S-D-RA/EPLSP-031 less the cable
Part description: Edge Rate I/O	

4	P16	25.4	0.2
4	P17	25.7	0.4
4	P18	26.1	-0.1
4	P19	24.5	-0.3
4	P20	25.4	0.3
4	P21	25.1	0.2
4	P22	25.5	-0.4
4	P23	25.2	0.0
4	P24	26.2	-1.5
4	P25	24.8	-0.1
5	P1	26.0	-0.4
5	P2	26.5	-0.5
5	P3	24.9	0.2
5	P4	26.0	0.7
5	P5	26.4	-0.2
5	P6	25.3	0.1
5	P7	26.3	0.9
5	P8	26.2	0.5
5	P9	29.0	0.9
5	P10	29.3	-0.2
5	P11	29.3	0.7
5	P12	35.0	1.3
5	P13	40.7	4.9
5	P14	32.9	0.0
5	P15	43.7	-7.3
5	P16	30.3	4.7
5	P17	44.6	-8.3
5	P18	39.7	-8.9
5	P19	28.0	2.8
5	P20	28.6	5.5
5	P21	30.9	5.0
5	P22	26.9	2.1
5	P23	27.6	-1.4
5	P24	25.7	1.3
5	P25	36.5	-4.0
6	P1	24.5	-0.2
6	P2	24.4	-0.1
6	P3	25.2	-0.4
6	P4	25.1	-0.4
6	P5	24.5	0.0
6	P6	24.9	-0.3
6	P7	25.7	-0.6
6	P8	25.9	-0.2
6	P9	25.7	-0.1
6	P10	25.1	0.0
6	P11	25.2	-0.1
6	P12	25.7	-0.4
6	P13	25.1	0.4
6	P14	24.9	0.2

6	P15	25.0	0.2
6	P16	25.3	0.1
6	P17	25.4	0.1
6	P18	25.1	0.2
6	P19	24.3	-0.6
6	P20	23.8	-0.2
6	P21	24.5	0.0
6	P22	24.6	-0.2
6	P23	24.7	-0.8
6	P24	25.8	-1.2
6	P25	23.9	-0.3
7	P1	24.8	0.2
7	P2	24.3	0.5
7	P3	24.1	0.5
7	P4	24.4	0.3
7	P5	25.2	0.2
7	P6	24.0	0.2
7	P7	24.4	0.2
7	P8	24.7	-0.3
7	P9	25.3	0.1
7	P10	24.8	0.0
7	P11	25.5	0.0
7	P12	24.8	-0.1
7	P13	25.0	0.2
7	P14	25.3	-0.2
7	P15	25.2	0.2
7	P16	25.0	-0.1
7	P17	26.0	-0.4
7	P18	26.2	-0.2
7	P19	24.6	0.0
7	P20	24.6	-0.3
7	P21	25.5	-0.6
7	P22	25.0	-0.4
7	P23	25.1	-0.7
7	P24	25.6	-0.4
7	P25	24.9	-0.3
8	P1	24.3	0.2
8	P2	23.7	0.1
8	P3	23.9	0.1
8	P4	24.6	0.3
8	P5	24.2	0.1
8	P6	23.9	0.1
8	P7	23.9	0.0
8	P8	24.3	0.0
8	P9	25.5	0.4
8	P10	25.7	0.1
8	P11	25.4	0.1
8	P12	25.5	0.3
8	P13	25.6	0.2

Tracking Code: TC0814-EPLSP-1642	Part #: ERI8-031-S-D-RA/EPLSP-031 less the cable
Part description: Edge Rate I/O	

8	P14	25.2	0.1
8	P15	25.2	0.2
8	P16	25.6	0.2
8	P17	25.6	0.1
8	P18	25.8	0.2
8	P19	24.8	0.3
8	P20	24.4	0.3
8	P21	24.1	1.2
8	P22	24.6	0.2
8	P23	24.0	0.2
8	P24	25.5	-0.1
8	P25	24.1	0.3

EQUIPMENT AND CALIBRATION SCHEDULES**Equipment #:** LC-500N-2**Description:** 500 N icell load cell for Dillon Test Stand**Manufacturer:** Mecmesin (Dillon/Quantrol)**Model:** ILC**Serial #:** 07-0192-12**Accuracy:** .10% of Capacity

... Last Cal: 02/15/2008, Next Cal: 02/15/2009

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: 05/18/2007, Next Cal: 05/18/2008

Equipment #: TCT-03**Description:** Dillon Quantrol TC2 Test Stand**Manufacturer:** Dillon Quantrol**Model:** TC2**Serial #:** 02-1033-03**Accuracy:** Speed Accuracy: +/- 5% of indicated speed; Displacement: +/- 5 micrometers.

... Last Cal: 5/18/07, Next Cal: 5/18/08

Equipment #: MV-3**Description:** 6"x6" Video Measuring Machine**Manufacturer:** Micro-Vu**Model:** M301**Serial #:** V6815**Accuracy:** See Manual - MOVED TO PRODUCTION

... Last Cal: 03/15/05, Next Cal: 04/01/2009

Equipment #: MO-01**Description:** Micro-Ohmmeter**Manufacturer:** Keithley**Model:** 580**Serial #:** 0772740**Accuracy:** See Manual

... Last Cal: 06/22/07, Next Cal: 06/22/08

Equipment #: MO-06**Description:** Micro-Ohmmeter**Manufacturer:** Keithley**Model:** 580**Serial #:** 1110525**Accuracy:** See Manual

... Last Cal: 06/22/2007, Next Cal: 06/22/2008

Equipment #: MO-07**Description:** Multimeter / Data Acquisition System**Manufacturer:** Keithley**Model:** 2700**Serial #:** 1116559**Accuracy:** See Manual See Manual

... Last Cal: 6/22/2007, Next Cal: 6/22/2008

Equipment #: MO-03**Description:** Multimeter /Data Acquisition System**Manufacturer:** Keithley**Model:** 2700**Serial #:** 0791975**Accuracy:** See Manual

... Last Cal: 06/22/07, Next Cal: 06/22/08

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 Megomter Safety Test Cage**Manufacturer:** Hipotronics**Model:** TC-25**Serial #:** M9910141**Accuracy:** N/A

... Last Cal: No Calibration Required, Next Cal:

Equipment #: PS-07**Description:** 20 V, 120 A DC Power Supply - AutoRanging SO/HPIB**Manufacturer:** Hewlett Packard / Agilent**Model:** AT-6031A**Serial #:** 07-0192-12**Accuracy:** See Manual Current Carrying Capacity (CCC) Chamber

... Last Cal: 10/25/2007, Next Cal: 10/25/2008

Equipment #: MO-04**Description:** Multimeter /Data Acquisition System**Manufacturer:** Keithley**Model:** 2700**Serial #:** 0798688**Accuracy:** See Manual - DO NOT USE UNTIL CALIBRATED.

... Last Cal: 03/10/08, Next Cal: 03/10/09

Tracking Code: TC0814-EPLSP-1642	Part #: ERI8-031-S-D-RA/EPLSP-031 less the cable
Part description: Edge Rate I/O	

Equipment #: THC-01

Description: Temperature/Humidity Chamber

Manufacturer: Thermotron

Model: SM-8-7800

Serial #: 30676

Accuracy: See Manual

... Last Cal: 9/21/2007, Next Cal: 9/21/2008

Equipment #: TC111307-(001 - 017)

Description: CCC Chamber Thermocouples

Manufacturer: Samtec

Model:

Serial #: TC111307-(001 - 017)

Accuracy: +/- 1 Deg.

... Last Cal: 11/30/2007, Next Cal: 11/30/2008

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: 06/62/07, Next Cal: 06/62/07

Equipment #: Null

Description:

Manufacturer:

Model:

Serial #:

Accuracy:

... Last Cal: , Next Cal: