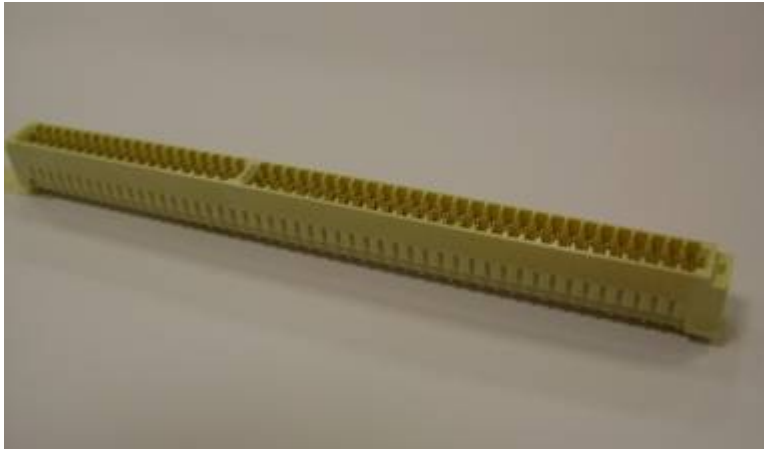




Project Number: Design Qualification Test Report		Tracking Code: TC1032--3493_Report_Rev_2	
Requested by: Leo Lee		Date: 12/01/2010	Product Rev: 0
Part #: MEC2-50-02-L-DV-WT\Mating Card		Lot #:1	Tech: Kason He Eng: Vico Zhao
Part description: MEC2			Qty to test: 60
Test Start: 08/10/2010	Test Completed: 09/04/2010		



Design Qualification Test Report

MEC2

MEC2-50-02-L-DV-WT\Mating Card

CERTIFICATION

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

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SCOPE

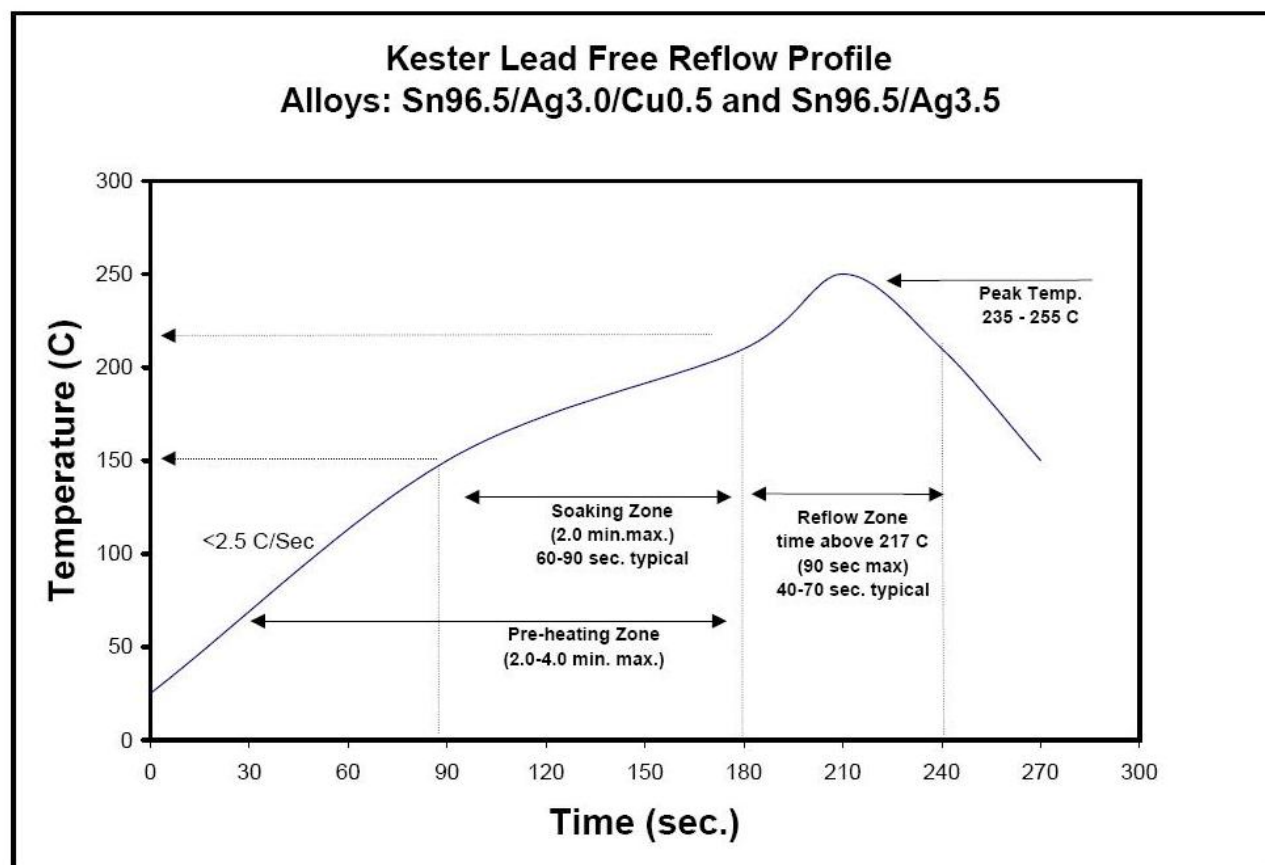
To perform the following tests: Design Qualification Test, Please see test plan

APPLICABLE DOCUMENTS

Standards: EIA Publication 364

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-102528-TST

TYPICAL OVEN PROFILE (Soldering Parts to Test Boards)

FLOWCHARTS**Gas Tight**

TEST STEP	GROUP A1 192 Points 2.12mm thick edge card (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

IR / DWV

TEST STEP	GROUP A1 2 Mated Sets Break Down - Pin to Pin	GROUP A2 2 Unmated of Part # Being Tested Break Down - Pin to Pin	GROUP A3 2 Unmated of Mating Part# Break Down - Pin to Pin	GROUP B 2 Mated Sets Pin to Pin
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, Test Condition 1

FLOWCHARTS Continued**Mating/Unmating/Gaps/Normal Force/Deflection Force**

TEST STEP	GROUP A1 10 Boards (largest position submitted) 2.12mm thick edge card (Min)	GROUP A2 6 Boards (smallest position submitted) 2.36mm thick edge card (Max)	GROUP A3 6 Boards (middle position submitted) 2.36mm thick edge card (Max)
01	Contact Gaps	Contact Gaps	Contact Gaps
02	Mating / Unmating	Mating / Unmating	Mating / Unmating
03	25 Cycles	25 Cycles	25 Cycles
04	Clean w/Compressed Air	Clean w/Compressed Air	Clean w/Compressed Air
05	Mating / Unmating	Mating / Unmating	Mating / Unmating
06	25 Cycles (50 Total)	25 Cycles (50 Total)	25 Cycles (50 Total)
07	Clean w/Compressed Air	Clean w/Compressed Air	Clean w/Compressed Air
08	Mating / Unmating	Mating / Unmating	Mating / Unmating
09	25 Cycles (75 Total)	25 Cycles (75 Total)	25 Cycles (75 Total)
10	Clean w/Compressed Air	Clean w/Compressed Air	Clean w/Compressed Air
11	Mating / Unmating	Mating / Unmating	Mating / Unmating
12	25 Cycles (100 Total)	25 Cycles (100 Total)	25 Cycles (100 Total)
13	Clean w/Compressed Air	Clean w/Compressed Air	Clean w/Compressed Air
14	Mating / Unmating	Mating / Unmating	Mating / Unmating
15	Contact Gaps	Contact Gaps	Contact Gaps
16	Thermal Aging (Mated)		
17	Mating / Unmating		
18	Contact Gaps		
19	Cyclic Humidity (Mated)		

TEST STEP	GROUP B1 Individual Contacts (8-10 min)	GROUP B2 Individual Contacts (8-10 min)
01	Setup Approved	Setup Approved
02	Normal Force (in the body and soldered on PCB unless otherwise specified)	Thermal Aging (Mated)
03		Normal Force (in the body and soldered on PCB unless otherwise specified)

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

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

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

TEST STEP	GROUP A1 192 Points 100 Cycles 2.12mm thick edge card (Min)	GROUP A2 192 Points 100 Cycles 2.60mm thick edge card (Max)
01	LLCR-1	LLCR-1
02	100 Cycles	100 Cycles
03	Clean Mating Interface	Clean Mating Interface
04	LLCR-2	LLCR-2
05	Thermal Age (Mated and undisturbed)	Thermal Age (Mated and undisturbed)
06	LLCR-3	LLCR-3
07	Cyclic Humidity (Mated and undisturbed)	Cyclic Humidity (Mated and undisturbed)
08	LLCR-4	LLCR-4

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

LLCR = EIA-364-23, LLCR

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

Current Carrying Capacity**DOUBLE ROW****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

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.

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 TC², 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 TC² software in order to acquire and record the test data.
- 10) The permanent set of each contact shall be measured within the TC² 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.

ATTRIBUTE DEFINITIONS

The following is a brief, simplified description of attributes.

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.

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.

ATTRIBUTE DEFINITIONS

The following is a brief, simplified description of attributes

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. $\leq +5.0$ 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

ATTRIBUTE DEFINITIONS

The following is a brief, simplified description of attributes.

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-----3.5A per contact with 2 adjacent contacts powered
- CCC for a 30°C Temperature Rise-----3.0A per contact with 4 adjacent contacts powered
- CCC for a 30°C Temperature Rise-----2.9A per contact with 6 adjacent contacts powered
- CCC for a 30°C Temperature Rise-----2.6A per contact with 8 adjacent contacts powered
- CCC for a 30°C Temperature Rise-----1.9A per contact with all adjacent contacts powered

Contact Gaps

MEC2-50 pos 2.12 mm thick edge card (Min)

- Initial
 - o Min-----1.2315 mm
 - o Max -----1.5328 mm
- After 100 Cycles
 - o Min-----1.4678 mm
 - o Max -----1.8062 mm
- After Thermal
 - o Min-----1.6310 mm
 - o Max -----1.8062 mm

MEC2-20 pos 2.36mm thick edge card (Mid)

- Initial
 - o Min-----1.2000 mm
 - o Max -----1.2888 mm
- After 100 Cycles
 - o Min-----1.4909 mm
 - o Max -----1.6050 mm

MEC2-08 pos 2.36mm thick edge card (Mid)

- Initial
 - o Min-----1.2344 mm
 - o Max -----1.2933 mm
- After 100 Cycles
 - o Min-----1.5394 mm
 - o Max -----1.6174 mm

RESULTS Continued**Mating – Unmating Forces****MEC2-50 pos 2.12 mm thick edge card (Min)**

- **Initial**
 - **Mating**
 - **Min**-----14.13 Lbs
 - **Max**-----15.46 Lbs
 - **Unmating**
 - **Min**-----5.84 Lbs
 - **Max**-----6.84 Lbs
- **After 25 Cycles**
 - **Mating**
 - **Min**-----12.11 Lbs
 - **Max**-----14.53 Lbs
 - **Unmating**
 - **Min**-----5.07 Lbs
 - **Max**-----5.95 Lbs
- **After 50 Cycles**
 - **Mating**
 - **Min**-----10.34 Lbs
 - **Max**-----14.96 Lbs
 - **Unmating**
 - **Min**-----4.74 Lbs
 - **Max**-----5.80 Lbs
- **After 75 Cycles**
 - **Mating**
 - **Min**-----9.64 Lbs
 - **Max**-----11.28 Lbs
 - **Unmating**
 - **Min**-----4.31 Lbs
 - **Max**-----5.65 Lbs
- **After 100 Cycles**
 - **Mating**
 - **Min**-----9.97 Lbs
 - **Max**-----11.67 Lbs
 - **Unmating**
 - **Min**-----4.22 Lbs
 - **Max**-----5.68 Lbs
- **Thermal**
 - **Mating**
 - **Min**-----6.95 Lbs
 - **Max**-----8.95 Lbs
 - **Unmating**
 - **Min**-----3.81 Lbs
 - **Max**-----4.92 Lbs
- **Humidity**
 - **Mating**
 - **Min**-----7.39 Lbs
 - **Max**-----8.73 Lbs
 - **Unmating**
 - **Min**-----4.37 Lbs
 - **Max**-----5.91 Lbs

RESULTS Continued**Mating – Unmating Forces****MEC2-20 pos 2.36mm thick edge card (Mid)**

- **Initial**
 - **Mating**
 - **Min**-----5.40 Lbs
 - **Max**-----5.91 Lbs
 - **Unmating**
 - **Min**-----1.96 Lbs
 - **Max**-----2.23 Lbs
- **After 25 Cycles**
 - **Mating**
 - **Min**-----5.12 Lbs
 - **Max**-----5.51 Lbs
 - **Unmating**
 - **Min**-----1.87 Lbs
 - **Max**-----1.98 Lbs
- **After 50 Cycles**
 - **Mating**
 - **Min**-----4.26 Lbs
 - **Max**-----5.49 Lbs
 - **Unmating**
 - **Min**-----1.74 Lbs
 - **Max**-----1.92 Lbs
- **After 75 Cycles**
 - **Mating**
 - **Min**-----4.30 Lbs
 - **Max**-----4.85 Lbs
 - **Unmating**
 - **Min**-----1.74 Lbs
 - **Max**-----1.87 Lbs
- **After 100 Cycles**
 - **Mating**
 - **Min**-----3.99 Lbs
 - **Max**-----4.52 Lbs
 - **Unmating**
 - **Min**-----1.72 Lbs
 - **Max**-----1.85 Lbs

RESULTS Continued**Mating – Unmating Forces****MEC2-08 pos 2.36mm thick edge card (Mid)**

- **Initial**
 - **Mating**
 - **Min**-----1.59 Lbs
 - **Max**-----2.05 Lbs
 - **Unmating**
 - **Min**-----0.66 Lbs
 - **Max**-----0.79 Lbs
- **After 25 Cycles**
 - **Mating**
 - **Min**-----1.59 Lbs
 - **Max**-----2.14 Lbs
 - **Unmating**
 - **Min**-----0.68 Lbs
 - **Max**-----0.79 Lbs
- **After 50 Cycles**
 - **Mating**
 - **Min**-----1.57 Lbs
 - **Max**-----1.76 Lbs
 - **Unmating**
 - **Min**-----0.64 Lbs
 - **Max**-----0.84 Lbs
- **After 75 Cycles**
 - **Mating**
 - **Min**-----1.39 Lbs
 - **Max**-----1.85 Lbs
 - **Unmating**
 - **Min**-----0.64 Lbs
 - **Max**-----0.75 Lbs
- **After 100 Cycles**
 - **Mating**
 - **Min**-----1.39 Lbs
 - **Max**-----1.74 Lbs
 - **Unmating**
 - **Min**-----0.66 Lbs
 - **Max**-----0.77 Lbs

RESULTS Continued**Normal Force at 0.68 mm deflection**

- **Initial**
 - **Min**-----88.60 gf **Set** ---- 0.1800 mm
 - **Max** -----93.80 gf **Set** ---- 0.2000 mm
- **Thermal**
 - **Min**-----92.90 gf **Set** ---- 0.1700 mm
 - **Max** -----95.50 gf **Set** ---- 0.1800 mm

Insulation Resistance minimums, IR

- **Initial**
 - **Mated**-----10000Meg Ω ----- Pass
 - **Unmated** -----10000Meg Ω ----- Pass
- **Thermal**
 - **Mated**-----10000Meg Ω ----- Pass
 - **Unmated** -----10000Meg Ω ----- Pass
- **Humidity**
 - **Mated**-----10000Meg Ω ----- Pass
 - **Unmated** -----10000Meg Ω ----- Pass

Dielectric Withstanding Voltage minimums, DWV

Breakdown -----950VAC
DWV -----713VAC
Working voltage -----238VAC

Initial -----Passed
Thermal -----Passed
Humidity -----Passed

RESULTS Continued**LLCR Durability (192 LLCR test points)****MEC2-50 pos 2.12 mm thick edge card (Min)**

- Initial -----5.8mOhms Max
- Durability, 100 Cycles
 - o <= +5.0 mOhms ----- 192 Points ----- Stable
 - o +5.1 to +10.0 mOhms ----- 0 Points ----- Minor
 - o +10.1 to +15.0 mOhms ----- 0 Points ----- Acceptable
 - o +15.1 to +50.0 mOhms ----- 0 Points ----- Marginal
 - o +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
 - o >+2000 mOhms ----- 0 Points ----- Open Failure
- Thermal
 - o <= +5.0 mOhms ----- 192 Points ----- Stable
 - o +5.1 to +10.0 mOhms ----- 0 Points ----- Minor
 - o +10.1 to +15.0 mOhms ----- 0 Points ----- Acceptable
 - o +15.1 to +50.0 mOhms ----- 0 Points ----- Marginal
 - o +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
 - o >+2000 mOhms ----- 0 Points ----- Open Failure
 - o
- Humidity
 - o <= +5.0 mOhms ----- 192 Points ----- Stable
 - o +5.1 to +10.0 mOhms ----- 0 Points ----- Minor
 - o +10.1 to +15.0 mOhms ----- 0 Points ----- Acceptable
 - o +15.1 to +50.0 mOhms ----- 0 Points ----- Marginal
 - o +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
 - o >+2000 mOhms ----- 0 Points ----- Open Failure

LLCR Durability (192 LLCR test points)**MEC2-50 pos 2.60 mm thick edge card (Max)**

- Initial -----5.8mOhms Max
- Durability, 100 Cycles
 - o <= +5.0 mOhms ----- 192 Points ----- Stable
 - o +5.1 to +10.0 mOhms ----- 0 Points ----- Minor
 - o +10.1 to +15.0 mOhms ----- 0 Points ----- Acceptable
 - o +15.1 to +50.0 mOhms ----- 0 Points ----- Marginal
 - o +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
 - o >+2000 mOhms ----- 0 Points ----- Open Failure
- Thermal
 - o <= +5.0 mOhms ----- 192 Points ----- Stable
 - o +5.1 to +10.0 mOhms ----- 0 Points ----- Minor
 - o +10.1 to +15.0 mOhms ----- 0 Points ----- Acceptable
 - o +15.1 to +50.0 mOhms ----- 0 Points ----- Marginal
 - o +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
 - o >+2000 mOhms ----- 0 Points ----- Open Failure
 - o
- Humidity
 - o <= +5.0 mOhms ----- 192 Points ----- Stable
 - o +5.1 to +10.0 mOhms ----- 0 Points ----- Minor
 - o +10.1 to +15.0 mOhms ----- 0 Points ----- Acceptable
 - o +15.1 to +50.0 mOhms ----- 0 Points ----- Marginal
 - o +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
 - o >+2000 mOhms ----- 0 Points ----- Open Failure

RESULTS Continued

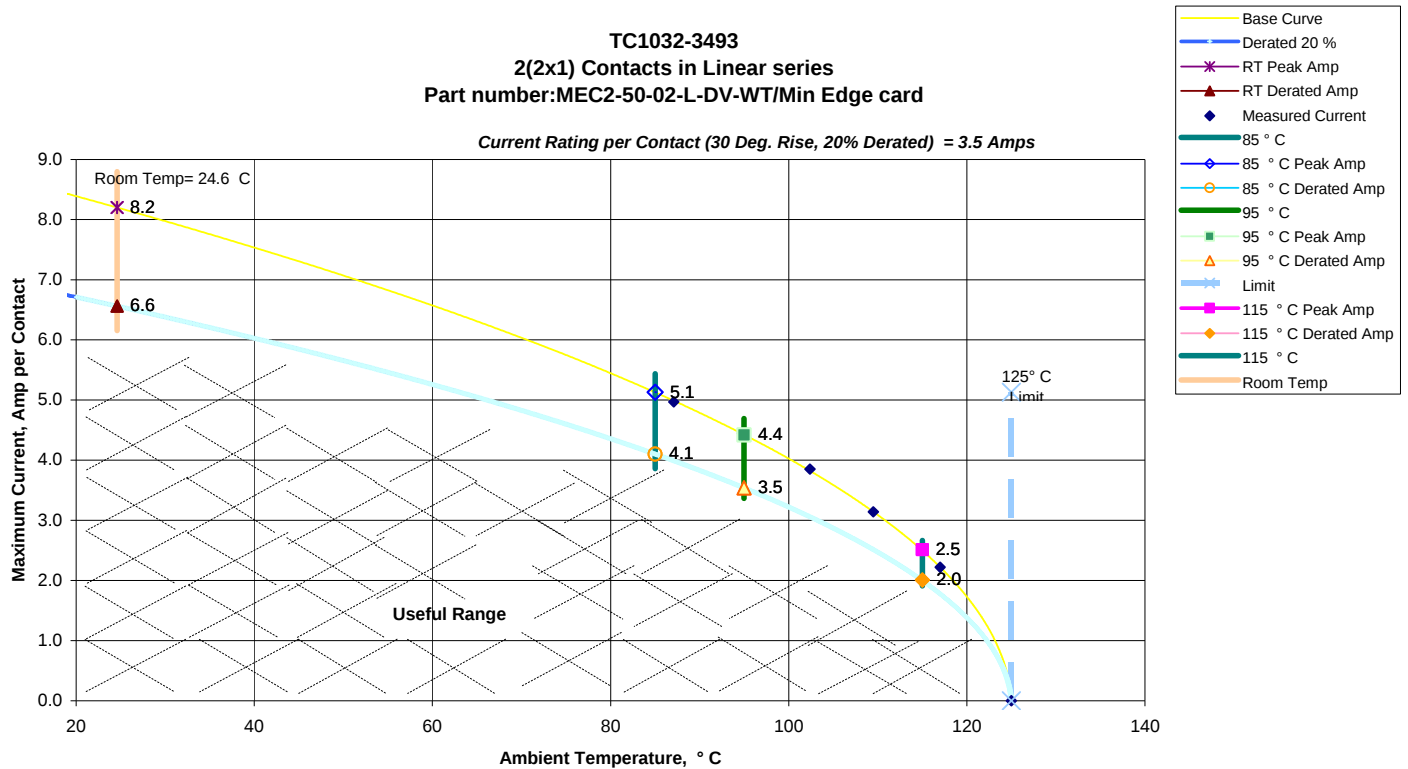
LLCR Gas Tight (192 LLCR test points)

- **Initial** -----4.2mOhms Max
- **Gas-Tight**
 - o **<= +5.0 mOhms** -----192 Points -----Stable
 - o **+5.1 to +10.0 mOhms** -----0 Points -----Minor
 - o **+10.1 to +15.0 mOhms** -----0 Points -----Acceptable
 - o **+15.1 to +50.0 mOhms** -----0 Points -----Marginal
 - o **+50.1 to +2000 mOhms** -----0 Points -----Unstable
 - o **>+2000 mOhms** -----0 Points -----Open Failure

DATA SUMMARIES**TEMPERATURE RISE (Current Carrying Capacity, CCC):**

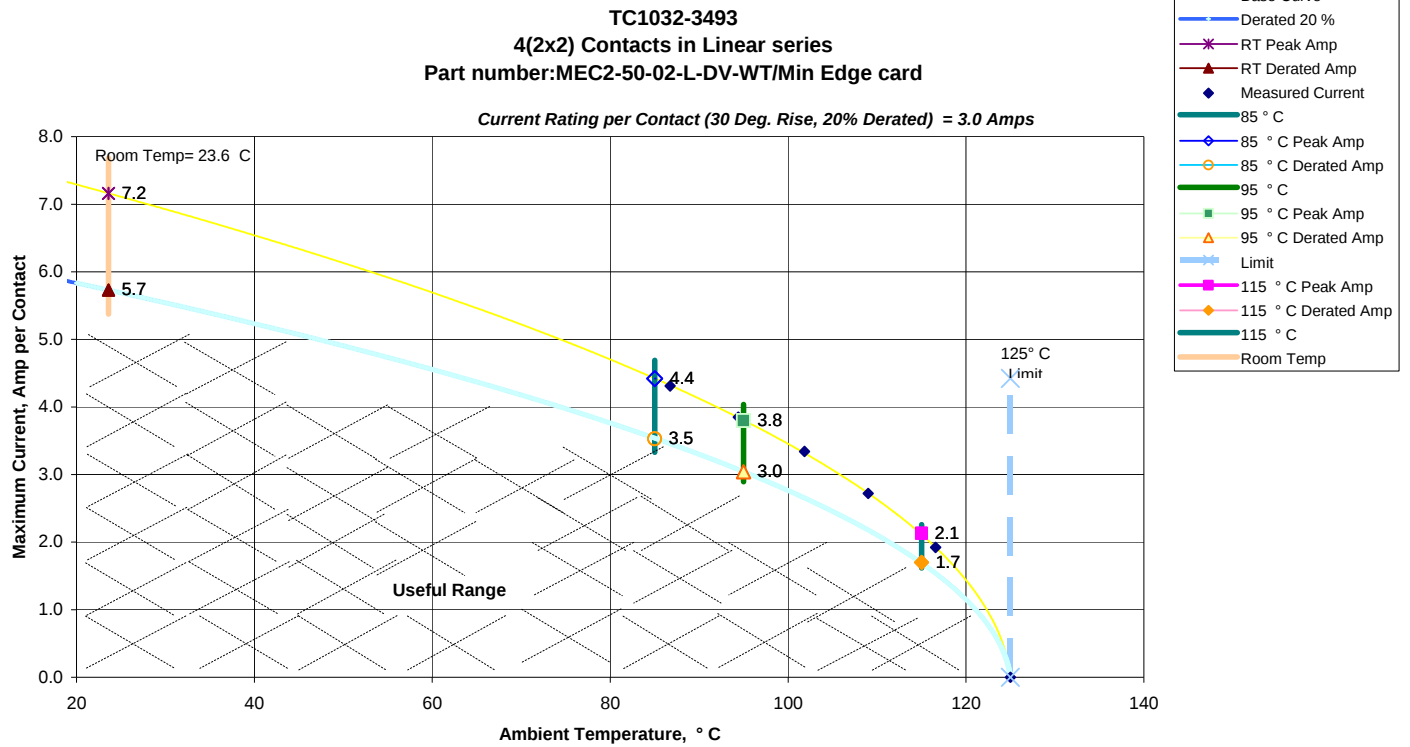
- 1) High quality thermocouples whose temperature slopes track one another were used for temperature monitoring.
- 2) The thermocouples were placed at a location to sense the maximum temperature generated during testing.
- 3) Temperature readings recorded are those for which three successive readings,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

a. Linear configuration with 2 adjacent conductors /contacts powered



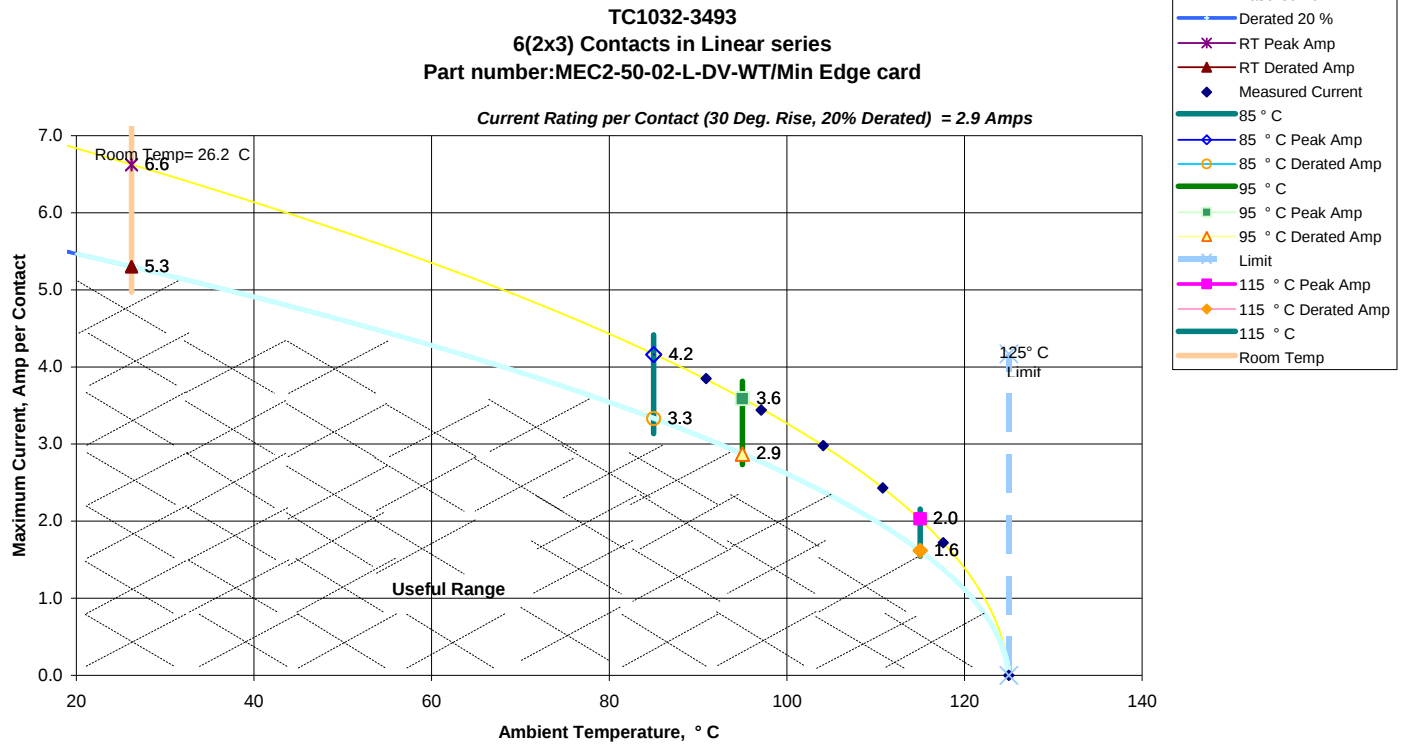
DATA SUMMARIES Continued

b. Linear configuration with 4 adjacent conductors /contacts powered



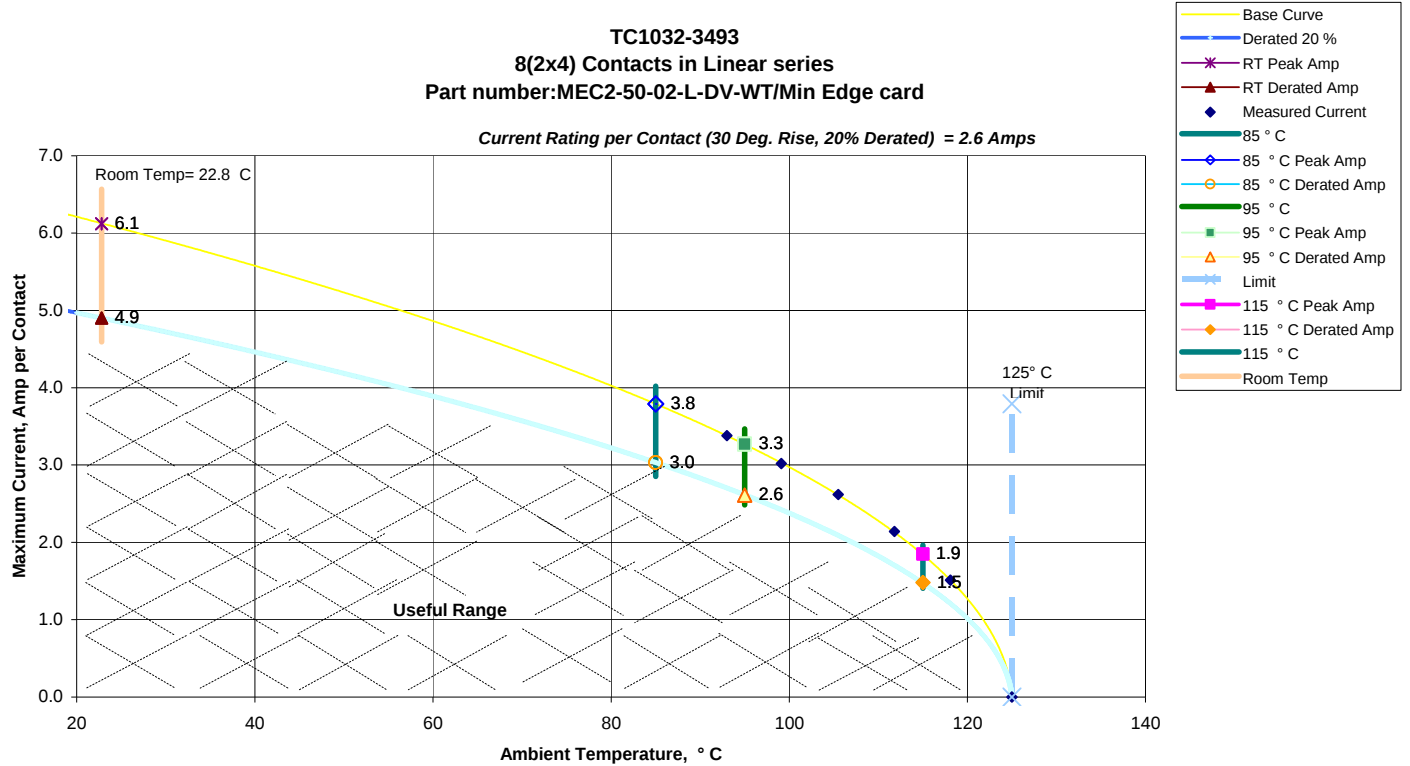
DATA SUMMARIES Continued

c. Linear configuration with 6 adjacent conductors/contacts powered



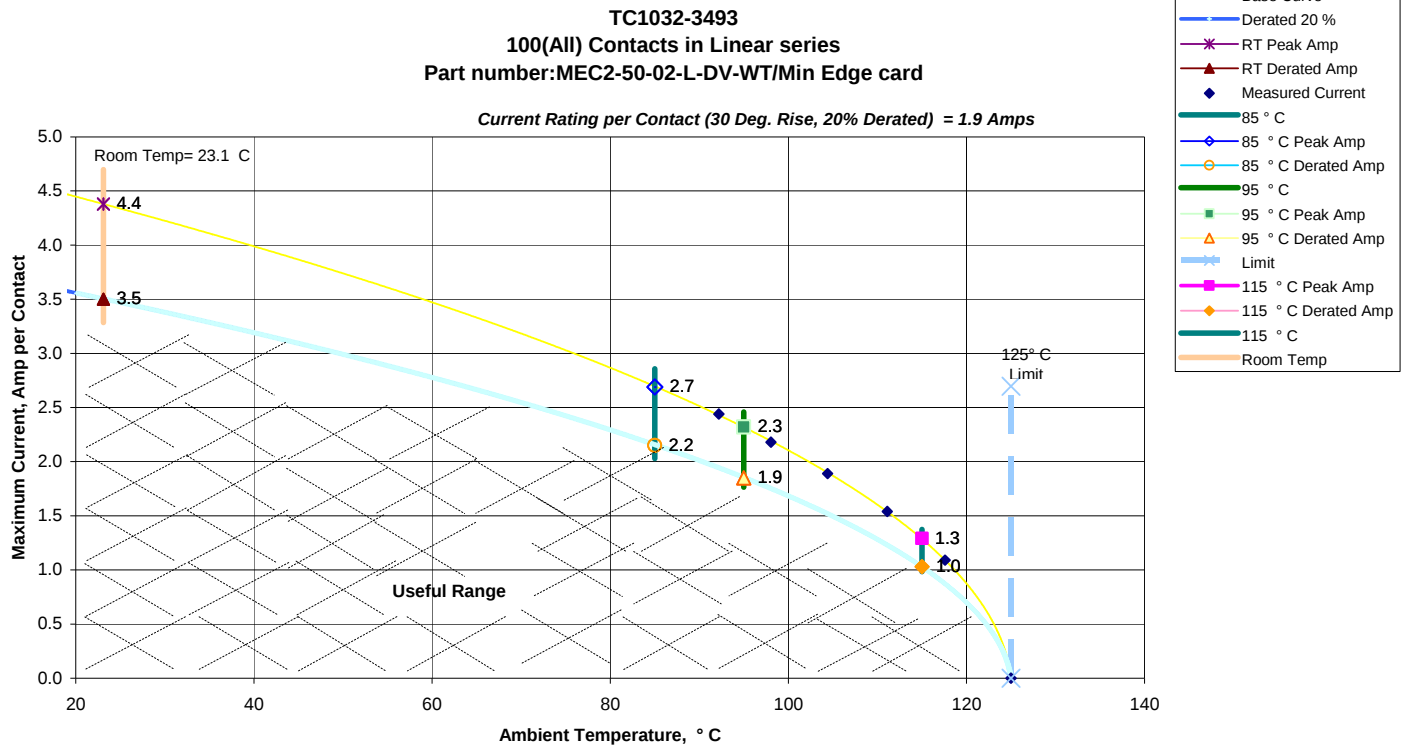
DATA SUMMARIES Continued

d. Linear configuration with 8 adjacent conductors/contacts powered



DATA SUMMARIES Continued

e. Linear configuration with all adjacent conductors/contacts powered



DATA SUMMARIES Continued**CONTACT GAPS:**

MEC2-50 pos 2.12 mm thick edge card (Min)

Initial		After 100 Cycles		After Thermal	
Units: mm		Units: mm		Units: mm	
<i>Minimum</i>	1.2315	<i>Minimum</i>	1.4678	<i>Minimum</i>	1.6310
<i>Maximum</i>	1.5328	<i>Maximum</i>	1.8067	<i>Maximum</i>	1.8062
<i>Average</i>	1.3393	<i>Average</i>	1.5845	<i>Average</i>	1.6937
<i>St. Dev.</i>	0.0282	<i>St. Dev.</i>	0.0647	<i>St. Dev.</i>	0.0332
<i>Count</i>	490	<i>Count</i>	490	<i>Count</i>	490

MEC2-20 pos 2.36 mm thick edge card (Mid)

Initial		After 100 Cycles	
Units: mm		Units: mm	
<i>Minimum</i>	1.2000	<i>Minimum</i>	1.4909
<i>Maximum</i>	1.2888	<i>Maximum</i>	1.6050
<i>Average</i>	1.2433	<i>Average</i>	1.5400
<i>St. Dev.</i>	0.0223	<i>St. Dev.</i>	0.0286
<i>Count</i>	114	<i>Count</i>	114

MEC2-08 pos 2.36 mm thick edge card (Mid)

Initial		After 100 Cycles	
Units: mm		Units: mm	
<i>Minimum</i>	1.2344	<i>Minimum</i>	1.5394
<i>Maximum</i>	1.2933	<i>Maximum</i>	1.6174
<i>Average</i>	1.2556	<i>Average</i>	1.5727
<i>St. Dev.</i>	0.0145	<i>St. Dev.</i>	0.0195
<i>Count</i>	42	<i>Count</i>	42

DATA SUMMARIES Continued**MATING/UNMATING**

MEC2-50 pos 2.12 mm thick edge card (Min)

	Initial				After 25 Cycles			
	Mating		Unmating		Mating		Unmating	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	62.9	14.13	26.0	5.84	53.9	12.11	22.6	5.07
Maximum	68.78	15.46	30.42	6.84	64.66	14.53	26.49	5.95
Average	65.17	14.65	27.66	6.22	58.80	13.21	24.55	5.52
	After 50 Cycles				After 75 Cycles			
	Mating		Unmating		Mating		Unmating	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	46.0	10.34	21.1	4.74	42.9	9.64	19.2	4.31
Maximum	62.11	13.96	25.81	5.80	50.20	11.28	25.14	5.65
Average	52.58	11.82	23.46	5.27	46.68	10.49	21.94	4.93
	After 100 Cycles				After Thermals			
	Mating		Unmating		Mating		Unmating	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	44.4	9.97	18.8	4.22	30.9	6.95	17.0	3.81
Maximum	51.93	11.67	25.28	5.68	39.84	8.95	21.88	4.92
Average	48.07	10.80	22.06	4.96	36.88	8.29	19.90	4.47
	After Humidity							
	Mating		Unmating					
	newtons	Force (Lbs)	newtons	Force (Lbs)				
Minimum	32.9	7.39	19.4	4.37				
Maximum	38.86	8.73	26.30	5.91				
Average	35.82	8.05	23.81	5.35				

DATA SUMMARIES Continued**MATING/UNMATING**

MEC2-20 pos 2.36 mm thick edge card (Mid)

	Initial				After 25 Cycles			
	Mating		Unmating		Mating		Unmating	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	24.0	5.40	8.7	1.96	22.8	5.12	8.3	1.87
Maximum	26.30	5.91	9.91	2.23	24.53	5.51	8.83	1.98
Average	25.58	5.75	9.11	2.05	23.50	5.28	8.57	1.93
	After 50 Cycles				After 75 Cycles			
	Mating		Unmating		Mating		Unmating	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	18.9	4.26	7.8	1.74	19.1	4.30	7.8	1.74
Maximum	24.43	5.49	8.54	1.92	21.59	4.85	8.34	1.87
Average	21.51	4.83	8.08	1.82	20.05	4.51	8.08	1.82
	After 100 Cycles							
	Mating		Unmating					
	newtons	Force (Lbs)	newtons	Force (Lbs)				
Minimum	17.8	3.99	7.7	1.72				
Maximum	20.12	4.52	8.24	1.85				
Average	18.74	4.21	7.96	1.79				

DATA SUMMARIES Continued**MATING/UNMATING**

MEC2-08 pos 2.36 mm thick edge card (Mid)

	Initial				After 25 Cycles			
	Mating		Unmating		Mating		Unmating	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	7.1	1.59	2.9	0.66	7.1	1.59	3.0	0.68
Maximum	9.13	2.05	3.53	0.79	9.52	2.14	3.53	0.79
Average	8.1	1.8	3.2	0.7	8.1	1.8	3.3	0.7
	After 50 Cycles				After 75 Cycles			
	Mating		Unmating		Mating		Unmating	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	7.0	1.57	2.8	0.64	6.2	1.39	2.8	0.64
Maximum	7.85	1.76	3.73	0.84	8.24	1.85	3.34	0.75
Average	7.4	1.7	3.2	0.7	7.1	1.6	3.1	0.7
	After 100 Cycles							
	Mating		Unmating					
	newtons	Force (Lbs)	newtons	Force (Lbs)				
Minimum	6.2	1.39	2.9	0.66				
Maximum	7.75	1.74	3.43	0.77				
Average	7.0	1.6	3.2	0.7				

DATA SUMMARIES Continued**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.

Initial	Deflections in mm Forces in Grams			
	<u>0.340</u>	<u>0.510</u>	<u>0.680</u>	<u>SET</u>
Averages	59.45	78.45	91.49	0.19
Min	57.70	76.40	88.60	0.18
Max	62.00	81.70	93.80	0.20
St. Dev	1.19	1.38	1.26	0.01
Count	13	13	13	13

Thermal	Deflections in mm, Forces in Grams			
	<u>0.340</u>	<u>0.510</u>	<u>0.680</u>	<u>SET</u>
Averages	60.79	80.99	94.09	0.18
Min	58.40	79.70	92.90	0.17
Max	62.30	82.00	95.50	0.18
St. Dev	1.07	0.75	0.83	0.00
Count	13	13	13	13

INSULATION RESISTANCE (IR):

	Pin to Pin		
	Mated	Unmated	Unmated
Minimum	MEC2/Card	MEC2	Card
Initial	10000	10000	
Thermal	10000	10000	
Humidity	10000	10000	

DIELECTRIC WITHSTANDING VOLTAGE (DWV):

Voltage Rating Summary	
Minimum	MEC2/Card
Break Down Voltage	950
Test Voltage	713
Working Voltage	238

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

DATA SUMMARIES Continued**LLCR:**

- 1) A total of 192 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

MEC2-50 pos 2.12 mm thick edge card (Min)

Date	Aug. 03 2010	Aug. 03 2010	Aug. 17 2010	Aug. 27 2010
Room Temp C	23	23	23	23
RH	52%	52%	50%	50%
Name	Peter Chen	Peter	Peter Chen	Peter Chen
mOhm values	Actual Initial	Delta 100 Cycles	Delta Thermal	Delta Humidity
Average	3.3	0.0	0.2	1.3
St. Dev.	0.3	0.5	0.6	1.2
Min	2.5	-2.9	-3.2	-2.3
Max	5.8	2.3	2.7	4.8
Count	192	192	192	192

How many samples are being tested?

8

How many contacts are on each board?

24

	Stable	Minor	Acceptable	Marginal	Unstable	Open
100 Cycles	192	0	0	0	0	0
Thermal	192	0	0	0	0	0
Humidity	192	0	0	0	0	0

DATA SUMMARIES Continued**MEC2-50 pos 2.60 mm thick edge card (Max)**

Date	Aug. 23 2010	Aug. 25 2010	Sep. 06 2010	Sep. 17 2010
Room Temp C	23	23	23	23
RH	50%	50%	52%	52%
Name	Peter Chen	Peter Chen	Peter Chen	Peter Chen
mOhm values	Actual Initial	Delta 100 Cycles	Delta Thermal	Delta Humidity
Average	3.0	0.0	0.4	0.4
St. Dev.	0.5	0.5	0.6	0.5
Min	2.3	-2.8	-2.5	-1.1
Max	5.8	2.1	3.9	2.6
Count	192	192	192	192

How many samples are being tested? 8

How many contacts are on each board? 24

	Stable	Minor	Acceptable	Marginal	Unstable	Open
100 Cycles	192	0	0	0	0	0
Thermal	192	0	0	0	0	0
Humidity	192	0	0	0	0	0

DATA SUMMARIES Continued**GAS TIGHT:**

- 1) A total of 192 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

Date	Aug. 04 2010	Aug. 05 2010
Room Temp C	23	25
RH	52%	56%
Name	Peter Chen	Kason He
mOhm values	Actual Initial	Delta After Gas Tight
Average	3.4	0.1
St. Dev.	0.2	0.5
Min	2.7	-0.9
Max	4.2	3.4
Count	192	192

How many samples are being tested?

8

How many contacts are on each board?

24

	Stable	Minor	Acceptable	Marginal	Unstable	Open
After Gas Tight	192	0	0	0	0	0

DATA**INSULATION RESISTANCE (IR):**

Initial Insulation Resistance			
Measured In Meg Ohms			
Pin to Pin			
Mated		Unmated	
X		X	x
Sample#	MEC2/Card	MEC2	Card
1	10000	10000	
2	10000	10000	

Thermal Insulation Resistance			
Measured In Meg Ohms			
Pin to Pin			
Mated		Unmated	
X		X	x
Sample#	MEC2/Card	MEC2	Card
1	10000	10000	
2	10000	10000	

Humidity Insulation Resistance			
Measured In Meg Ohms			
Pin to Pin			
Mated		Unmated	
X		X	X
Sample#	MEC2/Card	MEC2	Card
1	10000	10000	
2	10000	10000	

DATA Continued**DIELECTRIC WITHSTANDING VOLTAGE (DWV):**

Initial Breakdown Voltage	
Test Voltage <i>Until Breakdown Occurs</i>	

	Pin to Pin		
	Mated	Unmated	
	X		
Sample#	MEC2/Card	MEC2	Card
1	1000	1200	
2	950	1300	

Initial DWV	
Test Voltage= 713	

Pin to Pin			
Mated		Unmated	
Sample#	MEC2/Card	MEC2	Card
1	713	713	
2	713	713	

Thermal Test Voltage	
Test Voltage= 713	

Pin to Pin			
Mated		Unmated	
Sample#	MEC2/Card	MEC2	Card
1	713	713	
2	713	713	

Humidity Test Voltage	
Test Voltage= 713	

Pin to Pin			
Mated		Unmated	
Sample#	MEC2/Card	MEC2	Card
1	713	713	
2	713	713	

DATA Continued**CONTACT GAPS:**

MEC2-50 pos 2.12 mm thick edge card (Min)

Initial										
Units: mm										
Pos.#	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
1	1.3224	1.3311	1.3352	1.3628	1.3362	1.3320	1.3475	1.3318	1.3312	1.3270
2	1.3640	1.3683	1.3609	1.3806	1.3659	1.3652	1.3560	1.3633	1.3609	1.3602
3	1.3545	1.3609	1.3589	1.3661	1.3490	1.3545	1.3614	1.3570	1.3440	1.3495
4	1.3713	1.3475	1.3560	1.3709	1.3510	1.3475	1.3625	1.3544	1.3460	1.3425
5	1.3572	1.3560	1.3586	1.3877	1.3587	1.3656	1.3616	1.3735	1.3537	1.3606
6	1.3656	1.3614	1.3663	1.3865	1.3635	1.3605	1.3565	1.3667	1.3585	1.3555
7	1.3667	1.3625	1.3633	1.3820	1.3688	1.3619	1.3701	1.3756	1.3638	1.3569
8	1.3614	1.3616	1.3681	1.3749	1.3673	1.3573	1.3598	1.3657	1.3623	1.3523
9	1.3597	1.3565	1.3595	1.3826	1.3634	1.3598	1.3739	1.3603	1.3584	1.3548
10	1.4007	1.3701	1.3733	1.3942	1.3818	1.3676	1.3561	1.3629	1.3768	1.3626
11	1.3604	1.3598	1.3661	1.3811	1.3723	1.3654	1.3581	1.3690	1.3673	1.3604
12	1.3605	1.3739	1.3651	1.3779	1.3725	1.3710	1.3517	1.3686	1.3675	1.3660
13	1.3538	1.3561	1.3551	1.3704	1.3590	1.3588	1.3495	1.3569	1.3540	1.3538
14	1.3504	1.3581	1.3592	1.3690	1.3540	1.3508	1.3749	1.3527	1.3490	1.3458
15	1.3620	1.3517	1.3510	1.3668	1.3605	1.3585	1.3826	1.3508	1.3555	1.3535
16	1.3427	1.3495	1.3513	1.3698	1.3474	1.3489	1.3942	1.3426	1.3424	1.3439
17	1.3394	1.3357	1.3435	1.3613	1.3404	1.3403	1.3811	1.3358	1.3354	1.3353
18	1.3316	1.3340	1.3320	1.3537	1.3261	1.3307	1.3779	1.3252	1.3211	1.3257
19	1.3254	1.3245	1.3350	1.3464	1.3253	1.3329	1.3704	1.3260	1.3203	1.3279
20	1.3186	1.3161	1.3174	1.3432	1.3138	1.3230	1.3690	1.3109	1.3088	1.3180
21	1.3280	1.3267	1.3333	1.3414	1.3270	1.3336	1.3668	1.3294	1.3220	1.3286
22	1.3159	1.3197	1.3204	1.3396	1.3205	1.3214	1.3704	1.3200	1.3155	1.3164
23	1.3226	1.3256	1.3336	1.3427	1.3176	1.3181	1.3690	1.3286	1.3126	1.3131
24	1.3195	1.3103	1.3149	1.3419	1.3034	1.2986	1.3668	1.3201	1.2984	1.2936
25	1.3168	1.3281	1.3293	1.3429	1.3284	1.3307	1.3698	1.3195	1.3234	1.3257
26	1.3079	1.3285	1.3171	1.3408	1.2975	1.3131	1.3613	1.3125	1.2925	1.3081
27	1.3170	1.3128	1.3212	1.3545	1.3292	1.3268	1.3537	1.3236	1.3242	1.3218
28	1.3122	1.3246	1.3168	1.3394	1.3112	1.3201	1.3464	1.3137	1.3062	1.3151
29	1.3172	1.3107	1.3103	1.3510	1.3065	1.3056	1.3432	1.3200	1.3015	1.3006
30	1.3418	1.3303	1.3300	1.3618	1.3326	1.3354	1.3414	1.3354	1.3276	1.3304
31	1.3149	1.3229	1.3210	1.3501	1.3238	1.3188	1.3396	1.3154	1.3188	1.3138
32	1.3222	1.3179	1.3139	1.3387	1.3216	1.3227	1.3510	1.3147	1.3166	1.3177
33	1.3262	1.3219	1.3263	1.3538	1.3282	1.3267	1.3513	1.3178	1.3232	1.3217
34	1.3292	1.3311	1.3367	1.3534	1.3331	1.3283	1.3435	1.3270	1.3281	1.3233
35	1.3227	1.3215	1.3294	1.3503	1.3287	1.3276	1.3320	1.3261	1.3237	1.3226
36	1.3381	1.3321	1.3301	1.3450	1.3370	1.3253	1.3350	1.3320	1.3320	1.3203
37	1.3252	1.3344	1.3313	1.3495	1.3319	1.3289	1.3174	1.3320	1.3269	1.3239
38	1.3388	1.3368	1.3887	1.3581	1.3407	1.3271	1.3333	1.3325	1.3357	1.3221
39	1.3320	1.3347	1.3369	1.3536	1.3345	1.3237	1.3204	1.3267	1.3295	1.3187
40	1.3325	1.3383	1.4384	1.3474	1.3399	1.3243	1.3336	1.3239	1.3349	1.3193
41	1.3308	1.3287	1.3289	1.3456	1.3361	1.3325	1.3171	1.3327	1.3311	1.3275
42	1.3224	1.3377	1.4308	1.3576	1.3320	1.3304	1.3212	1.3349	1.3270	1.3254
43	1.3298	1.3246	1.3351	1.3500	1.3267	1.3211	1.3168	1.3275	1.3217	1.3161

44	1.3257	1.3129	1.4228	1.3322	1.3135	1.3227	1.3103	1.3102	1.3085	1.3177
45	1.3162	1.3162	1.5328	1.3387	1.3115	1.3263	1.3300	1.3074	1.3065	1.3213
46	1.3153	1.3008	1.3256	1.3338	1.3040	1.4064	1.3210	1.2960	1.2990	1.4014
47	1.2874	1.3041	1.4303	1.3321	1.3011	1.3000	1.3139	1.2950	1.2961	1.2950
48	1.2789	1.2910	1.5166	1.3424	1.2943	1.3831	1.3263	1.2907	1.2893	1.3781
49	1.2483	1.2504	1.3466	1.3745	1.2365	1.3404	1.3367	1.2447	1.2315	1.3354
After 100 Cycles										
Units: mm										
Pos.#	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
1	1.5616	1.5491	1.5254	1.6401	1.6590	1.6986	1.5889	1.6581	1.5502	1.5149
2	1.6018	1.5438	1.5138	1.6584	1.5643	1.5544	1.5556	1.5657	1.5296	1.5033
3	1.5828	1.5301	1.5142	1.5180	1.5604	1.5498	1.5504	1.5695	1.6647	1.5037
4	1.5874	1.5265	1.5124	1.5187	1.5337	1.5386	1.5324	1.5541	1.5239	1.5019
5	1.5824	1.6634	1.5194	1.5188	1.5471	1.5588	1.5302	1.5533	1.5277	1.5089
6	1.5540	1.5175	1.5129	1.5232	1.5209	1.5435	1.5333	1.5403	1.5282	1.5024
7	1.5693	1.5246	1.5215	1.5167	1.5325	1.5318	1.5449	1.5425	1.5380	1.5110
8	1.5557	1.5279	1.5134	1.5290	1.5292	1.5304	1.5409	1.5408	1.5273	1.5029
9	1.5538	1.5257	1.5202	1.5301	1.5331	1.5364	1.5463	1.5434	1.5408	1.5097
10	1.5500	1.5196	1.5149	1.5399	1.5229	1.5361	1.5397	1.5359	1.5302	1.5044
11	1.5470	1.5258	1.5200	1.5362	1.5297	1.5517	1.5569	1.5441	1.5288	1.5095
12	1.5677	1.5369	1.5254	1.5460	1.5394	1.5385	1.5435	1.5453	1.5276	1.5149
13	1.5487	1.5395	1.5264	1.6847	1.5313	1.5531	1.5657	1.5418	1.5435	1.5159
14	1.5646	1.5492	1.5393	1.5648	1.5380	1.5548	1.5600	1.5580	1.5492	1.5288
15	1.5807	1.5553	1.5412	1.5687	1.5488	1.5641	1.5754	1.5616	1.5583	1.5307
16	1.5581	1.5564	1.5404	1.5702	1.5350	1.5661	1.4921	1.4685	1.5434	1.5299
17	1.7382	1.5479	1.5415	1.5617	1.5418	1.5685	1.5816	1.5522	1.5535	1.5310
18	1.5484	1.5664	1.5474	1.6725	1.5553	1.5736	1.5903	1.5697	1.4858	1.5369
19	1.5467	1.5590	1.5435	1.5791	1.5563	1.5634	1.5966	1.5896	1.6989	1.5330
20	1.5405	1.5686	1.5564	1.6944	1.5564	1.5739	1.5899	1.6259	1.5619	1.5459
21	1.5380	1.5622	1.5513	1.7221	1.6360	1.5691	1.6590	1.6345	1.7378	1.5408
22	1.5312	1.5591	1.5560	1.8015	1.6243	1.5883	1.5807	1.6213	1.7572	1.5455
23	1.5237	1.5806	1.5716	1.6802	1.6412	1.5816	1.6860	1.6474	1.8067	1.5611
24	1.5297	1.6060	1.5934	1.6923	1.6287	1.6404	1.7802	1.6459	1.7782	1.5829
25	1.5279	1.7251	1.6461	1.6866	1.6208	1.6624	1.6590	1.6464	1.6039	1.6356
26	1.5345	1.5806	1.5887	1.7835	1.6577	1.6816	1.6590	1.6918	1.7765	1.5782
27	1.5244	1.5731	1.7686	1.7515	1.6410	1.6393	1.7629	1.7001	1.7191	1.7581
28	1.5354	1.6341	1.6204	1.6080	1.6590	1.7756	1.6589	1.6659	1.6333	1.6099
29	1.5382	1.6171	1.6590	1.6590	1.6590	1.6659	1.6493	1.6699	1.6800	1.6485
30	1.5430	1.5935	1.5397	1.5359	1.5302	1.5686	1.6567	1.6525	1.6599	1.5292
31	1.5431	1.5895	1.5569	1.5441	1.5288	1.6461	1.6866	1.6208	1.5470	1.5464
32	1.5544	1.5953	1.5435	1.5453	1.5276	1.5887	1.7835	1.6577	1.5499	1.5330
33	1.5429	1.5962	1.5657	1.5418	1.5435	1.7686	1.7515	1.6410	1.5313	1.5552
34	1.5430	1.5844	1.5600	1.5580	1.5492	1.6204	1.6080	1.6590	1.5521	1.5495
35	1.5560	1.6029	1.5754	1.5616	1.5583	1.6590	1.6590	1.6590	1.5375	1.5649
36	1.5585	1.6120	1.4921	1.4685	1.5434	1.5806	1.5716	1.6802	1.5473	1.4816
37	1.5105	1.6090	1.5816	1.5522	1.5535	1.6060	1.5934	1.6923	1.5457	1.5711
38	1.5597	1.6233	1.5903	1.5697	1.4858	1.7251	1.6461	1.6866	1.5573	1.5798
39	1.5663	1.6239	1.5966	1.5896	1.6989	1.5806	1.5887	1.7835	1.5480	1.5861
40	1.5793	1.6447	1.5657	1.5418	1.5435	1.5731	1.7686	1.7515	1.5622	1.5552

41	1.5814	1.6192	1.5600	1.5580	1.5492	1.6341	1.6204	1.6080	1.4678	1.5495
42	1.5942	1.7251	1.5754	1.5616	1.5583	1.6171	1.6590	1.6590	1.5674	1.5649
43	1.4825	1.5806	1.4921	1.4685	1.5434	1.5935	1.5397	1.5359	1.5730	1.4816
44	1.6488	1.5731	1.5816	1.5522	1.5535	1.5435	1.5731	1.7686	1.5821	1.5711
45	1.6578	1.6341	1.5903	1.5697	1.4858	1.5492	1.6341	1.6204	1.5802	1.5798
46	1.6851	1.6171	1.5793	1.6447	1.5657	1.5418	1.5435	1.5434	1.5893	1.5688
47	1.6524	1.6255	1.6024	1.6126	1.6026	1.6584	1.5966	1.5988	1.6526	1.6590
48	1.6236	1.5966	1.5866	1.6236	1.6236	1.6590	1.6526	1.6570	1.6255	1.6589
49	1.6126	1.6026	1.5970	1.5766	1.6537	1.6633	1.5970	1.6660	1.6590	1.6599

After Thermal

Units: mm

Pos.#	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
1	1.7850	1.7220	1.6988	1.7779	1.7375	1.7760	1.7788	1.7979	1.7535	1.7741
2	1.7695	1.7405	1.7276	1.8027	1.7542	1.7519	1.7598	1.8049	1.7380	1.7527
3	1.7596	1.6926	1.6549	1.7813	1.7735	1.7791	1.7654	1.8062	1.7494	1.7576
4	1.7541	1.6944	1.7022	1.7722	1.7444	1.7701	1.7837	1.7737	1.7400	1.7211
5	1.7171	1.7158	1.7639	1.7501	1.7515	1.7667	1.7237	1.7700	1.7276	1.7570
6	1.7098	1.7323	1.7229	1.7535	1.7643	1.7096	1.7737	1.7735	1.7130	1.7486
7	1.7048	1.7054	1.7028	1.7412	1.7572	1.7144	1.7225	1.7507	1.7088	1.7305
8	1.6981	1.7386	1.6882	1.7536	1.7648	1.7039	1.7221	1.7660	1.7062	1.7376
9	1.6914	1.6895	1.6954	1.7541	1.6996	1.7059	1.7288	1.7625	1.7224	1.7312
10	1.7013	1.7014	1.6975	1.7607	1.7018	1.6919	1.7245	1.7236	1.7052	1.7239
11	1.6913	1.6886	1.6808	1.7435	1.6989	1.7054	1.7232	1.7079	1.7074	1.7340
12	1.6904	1.7654	1.6860	1.7521	1.6787	1.6987	1.7207	1.6939	1.6965	1.7305
13	1.6774	1.6799	1.6754	1.7430	1.6794	1.6950	1.7058	1.6970	1.7035	1.7174
14	1.6757	1.6852	1.6785	1.7755	1.6927	1.6987	1.7125	1.7033	1.7020	1.7270
15	1.6899	1.6924	1.6797	1.7410	1.6833	1.6889	1.7007	1.7037	1.6960	1.7188
16	1.6805	1.6858	1.6765	1.7660	1.6742	1.6927	1.7122	1.6867	1.6823	1.7060
17	1.6813	1.6719	1.6652	1.7179	1.6864	1.6728	1.6823	1.6829	1.6830	1.6873
18	1.6731	1.6688	1.6536	1.7301	1.6590	1.6785	1.6955	1.6843	1.6748	1.7045
19	1.6684	1.6585	1.6620	1.7244	1.6633	1.6685	1.6763	1.6767	1.6791	1.6960
20	1.6603	1.6560	1.6583	1.7330	1.6729	1.6718	1.6877	1.6864	1.6809	1.6970
21	1.6690	1.6635	1.6603	1.7181	1.6684	1.6678	1.6839	1.6807	1.6721	1.6746
22	1.6625	1.6607	1.6461	1.7332	1.6725	1.6628	1.6866	1.6884	1.6794	1.6863
23	1.6687	1.6557	1.6617	1.7096	1.6647	1.6747	1.6666	1.6804	1.6707	1.6799
24	1.6600	1.6507	1.6512	1.7252	1.6761	1.6810	1.6731	1.6892	1.6706	1.6818
25	1.6659	1.6614	1.6499	1.7015	1.6629	1.6622	1.6642	1.6812	1.6560	1.6646
26	1.6669	1.6564	1.6428	1.7216	1.6786	1.6640	1.6812	1.6871	1.6457	1.6805
27	1.6646	1.6524	1.6367	1.7184	1.6775	1.6618	1.6778	1.6847	1.6541	1.6726
28	1.6637	1.6632	1.6336	1.7512	1.6896	1.6599	1.6961	1.6590	1.6611	1.6658
29	1.6604	1.6528	1.6388	1.6439	1.6776	1.6785	1.6921	1.7105	1.6653	1.6746
30	1.6590	1.6575	1.6310	1.6428	1.6727	1.6712	1.6752	1.6949	1.6607	1.6785
31	1.6554	1.6581	1.6413	1.6377	1.6764	1.6801	1.6658	1.6941	1.6757	1.6772
32	1.6610	1.6575	1.6421	1.6522	1.6794	1.6775	1.6730	1.6919	1.6839	1.6831
33	1.6610	1.6640	1.6578	1.6613	1.6893	1.6816	1.6743	1.6967	1.7014	1.6893
34	1.6816	1.6760	1.6700	1.6632	1.6788	1.6859	1.6808	1.6973	1.6886	1.6775
35	1.6752	1.6759	1.6621	1.6482	1.6959	1.6853	1.6822	1.6959	1.6923	1.7003
36	1.6840	1.6690	1.6675	1.6504	1.6939	1.6917	1.6807	1.6941	1.6867	1.6945
37	1.6701	1.6807	1.6679	1.6605	1.6987	1.6903	1.6787	1.6838	1.6975	1.6950

38	1.6890	1.6750	1.6682	1.6651	1.7116	1.6961	1.6828	1.6820	1.6949	1.6868
39	1.6734	1.6838	1.6640	1.6559	1.6973	1.6949	1.6871	1.6843	1.6840	1.6939
40	1.6723	1.6820	1.6728	1.6405	1.6914	1.6962	1.6781	1.6811	1.6835	1.6968
41	1.6781	1.6692	1.6632	1.6563	1.7089	1.7081	1.6841	1.6855	1.6975	1.7027
42	1.6831	1.6704	1.6653	1.6542	1.6916	1.6889	1.6796	1.6834	1.6878	1.6976
43	1.6844	1.6776	1.6747	1.6332	1.6836	1.6976	1.6687	1.6824	1.6837	1.6741
44	1.6716	1.6650	1.6660	1.6562	1.6851	1.6859	1.6685	1.6878	1.6757	1.6961
45	1.6995	1.6728	1.6729	1.6714	1.6914	1.6976	1.6686	1.6933	1.6895	1.7303
46	1.6980	1.6831	1.7737	1.6662	1.6996	1.7003	1.6803	1.6957	1.6941	1.7128
47	1.7083	1.6982	1.6751	1.6756	1.7015	1.7023	1.7037	1.7070	1.6744	1.7108
48	1.7157	1.7147	1.6849	1.6844	1.6861	1.6830	1.6713	1.6768	1.6639	1.6981
49	1.6524	1.6659	1.6860	1.6690	1.6790	1.6660	1.6755	1.6655	1.6785	1.6590

DATA Continued**CONTACT GAPS:**

MEC2-20 pos 2.36 mm thick edge card (Mid)

Initial						
Units: mm						
Pos.#	B1	B2	B3	B4	B5	B6
1	1.2712	1.2777	1.2434	1.2762	1.2613	1.2856
2	1.2255	1.2143	1.2001	1.2048	1.2799	1.2110
3	1.2809	1.2164	1.2046	1.2176	1.2001	1.2244
4	1.2617	1.2264	1.2177	1.2310	1.2105	1.2000
5	1.2037	1.2357	1.2295	1.2299	1.2217	1.2174
6	1.2774	1.2437	1.2407	1.2373	1.2436	1.2526
7	1.2568	1.2686	1.2668	1.2620	1.2715	1.2653
8	1.2486	1.2272	1.2144	1.2215	1.2231	1.2190
9	1.2397	1.2250	1.2119	1.2175	1.2121	1.2182
10	1.2323	1.2263	1.2156	1.2252	1.2149	1.2148
11	1.2393	1.2378	1.2184	1.2541	1.2244	1.2157
12	1.2502	1.2366	1.2403	1.2478	1.2373	1.2253
13	1.2557	1.2472	1.2469	1.2546	1.2445	1.2429
14	1.2588	1.2524	1.2459	1.2607	1.2533	1.2493
15	1.2557	1.2590	1.2546	1.2620	1.2572	1.2605
16	1.2694	1.2720	1.2578	1.2627	1.2632	1.2669
17	1.2648	1.2650	1.2433	1.2598	1.2649	1.2616
18	1.2439	1.2452	1.2443	1.2549	1.2420	1.2500
19	1.2774	1.2888	1.2745	1.2709	1.2771	1.2587
After 100 Cycles						
Units: mm						
Pos.#	B1	B2	B3	B4	B5	B6
1	1.5257	1.5156	1.5881	1.5562	1.5426	1.5565
2	1.5171	1.5774	1.5556	1.5371	1.5148	1.5300
3	1.5860	1.6006	1.5472	1.5156	1.5080	1.5304
4	1.5260	1.5810	1.5483	1.5150	1.5122	1.5270
5	1.5854	1.5499	1.5485	1.5156	1.5095	1.5324
6	1.5345	1.5667	1.5548	1.5113	1.5143	1.5442
7	1.5211	1.5254	1.5780	1.5365	1.5316	1.5728
8	1.5300	1.5497	1.5469	1.5163	1.5144	1.5559
9	1.6050	1.5345	1.5336	1.5029	1.5007	1.5306
10	1.5951	1.5599	1.5217	1.4961	1.4909	1.5298
11	1.5912	1.5297	1.5284	1.4967	1.5025	1.5280
12	1.5893	1.5358	1.5192	1.5033	1.4982	1.5259
13	1.5286	1.5428	1.5305	1.5136	1.4994	1.5303
14	1.5990	1.5531	1.5454	1.5162	1.5101	1.5384
15	1.5978	1.5595	1.5518	1.5310	1.5220	1.5433
16	1.5038	1.5582	1.5710	1.5378	1.5326	1.5550
17	1.5075	1.5867	1.5899	1.5383	1.5471	1.5749
18	1.5229	1.5127	1.5106	1.5611	1.5703	1.5884
19	1.5216	1.5248	1.5254	1.5944	1.5969	1.5042

DATA Continued**CONTACT GAPS:**

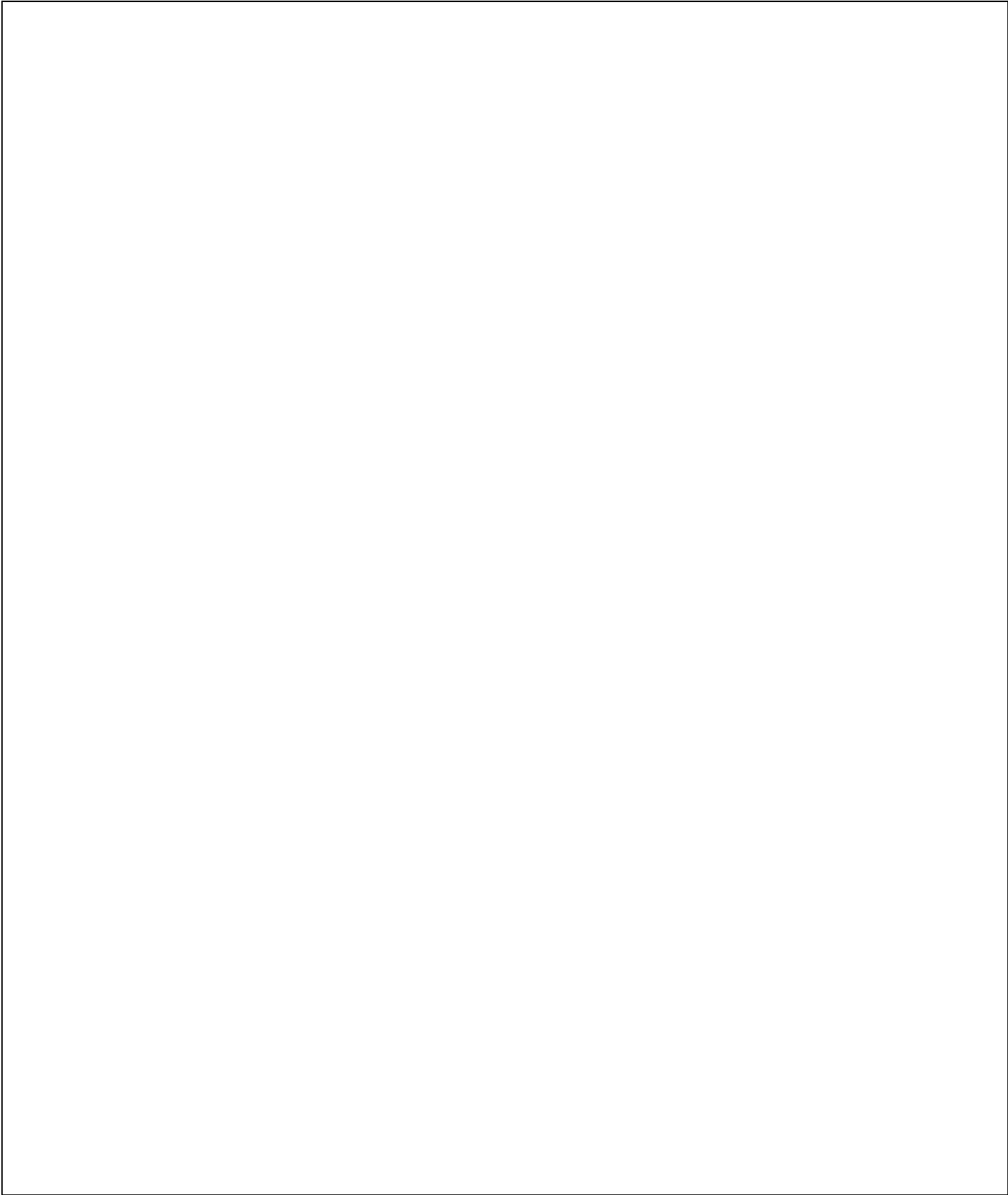
MEC2-08 pos 2.36 mm thick edge card (Mid)

Initial						
Units: mm						
Pos.#	B1	B2	B3	B4	B5	B6
1	1.2755	1.2714	1.2661	1.2623	1.2625	1.2505
2	1.2396	1.2485	1.2465	1.2507	1.2395	1.2493
3	1.2475	1.2514	1.2492	1.2510	1.2483	1.2570
4	1.2510	1.2477	1.2392	1.2479	1.2473	1.2507
5	1.2429	1.2428	1.2436	1.2495	1.2344	1.2453
6	1.2462	1.2599	1.2635	1.2569	1.2514	1.2463
7	1.2755	1.2933	1.2834	1.2874	1.2788	1.2842
After 100 Cycles						
Units: mm						
Pos.#	B1	B2	B3	B4	B5	B6
1	1.5975	1.6126	1.6170	1.6174	1.6107	1.6044
2	1.5692	1.5824	1.5866	1.5870	1.5771	1.5811
3	1.5516	1.5644	1.5596	1.5611	1.5601	1.5588
4	1.5460	1.5612	1.5536	1.5552	1.5553	1.5600
5	1.5394	1.5729	1.5591	1.5645	1.5594	1.5536
6	1.5559	1.5855	1.5703	1.5828	1.5726	1.5627
7	1.5630	1.5876	1.5756	1.5808	1.5588	1.5780

DATA Continued**Mating—Unmating****MEC2-50 pos 2.12 mm thick edge card (Min)**

<u>Sample#</u>	Initial		After 25 Cycles		After 50 Cycles		After 75 Cycles	
	<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	15.15	5.89	13.38	5.56	10.96	5.40	10.14	5.10
2	14.91	6.64	13.05	5.60	11.60	5.05	10.46	4.95
3	14.66	6.13	13.08	5.42	12.22	5.36	10.16	4.90
4	14.18	5.84	13.12	5.49	10.34	4.98	10.24	4.31
5	14.22	6.09	13.87	5.40	13.96	5.14	10.11	4.78
6	14.13	6.26	12.11	5.82	11.86	5.36	10.62	4.98
7	15.46	6.37	14.53	5.95	12.83	5.60	11.23	5.65
8	15.17	6.84	14.31	5.53	11.05	5.80	11.28	4.92
9	14.42	5.84	12.52	5.07	11.36	4.74	9.64	4.74
10	14.16	6.26	12.15	5.31	12.00	5.29	11.01	4.97
<u>Sample#</u>	After 100 Cycles		After Thermals		After Humidity			
	<u>Mating</u>	<u>Unmating</u>	<u>Mating</u>	<u>Unmating</u>	<u>Mating</u>	<u>Unmating</u>		
1	10.62	5.54	8.40	4.54	8.38	5.84		
2	10.59	4.22	8.00	4.48	7.98	5.14		
3	10.99	5.68	8.62	4.41	7.59	5.91		
4	11.40	5.14	8.95	4.06	8.16	5.14		
5	10.62	5.10	6.95	4.52	7.45	5.51		
6	10.74	4.90	8.58	4.56	7.61	5.16		
7	9.97	4.60	8.45	4.67	8.62	5.05		
8	10.40	4.77	7.94	4.92	8.73	5.53		
9	11.03	4.38	8.09	3.81	7.39	4.37		
10	11.67	5.24	8.91	4.74	8.60	5.87		

Tracking Code: TC1032--3493_Report_Rev_1	Part #: MEC2-50-02-L-DV-WT\Mating Card
Part description: MEC2	



DATA Continued**Mating—Unmating**

MEC2-20 pos 2.36 mm thick edge card (Mid)

Sample#	Initial		After 25 Cycles		After 50 Cycles		After 75 Cycles		After 100 Cycles	
	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	5.91	2.23	5.40	1.96	4.48	1.74	4.34	1.81	3.99	1.74
2	5.40	2.07	5.23	1.87	4.43	1.74	4.30	1.74	4.08	1.72
3	5.62	1.96	5.29	1.87	5.01	1.81	4.43	1.81	4.10	1.83
4	5.91	1.98	5.14	1.92	5.49	1.85	4.78	1.85	4.52	1.85
5	5.82	1.98	5.51	1.94	5.34	1.92	4.85	1.87	4.26	1.83
6	5.82	2.05	5.12	1.98	4.26	1.83	4.32	1.81	4.32	1.76

Mating—Unmating

MEC2-08 pos 2.36 mm thick edge card (Mid)

Sample#	Initial		After 25 Cycles		After 50 Cycles		After 75 Cycles		After 100 Cycles	
	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	1.79	0.71	1.59	0.79	1.65	0.71	1.57	0.64	1.39	0.71
2	1.79	0.73	1.83	0.71	1.76	0.71	1.39	0.66	1.65	0.77
3	2.05	0.79	2.14	0.68	1.72	0.75	1.65	0.75	1.74	0.66
4	1.94	0.75	1.92	0.75	1.70	0.68	1.85	0.75	1.72	0.68
5	1.59	0.66	1.70	0.79	1.59	0.84	1.59	0.75	1.48	0.73
6	1.76	0.73	1.76	0.75	1.57	0.64	1.52	0.68	1.43	0.73

DATA Continued**NORMAL FORCE:****Initial**

Initial	Deflections in mm Forces in Grams			
<u>Sample #</u>	<u>0.34</u>	<u>0.51</u>	<u>0.68</u>	<u>SET</u>
1	57.70	76.40	88.60	0.19
2	58.10	77.40	90.20	0.20
3	58.40	77.40	90.90	0.19
4	62.00	81.70	93.80	0.18
5	60.00	79.10	91.90	0.18
6	59.70	78.70	91.50	0.20
7	58.70	77.40	91.20	0.19
8	59.40	79.10	92.20	0.19
9	59.70	78.10	91.90	0.19
10	60.40	79.40	91.90	0.19
11	60.70	79.70	92.90	0.20
12	59.70	78.10	91.50	0.20
13	58.40	77.40	90.90	0.20

After thermal

Thermal	Deflections in mm Forces in Grams			
<u>Sample #</u>	<u>0.34</u>	<u>0.51</u>	<u>0.68</u>	<u>SET</u>
1	62.30	81.80	94.70	0.18
2	62.00	80.70	94.50	0.18
3	59.40	80.70	93.20	0.18
4	60.40	80.40	93.50	0.18
5	62.00	81.70	94.50	0.18
6	60.70	80.10	92.90	0.18
7	61.30	81.00	94.50	0.18
8	61.30	81.40	93.80	0.18
9	58.40	79.70	92.90	0.17
10	60.70	82.00	95.50	0.17
11	60.40	80.40	94.20	0.18
12	60.70	82.00	95.20	0.18
13	60.70	81.00	93.80	0.18

DATA Continued**LLCR:****MEC2-50 pos 2.12mm thick edge card (Min)**

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	100 Cycles	Thermal	Humidity
1	P1	3.5	-0.2	0.1	2.2
1	P2	3.4	-0.5	0.3	1.9
1	P3	3.5	-0.1	-0.4	2.6
1	P4	3.8	-0.5	-1.0	1.5
1	P5	3.2	-0.3	0.0	2.0
1	P6	3.2	0.0	0.4	0.8
1	P7	3.4	-0.3	-0.3	2.1
1	P8	3.4	-0.6	-0.1	0.6
1	P9	3.4	0.1	0.3	1.7
1	P10	3.2	-0.1	0.3	0.1
1	P11	3.4	-0.5	-0.6	0.0
1	P12	3.2	0.0	0.4	0.8
1	P13	3.2	-0.1	-0.3	0.8
1	P14	3.5	-0.5	-0.4	0.4
1	P15	2.8	0.4	0.9	2.9
1	P16	2.8	0.1	0.4	0.4
1	P17	2.9	0.1	-0.2	-0.2
1	P18	3.1	-0.3	-0.1	2.4
1	P19	3.3	-0.2	-0.9	0.2
1	P20	3.5	-0.2	-0.2	0.8
1	P21	3.2	0.9	0.4	0.4
1	P22	3.2	0.8	0.8	0.7
1	P23	3.4	0.0	-0.2	1.5
1	P24	3.4	0.1	-0.5	1.4
2	P1	3.9	-0.8	0.2	1.0
2	P2	3.0	0.2	0.4	2.3
2	P3	3.2	-0.2	0.4	0.5
2	P4	3.6	0.1	-0.4	-0.1
2	P5	3.2	0.2	1.2	0.3
2	P6	3.2	0.0	0.8	1.6
2	P7	3.1	0.0	0.8	0.5
2	P8	3.0	0.3	0.1	0.3
2	P9	3.6	-0.1	0.1	-0.1
2	P10	3.4	-0.3	0.2	0.1
2	P11	3.0	-0.1	0.0	0.3
2	P12	3.4	-0.3	0.2	0.1
2	P13	3.1	0.6	0.1	0.7
2	P14	3.0	0.7	1.1	2.7
2	P15	3.3	-0.3	-0.2	0.5
2	P16	3.1	-0.3	0.5	0.3
2	P17	3.1	0.1	0.5	0.3
2	P18	3.3	-0.1	0.2	-0.1

2	P19	3.3	0.0	0.9	0.5
2	P20	3.3	-0.2	0.9	0.8
2	P21	3.7	-0.3	-0.2	-0.4
2	P22	3.5	0.7	0.2	0.3
2	P23	3.3	1.6	2.7	3.8
2	P24	3.3	-0.1	0.7	1.2
3	P1	3.6	-0.4	-0.3	2.0
3	P2	3.3	0.4	0.4	2.2
3	P3	3.5	-0.5	-0.2	1.4
3	P4	3.1	0.2	0.4	0.7
3	P5	2.9	-0.1	1.1	1.0
3	P6	2.9	2.3	2.3	3.4
3	P7	3.1	-0.1	0.4	2.6
3	P8	3.0	0.1	0.4	0.8
3	P9	2.7	-0.3	-0.1	0.8
3	P10	3.1	-0.1	0.3	2.4
3	P11	2.6	0.3	0.3	0.8
3	P12	2.7	-0.1	0.0	1.3
3	P13	3.0	-0.2	0.5	1.2
3	P14	3.0	-0.2	0.1	1.9
3	P15	2.5	0.5	0.3	1.5
3	P16	3.0	-0.3	-0.1	2.0
3	P17	2.9	-0.1	0.5	0.5
3	P18	3.3	-0.2	0.1	1.7
3	P19	3.1	-0.3	0.1	0.6
3	P20	3.2	0.3	-0.5	0.4
3	P21	3.4	0.3	0.1	-0.4
3	P22	3.2	0.1	0.3	0.5
3	P23	3.1	0.9	1.3	1.4
3	P24	3.6	0.1	0.4	0.7
4	P1	3.7	0.0	0.4	-0.2
4	P2	3.3	0.2	0.7	0.7
4	P3	3.0	0.2	1.0	0.6
4	P4	3.5	0.1	0.8	0.5
4	P5	3.4	0.3	0.4	0.2
4	P6	3.7	0.0	-0.6	2.6
4	P7	3.4	-0.4	0.2	2.4
4	P8	3.1	0.2	0.7	0.1
4	P9	2.9	-0.1	0.4	1.1
4	P10	3.4	-0.3	-0.5	0.4
4	P11	3.0	0.3	0.2	0.5
4	P12	3.3	-0.2	0.5	0.4
4	P13	2.9	0.1	0.5	0.5
4	P14	2.8	0.2	-0.1	3.1
4	P15	2.9	0.4	-0.1	0.9
4	P16	3.2	0.0	0.7	0.0
4	P17	2.8	0.0	0.4	1.0
4	P18	3.1	-0.3	0.4	1.0
4	P19	3.1	0.0	-0.4	0.2

4	P20	3.5	-0.1	0.4	0.5
4	P21	3.4	-0.1	0.6	0.1
4	P22	3.4	-0.4	-0.4	0.6
4	P23	3.7	-0.5	-0.5	0.3
4	P24	3.9	0.0	-0.5	1.0
5	P1	3.5	0.5	1.1	2.2
5	P2	3.4	0.1	0.4	1.4
5	P3	3.9	-0.8	-0.4	0.4
5	P4	4.0	-0.9	-0.4	0.4
5	P5	3.7	-0.4	0.1	2.0
5	P6	3.6	-0.4	-0.2	0.2
5	P7	3.1	0.3	0.5	4.2
5	P8	2.7	0.6	0.9	2.2
5	P9	3.0	0.4	0.1	1.2
5	P10	3.2	0.2	-0.3	1.4
5	P11	3.0	0.2	0.4	1.3
5	P12	2.7	0.6	0.4	3.3
5	P13	3.5	-0.5	-0.6	2.7
5	P14	3.0	0.4	0.2	3.2
5	P15	3.5	0.2	0.0	1.6
5	P16	3.0	-0.2	0.9	2.4
5	P17	3.1	0.1	0.6	3.5
5	P18	3.2	0.6	2.5	1.0
5	P19	3.1	0.5	1.7	4.4
5	P20	3.2	0.0	0.4	3.2
5	P21	3.4	-0.4	-0.3	2.7
5	P22	3.3	0.5	0.9	2.8
5	P23	4.8	-0.9	-1.5	0.4
5	P24	3.7	-0.7	0.0	1.6
6	P1	3.3	-0.3	0.0	0.7
6	P2	3.4	-0.3	-0.2	3.1
6	P3	3.7	-0.4	-0.5	2.3
6	P4	3.2	0.4	0.1	1.9
6	P5	3.1	0.1	0.6	1.5
6	P6	3.5	-0.8	-0.5	-0.4
6	P7	3.0	0.4	0.0	0.1
6	P8	3.2	0.0	0.2	0.2
6	P9	3.1	0.2	0.4	0.5
6	P10	3.1	0.1	0.2	0.5
6	P11	3.4	-0.5	-0.3	0.3
6	P12	3.7	-0.7	-0.4	-0.6
6	P13	3.8	-0.6	-0.9	-0.3
6	P14	5.8	-2.9	-3.2	-2.3
6	P15	3.1	0.4	0.0	0.6
6	P16	3.3	-0.1	0.2	-0.2
6	P17	3.4	0.0	-0.3	0.3
6	P18	3.8	-0.7	-0.5	-0.6
6	P19	3.5	0.3	-0.4	-0.2
6	P20	3.6	-0.6	-0.1	0.1

6	P21	3.5	-0.8	-0.7	-0.1
6	P22	3.5	0.2	-0.7	0.1
6	P23	3.2	-0.2	0.0	1.1
6	P24	3.3	-0.3	-0.1	0.7
7	P1	3.3	0.1	0.0	1.8
7	P2	3.3	0.4	0.3	2.2
7	P3	3.1	0.3	0.8	1.0
7	P4	3.0	0.5	0.4	2.2
7	P5	3.2	0.1	0.3	0.3
7	P6	3.2	0.4	0.7	2.6
7	P7	3.1	-0.1	0.8	0.9
7	P8	3.0	0.2	0.6	4.1
7	P9	3.5	-0.5	0.4	1.7
7	P10	3.5	-0.5	-0.1	1.2
7	P11	3.2	-0.3	0.0	1.3
7	P12	3.6	-0.8	0.1	2.8
7	P13	3.4	-0.5	-0.5	2.5
7	P14	2.9	0.4	0.7	1.6
7	P15	3.0	0.0	0.4	0.8
7	P16	3.3	0.0	0.6	1.9
7	P17	2.9	0.1	0.2	3.0
7	P18	2.9	0.2	0.2	1.1
7	P19	3.5	-0.6	-0.2	0.2
7	P20	3.1	0.3	1.8	4.7
7	P21	3.2	0.1	0.7	4.8
7	P22	3.5	0.1	1.0	1.8
7	P23	3.3	0.8	0.9	4.4
7	P24	3.2	-0.1	0.4	1.0
8	P1	3.5	0.1	0.4	1.1
8	P2	3.5	0.3	0.1	-0.1
8	P3	3.6	-0.3	0.3	0.5
8	P4	3.6	-0.3	0.2	0.5
8	P5	3.0	1.0	0.9	0.8
8	P6	3.5	0.1	0.1	0.6
8	P7	3.2	-0.3	0.3	2.0
8	P8	3.3	-0.4	0.1	1.5
8	P9	3.2	-0.7	0.2	1.7
8	P10	3.0	0.0	-0.1	2.9
8	P11	2.9	0.1	0.1	1.9
8	P12	3.1	0.2	0.0	3.6
8	P13	3.6	-0.7	-0.2	2.1
8	P14	3.5	-0.1	-0.1	0.1
8	P15	3.4	-0.7	-0.2	3.0
8	P16	3.0	0.1	0.6	3.1
8	P17	3.4	-0.5	-0.1	0.5
8	P18	3.4	-0.4	0.7	2.2
8	P19	2.9	0.0	0.1	3.2
8	P20	3.7	-0.7	-0.2	1.3
8	P21	3.0	0.3	0.4	1.9

8	P22	3.1	0.6	1.6	4.1
8	P23	3.1	0.4	0.7	1.3
8	P24	3.5	0.0	-0.2	1.5

MEC2-50 pos 2.60mm thick edge card (Max)

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	100 Cycles	Thermal	Humidity
1	P1	5.7	-2.1	-2.5	-1.1
1	P2	5.3	-2.3	0.8	0.8
1	P3	5.8	-2.8	-1.6	-0.4
1	P4	3.9	-0.9	3.9	1.4
1	P5	3.8	-1.1	2.0	2.0
1	P6	2.8	-0.2	-0.1	-0.1
1	P7	3.0	-0.2	0.0	0.0
1	P8	2.9	-0.3	0.4	0.4
1	P9	2.8	0.0	0.5	0.5
1	P10	3.2	-0.5	0.2	0.2
1	P11	3.1	-0.4	0.3	0.3
1	P12	2.9	-0.2	0.3	0.3
1	P13	3.1	-0.2	0.0	0.0
1	P14	2.8	-0.1	-0.1	-0.1
1	P15	2.5	0.5	1.8	1.8
1	P16	2.7	0.1	1.2	1.2
1	P17	2.6	0.1	1.5	1.5
1	P18	3.5	-0.8	1.2	1.2
1	P19	2.5	-0.1	1.8	1.8
1	P20	5.4	-2.3	-0.3	-0.3
1	P21	4.7	-1.8	2.9	1.2
1	P22	3.5	-0.9	-0.3	-0.3
1	P23	3.0	0.1	1.6	1.6
1	P24	3.9	-0.4	-0.4	-0.1
2	P1	3.4	0.3	1.2	1.2
2	P2	3.2	0.4	2.3	2.3
2	P3	3.4	0.0	1.1	1.1
2	P4	3.3	0.0	1.0	1.0
2	P5	3.5	-0.2	0.0	0.0
2	P6	3.5	0.0	0.8	0.8
2	P7	3.3	0.2	0.1	0.1
2	P8	3.4	0.1	0.7	0.7
2	P9	3.0	0.3	0.8	0.8
2	P10	3.3	0.2	0.0	0.0
2	P11	3.1	0.0	2.6	2.6
2	P12	3.0	0.6	0.9	0.9
2	P13	3.3	0.1	0.9	0.9
2	P14	3.1	-0.1	0.6	0.6
2	P15	3.4	0.1	0.3	0.3
2	P16	3.3	0.6	1.3	1.3
2	P17	3.7	-0.3	-0.3	-0.3

2	P18	2.9	0.4	0.5	0.5
2	P19	3.0	0.5	0.8	0.8
2	P20	3.5	0.0	0.7	0.7
2	P21	3.2	0.1	0.4	0.4
2	P22	3.3	-0.1	-0.1	-0.1
2	P23	3.4	0.0	0.0	0.0
2	P24	3.6	0.2	0.8	0.8
3	P1	2.6	0.4	1.6	1.6
3	P2	2.9	-0.1	0.5	0.5
3	P3	2.9	-0.3	0.3	0.3
3	P4	2.9	-0.1	0.1	0.1
3	P5	2.8	-0.1	-0.1	-0.1
3	P6	2.6	0.2	0.0	0.0
3	P7	2.5	0.1	0.0	0.0
3	P8	2.6	0.0	0.2	0.2
3	P9	2.6	0.1	0.5	0.5
3	P10	2.6	0.2	0.2	0.2
3	P11	2.4	0.2	0.1	0.1
3	P12	2.5	0.3	0.0	0.0
3	P13	2.3	0.6	0.5	0.5
3	P14	2.6	0.0	0.1	0.1
3	P15	2.7	0.1	0.7	0.7
3	P16	2.8	0.3	-0.1	-0.1
3	P17	2.6	0.1	-0.1	-0.1
3	P18	2.8	-0.3	0.0	0.0
3	P19	2.8	-0.3	0.2	0.2
3	P20	3.1	-0.6	-0.1	-0.1
3	P21	2.6	0.0	-0.2	-0.2
3	P22	2.6	0.0	0.0	0.0
3	P23	3.0	-0.1	0.0	0.0
3	P24	3.2	-0.2	-0.5	-0.5
4	P1	3.0	0.1	1.9	1.9
4	P2	2.9	0.1	1.3	1.3
4	P3	3.4	-0.3	0.3	0.3
4	P4	3.3	-0.1	0.3	0.3
4	P5	3.3	-0.2	0.1	0.1
4	P6	2.5	0.4	0.4	0.4
4	P7	2.7	0.3	0.0	0.0
4	P8	2.8	0.2	0.0	0.0
4	P9	3.2	-0.3	-0.2	-0.2
4	P10	2.9	0.0	0.2	0.2
4	P11	3.1	0.0	-0.2	-0.2
4	P12	2.6	0.0	0.4	0.4
4	P13	3.3	-0.4	-0.4	-0.4
4	P14	3.2	-0.4	-0.6	-0.6
4	P15	3.2	-0.4	0.1	0.1
4	P16	2.9	0.2	0.4	0.4
4	P17	2.4	2.1	1.4	1.4
4	P18	2.7	0.3	0.2	0.2

4	P19	2.6	0.1	0.2	0.2
4	P20	2.6	0.7	0.7	0.7
4	P21	2.9	0.1	0.2	0.2
4	P22	2.7	0.0	0.0	0.0
4	P23	3.0	0.2	0.4	0.4
4	P24	3.2	-0.4	0.2	0.2
5	P1	3.2	-0.1	0.0	0.0
5	P2	2.9	-0.2	0.1	0.1
5	P3	3.3	-0.4	0.1	0.1
5	P4	3.1	0.0	0.1	0.1
5	P5	2.9	0.0	-0.1	-0.1
5	P6	3.1	0.1	0.4	0.4
5	P7	3.1	0.0	0.8	0.8
5	P8	3.3	0.1	0.4	0.4
5	P9	3.0	-0.1	0.3	0.3
5	P10	3.2	0.1	0.3	0.3
5	P11	2.7	0.5	0.4	0.4
5	P12	2.4	0.6	1.1	1.1
5	P13	3.0	0.1	0.6	0.6
5	P14	2.8	0.4	1.1	1.1
5	P15	3.0	0.1	0.5	0.5
5	P16	2.7	0.2	0.7	0.7
5	P17	3.0	-0.5	0.5	0.5
5	P18	3.1	-0.1	0.2	0.2
5	P19	3.0	-0.4	0.1	0.1
5	P20	2.8	0.0	1.4	1.4
5	P21	2.9	0.3	0.6	0.6
5	P22	2.9	0.2	0.3	0.3
5	P23	2.9	0.1	-0.1	-0.1
5	P24	2.9	0.3	0.2	0.2
6	P1	2.9	0.2	0.4	0.4
6	P2	2.8	0.1	0.6	0.6
6	P3	2.6	0.1	0.6	0.6
6	P4	2.8	0.0	0.1	0.1
6	P5	2.9	0.0	0.3	0.3
6	P6	2.8	0.0	0.1	0.1
6	P7	2.8	0.0	-0.2	-0.2
6	P8	2.8	0.0	-0.2	-0.2
6	P9	2.8	0.1	0.3	0.3
6	P10	2.9	0.4	0.3	0.3
6	P11	2.6	0.0	0.4	0.4
6	P12	2.7	0.2	0.3	0.3
6	P13	2.7	0.3	0.2	0.2
6	P14	2.5	0.2	0.1	0.1
6	P15	2.6	0.0	0.4	0.4
6	P16	2.8	-0.2	0.1	0.1
6	P17	2.5	0.4	0.6	0.6
6	P18	2.7	0.3	0.2	0.2
6	P19	2.4	0.3	0.1	0.1

6	P20	2.9	0.0	-0.3	-0.3
6	P21	3.1	-0.3	-0.3	-0.3
6	P22	3.0	-0.2	-0.2	-0.2
6	P23	2.9	0.0	-0.1	-0.1
6	P24	3.0	0.3	0.5	0.5
7	P1	3.4	-0.2	0.2	0.2
7	P2	3.5	-0.3	0.0	0.0
7	P3	3.2	-0.2	0.1	0.1
7	P4	3.3	-0.4	0.2	0.2
7	P5	3.0	0.1	0.1	0.1
7	P6	3.2	0.0	0.3	0.3
7	P7	2.9	0.1	0.4	0.4
7	P8	3.0	0.1	0.5	0.5
7	P9	3.1	0.0	0.3	0.3
7	P10	3.2	0.1	-0.1	-0.1
7	P11	3.2	0.0	0.3	0.3
7	P12	3.2	0.0	0.4	0.4
7	P13	3.4	0.1	0.5	0.5
7	P14	3.2	-0.3	0.3	0.3
7	P15	3.1	0.2	1.0	1.0
7	P16	3.3	-0.2	0.2	0.2
7	P17	3.4	0.1	1.1	1.1
7	P18	3.2	0.2	0.1	0.1
7	P19	2.9	0.0	0.4	0.4
7	P20	3.1	0.2	0.7	0.7
7	P21	3.1	0.1	0.0	0.0
7	P22	3.1	0.0	0.5	0.5
7	P23	3.0	0.1	0.0	0.0
7	P24	3.1	0.1	0.4	0.4
8	P1	3.2	0.0	0.2	0.2
8	P2	2.7	0.1	0.6	0.6
8	P3	3.1	0.0	0.1	0.1
8	P4	3.0	0.2	0.4	0.4
8	P5	3.2	-0.1	0.1	0.1
8	P6	3.1	-0.2	0.0	0.0
8	P7	2.8	0.3	-0.1	-0.1
8	P8	3.0	-0.1	0.0	0.0
8	P9	2.9	-0.2	0.2	0.2
8	P10	2.9	0.0	0.5	0.5
8	P11	3.1	-0.4	0.4	0.4
8	P12	2.8	0.3	0.2	0.2
8	P13	3.0	0.3	0.1	0.1
8	P14	2.7	0.3	0.6	0.6
8	P15	2.9	0.1	0.3	0.3
8	P16	3.0	0.4	0.1	0.1
8	P17	3.1	0.2	-0.4	-0.4
8	P18	3.0	0.4	0.0	0.0
8	P19	2.8	-0.3	0.3	0.3
8	P20	3.1	0.0	0.0	0.0

8	P21	3.3	0.2	-0.1	-0.1
8	P22	3.0	0.2	0.3	0.3
8	P23	3.0	0.3	0.1	0.1
8	P24	3.1	0.1	0.1	0.1

DATA Continued**GAS TIGHT**

	mOhm values	Actual	Delta
Board	Position	Initial	After Humidity
1	P1	3.5	-0.2
1	P2	4.2	-0.6
1	P3	3.5	-0.4
1	P4	3.3	-0.2
1	P5	3.3	0.1
1	P6	3.6	-0.2
1	P7	3.2	-0.3
1	P8	3.4	0.0
1	P9	3.0	0.2
1	P10	3.3	0.4
1	P11	3.5	-0.3
1	P12	3.5	-0.7
1	P13	3.2	0.2
1	P14	3.6	-0.2
1	P15	3.6	0.1
1	P16	3.3	0.7
1	P17	3.1	-0.1
1	P18	3.2	-0.3
1	P19	3.5	-0.4
1	P20	3.4	-0.3
1	P21	3.8	-0.8
1	P22	3.8	0.0
1	P23	3.3	0.0
1	P24	3.5	0.1
2	P1	3.3	0.4
2	P2	3.3	-0.1
2	P3	3.3	0.0
2	P4	3.5	0.1
2	P5	3.6	-0.3
2	P6	3.7	-0.2
2	P7	3.3	0.6
2	P8	3.4	0.3
2	P9	3.0	0.7
2	P10	3.2	-0.1
2	P11	3.8	0.1
2	P12	3.5	-0.3
2	P13	3.6	-0.2
2	P14	3.3	0.0
2	P15	3.5	0.1
2	P16	3.6	0.3
2	P17	3.3	0.0
2	P18	3.5	0.0
2	P19	3.0	0.1
2	P20	3.6	0.0

2	P21	3.8	-0.5
2	P22	3.7	-0.1
2	P23	3.6	-0.3
2	P24	3.7	-0.3
3	P1	3.8	-0.3
3	P2	3.2	0.4
3	P3	3.4	0.6
3	P4	3.0	0.5
3	P5	3.5	-0.5
3	P6	3.8	0.3
3	P7	3.3	0.6
3	P8	3.2	1.0
3	P9	3.1	0.8
3	P10	3.5	0.1
3	P11	3.3	-0.4
3	P12	3.4	-0.6
3	P13	3.2	0.1
3	P14	3.3	-0.2
3	P15	3.4	-0.4
3	P16	3.4	-0.4
3	P17	2.8	0.1
3	P18	3.9	-0.1
3	P19	3.5	-0.3
3	P20	3.3	0.1
3	P21	3.0	0.2
3	P22	3.8	-0.7
3	P23	3.3	0.3
3	P24	3.4	0.0
4	P1	3.4	0.0
4	P2	3.4	0.2
4	P3	3.2	0.6
4	P4	3.3	0.5
4	P5	2.9	0.5
4	P6	3.4	0.5
4	P7	3.0	0.5
4	P8	3.2	0.8
4	P9	3.1	0.4
4	P10	3.5	-0.1
4	P11	3.2	-0.1
4	P12	3.0	0.4
4	P13	3.3	-0.1
4	P14	3.5	-0.4
4	P15	3.1	0.0
4	P16	3.2	-0.5
4	P17	3.0	0.3
4	P18	3.3	0.0
4	P19	2.8	0.6
4	P20	3.4	0.0
4	P21	3.0	0.3

4	P22	3.0	0.8
4	P23	3.3	-0.1
4	P24	3.2	-0.1
5	P1	3.4	0.1
5	P2	3.1	0.3
5	P3	2.9	0.1
5	P4	3.4	-0.1
5	P5	3.3	0.1
5	P6	3.4	0.3
5	P7	3.4	-0.6
5	P8	3.5	-0.3
5	P9	3.3	0.0
5	P10	3.2	0.4
5	P11	2.8	0.0
5	P12	3.6	-0.8
5	P13	3.3	-0.5
5	P14	3.4	-0.3
5	P15	3.5	-0.3
5	P16	3.8	-0.9
5	P17	3.6	-0.1
5	P18	3.4	-0.1
5	P19	3.1	-0.4
5	P20	3.8	-0.4
5	P21	3.7	-0.3
5	P22	3.8	-0.4
5	P23	3.5	0.2
5	P24	4.0	-0.4
6	P1	3.6	0.0
6	P2	3.7	-0.5
6	P3	3.6	-0.6
6	P4	3.5	0.0
6	P5	3.5	-0.3
6	P6	3.4	0.3
6	P7	3.3	2.5
6	P8	3.0	0.1
6	P9	3.4	0.2
6	P10	3.6	-0.3
6	P11	3.4	1.0
6	P12	3.3	0.3
6	P13	3.2	0.2
6	P14	3.2	0.8
6	P15	3.2	1.5
6	P16	3.2	0.2
6	P17	3.2	0.8
6	P18	3.6	-0.3
6	P19	3.6	-0.1
6	P20	3.4	2.3
6	P21	3.3	0.4
6	P22	3.8	3.4

6	P23	3.2	0.6
6	P24	3.7	0.1
7	P1	3.6	0.0
7	P2	3.3	0.3
7	P3	3.4	-0.1
7	P4	3.5	0.3
7	P5	3.4	-0.2
7	P6	3.6	0.0
7	P7	3.6	-0.7
7	P8	3.6	-0.6
7	P9	3.1	-0.3
7	P10	3.3	0.1
7	P11	3.1	-0.2
7	P12	2.7	0.3
7	P13	3.3	-0.3
7	P14	3.2	0.0
7	P15	3.4	0.2
7	P16	3.2	-0.2
7	P17	3.2	-0.4
7	P18	3.2	0.5
7	P19	3.0	0.2
7	P20	3.4	-0.4
7	P21	3.5	-0.2
7	P22	3.3	0.4
7	P23	3.3	0.3
7	P24	3.6	0.2
8	P1	3.7	-0.1
8	P2	3.5	0.2
8	P3	3.0	0.7
8	P4	3.3	0.4
8	P5	3.8	-0.2
8	P6	3.7	0.7
8	P7	3.3	1.1
8	P8	3.6	0.2
8	P9	3.6	0.2
8	P10	3.5	0.5
8	P11	3.4	0.4
8	P12	3.5	0.2
8	P13	3.4	-0.3
8	P14	3.3	0.1
8	P15	3.6	0.0
8	P16	3.6	0.4
8	P17	3.5	-0.4
8	P18	3.5	-0.2
8	P19	3.1	0.5
8	P20	3.4	-0.4
8	P21	3.2	0.4
8	P22	3.1	0.8
8	P23	3.5	-0.2

Tracking Code: TC1032--3493_Report_Rev_1	Part #: MEC2-50-02-L-DV-WT\Mating Card
Part description: MEC2	

8	P24	3.1	0.3
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EQUIPMENT AND CALIBRATION SCHEDULES**Equipment #:** HZ-MO-03**Description:** Micro-ohmmeter**Manufacturer:** Keithley**Model:** 580**Serial #:** 297288**Accuracy:** Last Cal: 2010-8-06, Next Cal: 2011-8-05**Equipment #:** HZ-TCT-01**Description:** Normal force analyzer**Manufacturer:** Mecmesin Multitester**Model:** Mecmesin Multitester 2.5-i**Serial #:** 08-1049-04**Accuracy:** Last Cal: 2010-4-28, Next Cal: 2011-4-27**Equipment #:** HZ-OV-01**Description:** Oven**Manufacturer:** Huida**Model:** CS101-1E**Serial #:** CS101-1E-B**Accuracy:** Last Cal: 2009-12-15, Next Cal: 2010-12-14**Equipment #:** HZ-THC-01**Description:** Humidity transmitter**Manufacturer:** Thermtron**Model:** HMM30C**Serial #:** D0240037**Accuracy:** Last Cal: 2010-3-3, Next Cal: 2011-3-2**Equipment #:** HZ-OGP-01**Description:** Video measurement system**Manufacturer:** OGP**Model:** SMARTSCOPE FLASH 200**Serial #:** SVW2003632**Accuracy:** Last Cal: 2010-6-10, Next Cal: 2011-6-9**Equipment #:** HZ-MO-01**Description:** Micro-ohmmeter**Manufacturer:** Keithley**Model:** 2700**Serial #:** 1199807**Accuracy:** Last Cal: 2010-4-28, Next Cal: 2011-4-27

EQUIPMENT AND CALIBRATION SCHEDULES**Equipment #:** HZ-PS-01**Description:** Power Supply**Manufacturer:** Agilent**Model:** 6031A**Serial #:** MY41000982**Accuracy:** Last Cal: 2010-4-28, Next Cal: 2011-4-27