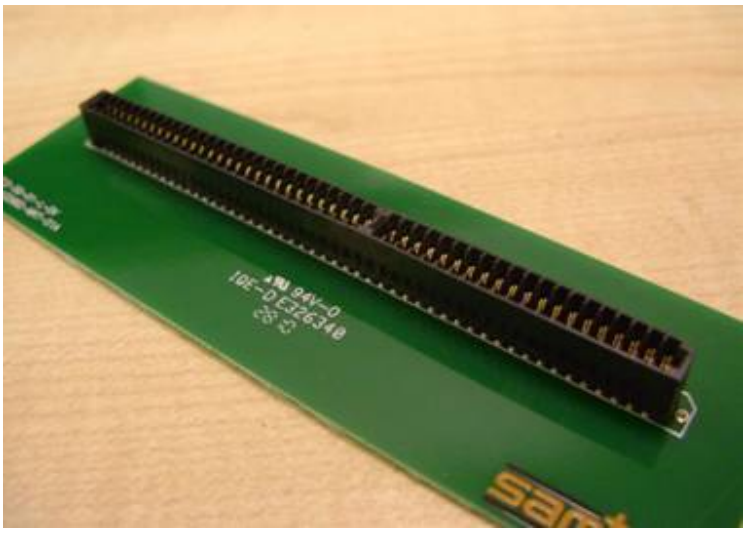
Project Number: Design Qualification Test Report	Tracking Code: TC1046--3528_Report_Rev_1		
Requested by: Leo Lee	Date: 12/01/2010	Product Rev: 0	
Part #: MEC2-50-01-L-DV\Mating Card	Lot #:1	Tech: Kason He	Eng: Vico Zhao
Part description: MEC2		Qty to test: 50	
Test Start: 11/15/2010	Test Completed: 12/07/2010		



Design Qualification Test Report

MEC2

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

CERTIFICATION

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

SCOPE

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

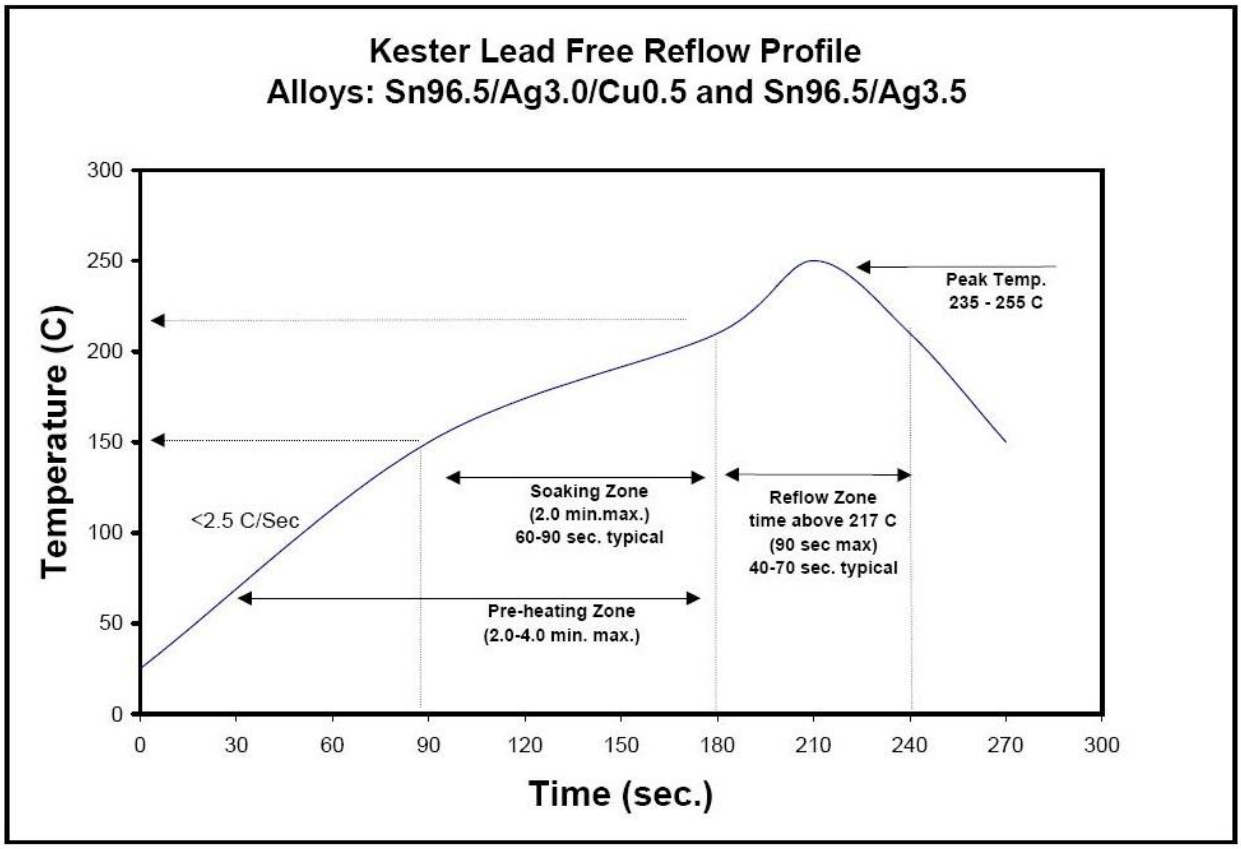
APPLICABLE DOCUMENTS

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-102516-TST\ PCB-102682-TST

TYPICAL OVEN PROFILE (Soldering Parts to Test Boards)



FLOWCHARTS

Mating/Unmating/Gaps

TEST STEP	GROUP A1 10 Boards (largest position submitted) 1.41mm thick edge card (Min) 1.73mm thick edge card (Max)	GROUP A2 6 Boards (middle position submitted) 1.57mm thick edge card (Min)	GROUP A3 10 Boards (smallest position submitted) 1.41mm thick edge card (Min) 1.73mm 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)		
20	Mating / Unmating		

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 1.41mm thick edge card (Min)	GROUP A2 192 Points 100 Cycles 1.73mm 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

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.

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.

LLCR:

1) EIA-364-23, *Low Level Contact Resistance Test Procedure for Electrical Connectors and Sockets.*
2) A computer program, *LLCR 221.exe*, ensures repeatability for data acquisition.
3) The following guidelines are used to categorize the changes in LLCR as a result from stressing
    a. <= +5.0 mOhms: ---------- Stable
    b. +5.1 to +10.0 mOhms:---------- Minor
    c. +10.1 to +15.0 mOhms: ---------- Acceptable
    d. +15.1 to +50.0 mOhms: ---------- Marginal
    e. +50.1 to +2000 mOhms: ---------- Unstable
    f. >+2000 mOhms:---------- Open Failure

RESULTS

Contact Gaps

MEC2-50 pos

1.41 mm thick edge card (Min)

- **Initial**
  - **Min ---------- 0.4431 mm**
  - **Max ---------- 0.5698 mm**
- **After 100 Cycles**
  - **Min ---------- 0.5782 mm**
  - **Max ---------- 0.7967 mm**
- **After Thermal**
  - **Min ---------- 0.7060 mm**
  - **Max ---------- 0.9429 mm**

1.73 mm thick edge card (Max)

- **Initial**
  - **Min ---------- 0.4417 mm**
  - **Max ---------- 0.5699 mm**
- **After 100 Cycles**
  - **Min ---------- 0.7573 mm**
  - **Max ---------- 0.9894 mm**
- **After Thermal**
  - **Min ---------- 0.9154 mm**
  - **Max ---------- 1.0961 mm**

MEC2-20 pos 1.57 mm thick edge card (Mid)

- **Initial**
  - **Min ---------- 0.4167 mm**
  - **Max ---------- 0.5656 mm**
- **After 100 Cycles**
  - **Min ---------- 0.6720 mm**
  - **Max ---------- 0.7975 mm**

MEC2-08 pos

1.41 mm thick edge card (Min)

- **Initial**
  - **Min ---------- 0.4433 mm**
  - **Max ---------- 0.5432 mm**
- **After 100 Cycles**
  - **Min ---------- 0.6588 mm**
  - **Max ---------- 0.7808 mm**

1.73 mm thick edge card (Max)

- **Initial**
  - **Min ---------- 0.4574 mm**
  - **Max ---------- 0.5718 mm**
- **After 100 Cycles**
  - **Min ---------- 0.8059 mm**
  - **Max ---------- 0.8844 mm**

RESULTS Continued

Mating – Unmating Forces
MEC2-50 pos
1.41 mm thick edge card (Min)

- **Initial**
  - **Mating**
    - **Min ---------- 7.92 Lbs**
    - **Max---------- 9.75 Lbs**
  - **Unmating**
    - **Min ---------- 3.37 Lbs**
    - **Max---------- 4.32 Lbs**
- **After 25 Cycles**
  - **Mating**
    - **Min ---------- 7.67 Lbs**
    - **Max---------- 8.93 Lbs**
  - **Unmating**
    - **Min ---------- 3.51 Lbs**
    - **Max---------- 4.19 Lbs**
- **After 50 Cycles**
  - **Mating**
    - **Min ---------- 7.06 Lbs**
    - **Max---------- 8.78 Lbs**
  - **Unmating**
    - **Min ---------- 3.40 Lbs**
    - **Max---------- 4.12 Lbs**
- **After 75 Cycles**
  - **Mating**
    - **Min ---------- 6.73 Lbs**
    - **Max---------- 8.58 Lbs**
  - **Unmating**
    - **Min ---------- 3.31 Lbs**
    - **Max---------- 4.04 Lbs**
- **After 100 Cycles**
  - **Mating**
    - **Min ---------- 6.04 Lbs**
    - **Max---------- 8.73 Lbs**
  - **Unmating**
    - **Min ---------- 3.11 Lbs**
    - **Max---------- 4.01 Lbs**
- **Thermal**
  - **Mating**
    - **Min ---------- 5.87 Lbs**
    - **Max---------- 6.99 Lbs**
  - **Unmating**
    - **Min ---------- 2.98 Lbs**
    - **Max---------- 3.75 Lbs**
- **Humidity**
  - **Mating**
    - **Min ---------- 4.96 Lbs**
    - **Max---------- 6.09 Lbs**
  - **Unmating**
    - **Min ---------- 2.69 Lbs**
    - **Max---------- 3.26 Lbs**

RESULTS Continued

Mating – Unmating Forces
MEC2-50 pos
1.73 mm thick edge card (Max)

- **Initial**
  - **Mating**
    - **Min ----------11.29 Lbs**
    - **Max----------13.78 Lbs**
  - **Unmating**
    - **Min ---------- 4.59 Lbs**
    - **Max---------- 6.02 Lbs**
- **After 25 Cycles**
  - **Mating**
    - **Min ----------11.25 Lbs**
    - **Max----------13.67 Lbs**
  - **Unmating**
    - **Min ---------- 4.59 Lbs**
    - **Max---------- 5.73 Lbs**
- **After 50 Cycles**
  - **Mating**
    - **Min ---------- 9.79 Lbs**
    - **Max----------13.56 Lbs**
  - **Unmating**
    - **Min ---------- 4.59 Lbs**
    - **Max---------- 5.64 Lbs**
- **After 75 Cycles**
  - **Mating**
    - **Min ----------10.01 Lbs**
    - **Max----------13.43 Lbs**
  - **Unmating**
    - **Min ---------- 4.63 Lbs**
    - **Max---------- 5.29 Lbs**
- **After 100 Cycles**
  - **Mating**
    - **Min ----------10.25 Lbs**
    - **Max----------13.01 Lbs**
  - **Unmating**
    - **Min ---------- 4.59 Lbs**
    - **Max---------- 5.23 Lbs**
- **Thermal**
  - **Mating**
    - **Min ---------- 7.70 Lbs**
    - **Max----------10.01 Lbs**
  - **Unmating**
    - **Min ---------- 3.90 Lbs**
    - **Max---------- 4.63 Lbs**
- **Humidity**
  - **Mating**
    - **Min ---------- 7.12 Lbs**
    - **Max---------- 8.20 Lbs**
  - **Unmating**
    - **Min ---------- 3.44 Lbs**
    - **Max---------- 4.63 Lbs**

RESULTS Continued

Mating – Unmating Forces
MEC2-20 pos
1.57 mm thick edge card (Mid)

- **Initial**
  - **Mating**
    - **Min ---------- 4.50 Lbs**
    - **Max---------- 5.18 Lbs**
  - **Unmating**
    - **Min ---------- 1.98 Lbs**
    - **Max---------- 2.38 Lbs**
- **After 25 Cycles**
  - **Mating**
    - **Min ---------- 4.41 Lbs**
    - **Max---------- 5.07 Lbs**
  - **Unmating**
    - **Min ---------- 1.87 Lbs**
    - **Max---------- 2.21 Lbs**
- **After 50 Cycles**
  - **Mating**
    - **Min ---------- 4.15 Lbs**
    - **Max---------- 5.03 Lbs**
  - **Unmating**
    - **Min ---------- 1.65 Lbs**
    - **Max---------- 2.07 Lbs**
- **After 75 Cycles**
  - **Mating**
    - **Min ---------- 3.97 Lbs**
    - **Max---------- 4.63 Lbs**
  - **Unmating**
    - **Min ---------- 1.68 Lbs**
    - **Max---------- 1.98 Lbs**
- **After 100 Cycles**
  - **Mating**
    - **Min ---------- 3.84 Lbs**
    - **Max---------- 4.48 Lbs**
  - **Unmating**
    - **Min ---------- 1.68 Lbs**
    - **Max---------- 1.81 Lbs**

RESULTS Continued

Mating – Unmating Forces
MEC2-08 pos
1.41 mm thick edge card (Min)

- **Initial**
  - **Mating**
    - **Min ---------- 1.06 Lbs**
    - **Max---------- 1.50 Lbs**
  - **Unmating**
    - **Min ---------- 0.55 Lbs**
    - **Max---------- 0.84 Lbs**
- **After 25 Cycles**
  - **Mating**
    - **Min ---------- 0.95 Lbs**
    - **Max---------- 1.48 Lbs**
  - **Unmating**
    - **Min ---------- 0.55 Lbs**
    - **Max---------- 0.77 Lbs**
- **After 50 Cycles**
  - **Mating**
    - **Min ---------- 0.93 Lbs**
    - **Max---------- 1.10 Lbs**
  - **Unmating**
    - **Min ---------- 0.55 Lbs**
    - **Max---------- 0.71 Lbs**
- **After 75 Cycles**
  - **Mating**
    - **Min ---------- 0.93 Lbs**
    - **Max---------- 1.21 Lbs**
  - **Unmating**
    - **Min ---------- 0.49 Lbs**
    - **Max---------- 0.64 Lbs**
- **After 100 Cycles**
  - **Mating**
    - **Min ---------- 0.88 Lbs**
    - **Max---------- 1.35 Lbs**
  - **Unmating**
    - **Min ---------- 0.49 Lbs**
    - **Max---------- 0.62 Lbs**

RESULTS Continued

Mating – Unmating Forces
MEC2-08 pos
1.73 mm thick edge card (Max)

- **Initial**
  - **Mating**
    - **Min ---------- 1.74 Lbs**
    - **Max---------- 2.09 Lbs**
  - **Unmating**
    - **Min ---------- 0.93 Lbs**
    - **Max---------- 1.26 Lbs**
- **After 25 Cycles**
  - **Mating**
    - **Min ---------- 1.50 Lbs**
    - **Max---------- 2.07 Lbs**
  - **Unmating**
    - **Min ---------- 0.86 Lbs**
    - **Max---------- 1.23 Lbs**
- **After 50 Cycles**
  - **Mating**
    - **Min ---------- 1.50 Lbs**
    - **Max---------- 1.96 Lbs**
  - **Unmating**
    - **Min ---------- 0.77 Lbs**
    - **Max---------- 1.08 Lbs**
- **After 75 Cycles**
  - **Mating**
    - **Min ---------- 1.46 Lbs**
    - **Max---------- 1.81 Lbs**
  - **Unmating**
    - **Min ---------- 0.75 Lbs**
    - **Max---------- 0.99 Lbs**
- **After 100 Cycles**
  - **Mating**
    - **Min ---------- 1.46 Lbs**
    - **Max---------- 1.76 Lbs**
  - **Unmating**
    - **Min ---------- 0.68 Lbs**
    - **Max---------- 0.84 Lbs**

RESULTS Continued

LLCR Durability (192 LLCR test points)
MEC2-50 pos 1.41 mm thick edge card (Min)

- **Initial ---------- 7.1 mOhms Max**
- **Durability, 100 Cycles**
  - **<= +5.0 mOhms ---------- 192 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 0 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
- **Thermal**
  - **<= +5.0 mOhms ---------- 192 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 0 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
  -
- **Humidity**
  - **<= +5.0 mOhms ---------- 188 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 4 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**

LLCR Durability (192 LLCR test points)
MEC2-50 pos 1.73 mm thick edge card (Max)

- **Initial ---------- 4.7mOhms Max**
- **Durability, 100 Cycles**
  - **<= +5.0 mOhms ---------- 192 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 0 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
- **Thermal**
  - **<= +5.0 mOhms ---------- 192 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 0 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
  -
- **Humidity**
  - **<= +5.0 mOhms ---------- 186 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 6 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

CONTACT GAPS:

MEC2-50 pos

1.41 mm thick edge card (Min)

Initial		After 100 Cycles		After Thermal	
Units:	mm	Units:	mm	Units:	mm
Minimum	0.4431	*Minimum*	0.5782	*Minimum*	0.7060
Maximum	0.5698	*Maximum*	0.7967	*Maximum*	0.9429
Average	0.5093	*Average*	0.6960	*Average*	0.8173
St. Dev.	0.0330	*St. Dev.*	0.0435	*St. Dev.*	0.0432
Count	490	*Count*	490	*Count*	490

1.73 mm thick edge card (Max)

Initial		After 100 Cycles		After Thermal	
Units:	mm	Units:	mm	Units:	mm
Minimum	0.4417	*Minimum*	0.7573	*Minimum*	0.9154
Maximum	0.5699	*Maximum*	0.9894	*Maximum*	1.0961
Average	0.5117	*Average*	0.8322	*Average*	1.0088
St. Dev.	0.0342	*St. Dev.*	0.0327	*St. Dev.*	0.0407
Count	490	*Count*	490	*Count*	490

MEC2-20 pos

1.57 mm thick edge card (Mid)

Initial		After 100 Cycles	
Units:	mm	Units:	mm
Minimum	0.4167	*Minimum*	0.6720
Maximum	0.5656	*Maximum*	0.7975
Average	0.4925	*Average*	0.7313
St. Dev.	0.0377	*St. Dev.*	0.0268
Count	114	*Count*	114

MEC2-08 pos

1.41 mm thick edge card (Min)

Initial		After 100 Cycles	
Units:	mm	Units:	mm
Minimum	0.4433	*Minimum*	0.6588
Maximum	0.5432	*Maximum*	0.7808
Average	0.4980	*Average*	0.7177
St. Dev.	0.0230	*St. Dev.*	0.0354
Count	70	*Count*	70

1.73 mm thick edge card (Max)

Initial		After 100 Cycles	
Units:	mm	Units:	mm
Minimum	0.4574	*Minimum*	0.8059
Maximum	0.5718	*Maximum*	0.8844
Average	0.5099	*Average*	0.8459
St. Dev.	0.0312	*St. Dev.*	0.0185
Count	70	*Count*	70

DATA SUMMARIES Continued

MATING/UNMATING

MEC2-50 pos

1.41 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	35.23	7.92	15.01	3.37	34.54	7.76	15.60	3.51
Maximum	43.37	9.75	19.23	4.32	39.74	8.93	18.64	4.19
Average	40.58	**9.12**	17.34	**3.90**	36.67	**8.24**	17.06	**3.83**
	After 50 Cycles				After 75 Cycles			
	Mating		**Unmating**		**Mating**		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	31.40	7.06	15.11	3.40	29.93	6.73	14.72	3.31
Maximum	39.05	8.78	18.35	4.12	38.17	8.58	17.96	4.04
Average	35.43	**7.96**	16.48	**3.70**	34.47	**7.75**	16.04	**3.61**
	After 100 Cycles				After Thermals			
	Mating		**Unmating**		**Mating**		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	26.89	6.04	13.84	3.11	26.10	5.87	13.25	2.98
Maximum	38.86	8.73	17.86	4.01	31.10	6.99	16.68	3.75
Average	33.16	**7.45**	15.65	**3.52**	28.74	**6.46**	15.38	**3.46**
	After Humidity							
	Mating		**Unmating**					
	newtons	Force (Lbs)	newtons	Force (Lbs)				
Minimum	22.08	4.96	11.97	2.69				
Maximum	27.08	6.09	14.52	3.26				
Average	24.33	**5.47**	13.10	**2.94**				

DATA SUMMARIES Continued

MATING/UNMATING

MEC2-50 pos

1.73 mm thick edge card (Max)

	Initial				After 25 Cycles			
	Mating		**Unmating**		**Mating**		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	50.24	11.29	20.41	4.59	50.04	11.25	20.41	4.59
Maximum	61.33	13.78	26.79	6.02	60.84	13.67	25.51	5.73
Average	55.91	**12.56**	23.67	**5.32**	54.46	**12.24**	22.89	**5.14**
	After 50 Cycles				After 75 Cycles			
	Mating		**Unmating**		**Mating**		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	43.57	9.79	20.41	4.59	44.55	10.01	20.61	4.63
Maximum	60.35	13.56	25.12	5.64	59.76	13.43	23.55	5.29
Average	53.11	**11.94**	22.42	**5.04**	50.99	**11.46**	21.91	**4.92**
	After 100 Cycles				After Thermals			
	Mating		**Unmating**		**Mating**		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	45.63	10.25	20.41	4.59	34.24	7.70	17.37	3.90
Maximum	57.89	13.01	23.26	5.23	44.55	10.01	20.61	4.63
Average	49.89	**11.21**	21.68	**4.87**	37.28	**8.38**	18.87	**4.24**

	After Humidity			
	Mating		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	31.69	7.12	15.31	3.44
Maximum	36.50	8.20	20.61	4.63
Average	34.02	**7.64**	17.88	**4.02**

DATA SUMMARIES Continued

MATING/UNMATING

MEC2-20 pos
1.57 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	20.02	4.50	8.83	1.98	19.62	4.41	8.34	1.87
Maximum	23.06	5.18	10.60	2.38	22.57	5.07	9.81	2.21
Average	21.86	**4.91**	9.91	**2.23**	21.21	**4.77**	9.27	**2.08**
	After 50 Cycles				After 75 Cycles			
	Mating		**Unmating**		**Mating**		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	18.45	4.15	7.36	1.65	17.66	3.97	7.46	1.68
Maximum	22.37	5.03	9.22	2.07	20.61	4.63	8.83	1.98
Average	20.15	**4.53**	8.14	**1.83**	19.28	**4.33**	8.10	**1.82**

	After 100 Cycles			
	Mating		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	17.07	3.84	7.46	1.68
Maximum	19.92	4.48	8.05	1.81
Average	18.07	**4.06**	7.75	**1.74**

DATA SUMMARIES Continued

MATING/UNMATING

MEC2-08 pos

1.41 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	4.71	1.06	2.45	0.55	4.22	0.95	2.45	0.55
Maximum	6.67	1.50	3.73	0.84	6.57	1.48	3.43	0.77
Average	5.24	**1.18**	3.01	**0.68**	4.92	**1.10**	2.92	**0.66**
	After 50 Cycles				After 75 Cycles			
	Mating		**Unmating**		**Mating**		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	4.12	0.93	2.45	0.55	4.12	0.93	2.16	0.49
Maximum	4.91	1.10	3.14	0.71	5.40	1.21	2.85	0.64
Average	4.59	**1.03**	2.81	**0.63**	4.54	**1.02**	2.43	**0.55**

	After 100 Cycles			
	Mating		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	3.92	0.88	2.16	0.49
Maximum	5.99	1.35	2.75	0.62
Average	4.62	**1.04**	2.41	**0.54**

DATA SUMMARIES Continued

MATING/UNMATING

MEC2-08 pos

1.73 mm thick edge card (Max)

	Initial				After 25 Cycles			
	Mating		**Unmating**		**Mating**		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	7.75	1.74	4.12	0.93	6.67	1.50	3.83	0.86
Maximum	9.32	2.09	5.59	1.26	9.22	2.07	5.49	1.23
Average	8.40	**1.89**	5.01	**1.13**	8.16	**1.83**	4.44	**1.00**

	After 50 Cycles				After 75 Cycles			
	Mating		**Unmating**		**Mating**		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	6.67	1.50	3.43	0.77	6.48	1.46	3.34	0.75
Maximum	8.73	1.96	4.81	1.08	8.05	1.81	4.42	0.99
Average	7.66	**1.72**	4.05	**0.91**	7.32	**1.64**	3.67	**0.82**

	After 100 Cycles			
	Mating		**Unmating**	
	newtons	Force (Lbs)	newtons	Force (Lbs)
Minimum	6.48	1.46	3.04	0.68
Maximum	7.85	1.76	3.73	0.84
Average	7.03	**1.58**	3.34	**0.75**

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. <= +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 1.41 mm thick edge card (Min)

Date	Nov. 15 2010	Nov. 15 2010	Nov. 26 2010	Dec. 7 2010
Room Temp C	23	23	23	23
RH	52%	52%	46%	45%
Name	Peter Chen	Peter Chen	Peter Chen	Peter Chen
mOhm values	**Actual Initial**	**Delta 100 Cycles**	**Delta Thermal**	**Delta Humidity**
Average	4.1	0.2	0.8	1.9
St. Dev.	0.4	0.6	0.8	1.3
Min	3.4	-2.1	-2.4	-0.7
Max	7.1	4.5	4.3	5.6
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	188	4	0	0	0	0

DATA SUMMARIES Continued

MEC2-50 pos 1.73 mm thick edge card (Max)

Date	Nov. 15 2010	Nov. 15 2010	Nov. 26 2010	Dec. 7 2010
Room Temp C	23	23	23	23
RH	52%	52%	46%	45%
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	0.3	1.5
St. Dev.	0.2	0.2	0.3	1.4
Min	2.6	-0.2	-0.3	-0.2
Max	4.7	2.0	3.0	6.6
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	186	6	0	0	0	0

DATA

CONTACT GAPS:

MEC2-50 pos 1.41 mm thick edge card (Min)

Initial

Units: mm

Pos.#	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
1	0.5193	0.4787	0.4528	0.4448	0.4805	0.4726	0.5528	0.4495	0.4478	0.4500
2	0.4897	0.4808	0.4897	0.4827	0.4723	0.4783	0.4875	0.4831	0.4888	0.4859
3	0.4520	0.4484	0.4505	0.4480	0.4456	0.4519	0.5216	0.4487	0.4566	0.4553
4	0.5214	0.5112	0.5118	0.5118	0.5185	0.5233	0.5299	0.5160	0.5197	0.5234
5	0.4836	0.4745	0.4709	0.4746	0.4784	0.4791	0.4888	0.4774	0.4744	0.4883
6	0.5512	0.5320	0.5353	0.5453	0.5423	0.5427	0.5574	0.5595	0.5526	0.5538
7	0.5009	0.4901	0.4835	0.4997	0.4958	0.5011	0.5117	0.5232	0.5070	0.5045
8	0.5268	0.5434	0.5418	0.5101	0.5413	0.5591	0.5681	0.5600	0.5609	0.5446
9	0.5138	0.5024	0.4792	0.5104	0.5104	0.5107	0.5221	0.5205	0.5107	0.5198
10	0.5498	0.5541	0.5364	0.5521	0.5406	0.5140	0.5122	0.5174	0.5499	0.5462
11	0.5161	0.5039	0.4896	0.5047	0.5212	0.5171	0.5307	0.5279	0.5152	0.5159
12	0.5538	0.5414	0.5279	0.5522	0.5520	0.5561	0.5227	0.5205	0.5548	0.5473
13	0.4917	0.4746	0.4780	0.4926	0.4999	0.4997	0.5176	0.5128	0.5014	0.4870
14	0.5111	0.5489	0.5526	0.5575	0.5579	0.5188	0.5223	0.5122	0.5474	0.5626
15	0.5040	0.4866	0.5028	0.5064	0.5022	0.5120	0.5132	0.5397	0.5065	0.5161
16	0.5492	0.5434	0.5536	0.5549	0.5438	0.5407	0.5470	0.5113	0.5420	0.5558
17	0.4979	0.4886	0.4901	0.5040	0.5063	0.5087	0.5083	0.5264	0.5079	0.4989
18	0.5582	0.5507	0.5460	0.5504	0.5188	0.5591	0.5623	0.5284	0.5147	0.5537
19	0.5048	0.5090	0.4918	0.5157	0.5344	0.5164	0.5221	0.5261	0.5258	0.4985
20	0.5217	0.5504	0.5412	0.5571	0.5183	0.5596	0.5227	0.5218	0.5171	0.5492
21	0.5091	0.5070	0.4874	0.5098	0.5346	0.5154	0.5181	0.5389	0.5313	0.4926
22	0.5284	0.5159	0.5448	0.5243	0.5205	0.5111	0.5147	0.5271	0.5278	0.5548
23	0.5031	0.4988	0.4791	0.4989	0.5057	0.5040	0.5094	0.5204	0.5138	0.4840
24	0.5531	0.5391	0.5239	0.5463	0.5575	0.5512	0.5494	0.5585	0.5555	0.5334
25	0.4981	0.4922	0.4762	0.4852	0.5571	0.4943	0.4910	0.5041	0.4898	0.4768
26	0.5395	0.5318	0.5187	0.5263	0.5501	0.5401	0.5295	0.5452	0.5322	0.5206
27	0.4613	0.4510	0.4454	0.4481	0.4655	0.4576	0.4477	0.4530	0.4490	0.4527
28	0.5111	0.5070	0.5053	0.5053	0.5298	0.5107	0.5065	0.5184	0.4988	0.5065
29	0.4724	0.4662	0.4749	0.4659	0.4772	0.4647	0.4618	0.4726	0.4658	0.4732
30	0.4590	0.4458	0.4643	0.4604	0.4499	0.4513	0.4551	0.4638	0.4499	0.4694
31	0.5034	0.5036	0.5020	0.5086	0.4859	0.5001	0.5086	0.5397	0.4992	0.5035
32	0.4558	0.4512	0.4516	0.4589	0.4790	0.4493	0.4552	0.4632	0.4431	0.4487
33	0.5405	0.5347	0.5405	0.5299	0.5203	0.5390	0.5421	0.5413	0.5366	0.5492
34	0.4861	0.4755	0.4831	0.4742	0.4652	0.4809	0.4847	0.4811	0.4760	0.4904
35	0.5591	0.5464	0.5385	0.5466	0.5360	0.5522	0.5698	0.5559	0.5524	0.5621
36	0.4959	0.4901	0.4895	0.4881	0.4753	0.4878	0.4960	0.4975	0.4878	0.4946
37	0.5468	0.5426	0.5401	0.5333	0.5286	0.5397	0.5477	0.5466	0.5409	0.5484
38	0.5015	0.4911	0.4835	0.4914	0.4765	0.4917	0.4973	0.5020	0.4910	0.4999
39	0.5631	0.5570	0.5417	0.5443	0.5396	0.5507	0.5492	0.5621	0.5557	0.5576
40	0.4967	0.4890	0.4740	0.4799	0.4690	0.4914	0.4827	0.4934	0.4867	0.4905
41	0.5676	0.5582	0.5436	0.5471	0.5416	0.5606	0.5558	0.5615	0.5540	0.5609
42	0.5009	0.4918	0.4724	0.4836	0.4706	0.4948	0.4900	0.4955	0.4760	0.4968
43	0.5569	0.5462	0.5394	0.5359	0.5375	0.5632	0.5561	0.5493	0.5421	0.5588

44	0.4900	0.4901	0.4695	0.4816	0.4772	0.4943	0.4856	0.4861	0.5570	0.4958
45	0.5499	0.5393	0.5196	0.5316	0.5282	0.5470	0.5365	0.5403	0.5261	0.5330
46	0.4715	0.4648	0.4443	0.4552	0.4527	0.4696	0.4545	0.4575	0.4462	0.4698
47	0.5671	0.5037	0.4860	0.5039	0.4967	0.5100	0.4918	0.5025	0.4942	0.5134
48	0.4556	0.4583	0.4707	0.4796	0.4825	0.4631	0.4824	0.4985	0.4903	0.4827
49	0.4893	0.4665	0.4745	0.4911	0.4730	0.4807	0.4759	0.4778	0.5546	0.5489

After 100 Cycles

Units: mm

Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**B8**	**B9**	**B10**
1	0.6601	0.7034	0.7053	0.6541	0.6561	0.7021	0.6400	0.7253	0.7599	0.7213
2	0.6618	0.6920	0.6837	0.6638	0.6584	0.7732	0.6810	0.7411	0.7191	0.7460
3	0.6211	0.6496	0.6347	0.6272	0.6251	0.7200	0.6408	0.6982	0.6604	0.6808
4	0.6684	0.6910	0.6783	0.6690	0.6724	0.7536	0.6884	0.7369	0.7027	0.7048
5	0.6286	0.6462	0.6345	0.6223	0.6383	0.7116	0.6428	0.6928	0.6640	0.6549
6	0.6817	0.6949	0.6898	0.6860	0.6918	0.7717	0.6983	0.7477	0.7305	0.7082
7	0.6382	0.6522	0.6480	0.6435	0.6511	0.7215	0.6552	0.7050	0.6995	0.6586
8	0.6915	0.7048	0.6957	0.7041	0.7038	0.7849	0.7069	0.7426	0.7393	0.7193
9	0.6510	0.6716	0.6484	0.6702	0.6768	0.7554	0.6634	0.7049	0.7014	0.6702
10	0.6998	0.7082	0.6870	0.7082	0.7275	0.7063	0.7047	0.7466	0.7411	0.7240
11	0.6514	0.6691	0.6462	0.6718	0.6888	0.7546	0.6666	0.7068	0.6988	0.6677
12	0.6809	0.6992	0.6868	0.7101	0.7259	0.7370	0.7116	0.7387	0.7357	0.7056
13	0.6337	0.6496	0.6415	0.6686	0.6803	0.7630	0.6688	0.6979	0.6877	0.7691
14	0.6898	0.7061	0.7131	0.7312	0.7330	0.7613	0.7081	0.7493	0.7445	0.7244
15	0.6464	0.7052	0.6642	0.6867	0.6965	0.7859	0.6601	0.6970	0.7045	0.7218
16	0.6800	0.6889	0.7073	0.7261	0.7367	0.7261	0.7029	0.7427	0.7509	0.7289
17	0.6330	0.6416	0.6514	0.6804	0.6920	0.7195	0.6552	0.6918	0.6908	0.7288
18	0.6863	0.6888	0.6976	0.7227	0.7522	0.7185	0.6962	0.7380	0.7445	0.7460
19	0.6405	0.6564	0.6505	0.6923	0.7157	0.7296	0.6623	0.7032	0.7036	0.7451
20	0.6894	0.6927	0.6957	0.7328	0.7600	0.7266	0.7037	0.7464	0.7453	0.7920
21	0.6446	0.6534	0.6509	0.6939	0.7181	0.7256	0.6623	0.7064	0.7195	0.7558
22	0.6933	0.6975	0.7003	0.7364	0.7677	0.7728	0.7143	0.7515	0.7665	0.7899
23	0.6408	0.6475	0.6436	0.6823	0.7043	0.7185	0.6569	0.7021	0.7008	0.7275
24	0.6840	0.6764	0.6760	0.7158	0.7434	0.7525	0.6944	0.7407	0.7623	0.7701
25	0.6364	0.6398	0.6409	0.6678	0.6952	0.7029	0.6543	0.6904	0.6985	0.7108
26	0.6715	0.7245	0.6820	0.6966	0.7255	0.7248	0.6940	0.7296	0.7291	0.7207
27	0.6114	0.6156	0.6296	0.6356	0.6584	0.7831	0.6337	0.6657	0.6893	0.7354
28	0.6614	0.6597	0.6861	0.6846	0.7069	0.7363	0.6934	0.7674	0.7539	0.7164
29	0.6269	0.6369	0.6609	0.6547	0.6664	0.7942	0.6604	0.6894	0.7366	0.7444
30	0.6188	0.6077	0.6534	0.6454	0.6434	0.7951	0.6710	0.7171	0.7203	0.6891
31	0.6519	0.6614	0.6808	0.6894	0.6792	0.7893	0.6904	0.7059	0.7336	0.7058
32	0.6072	0.6075	0.6370	0.6361	0.6306	0.7294	0.6383	0.6418	0.7919	0.6616
33	0.6769	0.6685	0.6932	0.6894	0.7054	0.7771	0.6977	0.7025	0.7390	0.7097
34	0.6228	0.6151	0.6412	0.7451	0.6570	0.7228	0.7391	0.6490	0.6841	0.6670
35	0.6833	0.6722	0.6944	0.6944	0.7149	0.7360	0.6871	0.7148	0.7793	0.7170
36	0.6287	0.6195	0.6455	0.6380	0.7797	0.7235	0.6264	0.6628	0.6905	0.6662
37	0.6709	0.6642	0.6862	0.7832	0.7098	0.7576	0.7645	0.7060	0.7333	0.7042
38	0.6342	0.6168	0.6414	0.6620	0.7730	0.7228	0.7299	0.7005	0.7906	0.6651
39	0.7870	0.6764	0.6960	0.6835	0.7182	0.7627	0.6754	0.7149	0.7379	0.7215
40	0.7194	0.6124	0.6435	0.7291	0.6632	0.7217	0.6188	0.6510	0.7834	0.6780

41	0.7016	0.6723	0.7063	0.6869	0.7134	0.7659	0.6765	0.7148	0.7312	0.7278
42	0.6346	0.6178	0.6732	0.7401	0.7583	0.7073	0.7433	0.6504	0.7806	0.6863
43	0.6850	0.6636	0.6931	0.7967	0.7070	0.7559	0.7830	0.7041	0.7173	0.7451
44	0.6386	0.6099	0.7397	0.6371	0.6596	0.7137	0.6219	0.6442	0.7703	0.7025
45	0.6845	0.6626	0.7231	0.7950	0.7113	0.7386	0.7739	0.6886	0.7585	0.7446
46	0.6289	0.6096	0.7292	0.7199	0.6460	0.6819	0.7375	0.6262	0.7625	0.7117
47	0.7133	0.6526	0.6665	0.6590	0.6811	0.7204	0.6716	0.6674	0.7543	0.7467
48	0.7395	0.6446	0.7402	0.5782	0.6228	0.7681	0.6358	0.6175	0.6703	0.6816
49	0.6725	0.6709	0.7692	0.6624	0.6859	0.7166	0.7138	0.6920	0.7402	0.7252

After Thermal

Units: mm

Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**B8**	**B9**	**B10**
1	0.7568	0.7893	0.8039	0.7520	0.7531	0.7403	0.7966	0.8417	0.8051	0.8870
2	0.7742	0.7968	0.7983	0.7786	0.7720	0.7878	0.8320	0.8184	0.8365	0.8637
3	0.7517	0.7739	0.7656	0.7593	0.7584	0.7664	0.8088	0.7777	0.7951	0.8299
4	0.8021	0.8135	0.8065	0.8501	0.8059	0.8125	0.8519	0.8228	0.8242	0.8691
5	0.7680	0.7844	0.7766	0.7648	0.7829	0.7811	0.8190	0.7912	0.7854	0.8347
6	0.8269	0.8326	0.8325	0.8342	0.8318	0.8370	0.8668	0.8599	0.8420	0.8942
7	0.7859	0.7910	0.7922	0.7978	0.7972	0.7993	0.8346	0.8377	0.8056	0.8533
8	0.8365	0.8408	0.8413	0.8522	0.8477	0.8515	0.8667	0.8758	0.8557	0.9100
9	0.7965	0.8104	0.7932	0.8238	0.8255	0.8153	0.8342	0.8407	0.8157	0.8752
10	0.8353	0.8374	0.8214	0.8550	0.8648	0.8465	0.8718	0.8759	0.8577	0.9225
11	0.7925	0.7999	0.7852	0.8160	0.8240	0.8121	0.8349	0.8374	0.8091	0.8754
12	0.8196	0.8199	0.8165	0.8433	0.8538	0.8485	0.8579	0.8630	0.8385	0.9093
13	0.7779	0.7764	0.7781	0.8101	0.8145	0.8089	0.8250	0.8229	0.8069	0.8748
14	0.8258	0.8264	0.8381	0.8604	0.8642	0.8470	0.8681	0.8677	0.8528	0.8212
15	0.7881	0.7791	0.7944	0.8240	0.8311	0.8058	0.8262	0.8415	0.8163	0.8996
16	0.8179	0.8188	0.8319	0.8590	0.8676	0.8413	0.8705	0.8827	0.8553	0.8252
17	0.7645	0.7675	0.7790	0.8119	0.8180	0.7877	0.8169	0.8193	0.8130	0.8786
18	0.8079	0.8057	0.8175	0.8975	0.8729	0.8245	0.8608	0.8643	0.8669	0.9172
19	0.7685	0.7801	0.7716	0.8212	0.8412	0.7986	0.8315	0.8314	0.8288	0.8896
20	0.8187	0.8106	0.8190	0.8598	0.8804	0.8389	0.8630	0.8656	0.8680	0.9262
21	0.7802	0.7767	0.7781	0.8256	0.8470	0.8490	0.8320	0.8383	0.8440	0.8781
22	0.8211	0.8216	0.8250	0.8629	0.9221	0.9126	0.8698	0.8844	0.8695	0.8279
23	0.7708	0.7726	0.7671	0.8133	0.8344	0.8691	0.8237	0.8217	0.8097	0.8733
24	0.8098	0.7993	0.7908	0.8400	0.8714	0.8500	0.8527	0.8535	0.8427	0.8944
25	0.7647	0.7622	0.7622	0.7973	0.8244	0.7887	0.8077	0.8159	0.7894	0.8634
26	0.7905	0.7939	0.7967	0.8152	0.8441	0.8400	0.8407	0.8365	0.8192	0.8793
27	0.7280	0.7293	0.7427	0.7553	0.7727	0.7550	0.7691	0.7901	0.7584	0.8257
28	0.7699	0.7751	0.7946	0.7992	0.8179	0.8181	0.8207	0.8458	0.8121	0.8763
29	0.7247	0.7373	0.7568	0.7524	0.7635	0.7581	0.7770	0.8157	0.7863	0.8678
30	0.7166	0.7060	0.7470	0.7465	0.7389	0.7574	0.7605	0.8006	0.7714	0.9056
31	0.7625	0.7697	0.7846	0.7963	0.7854	0.7990	0.8002	0.8279	0.8154	0.8744
32	0.7265	0.7260	0.7919	0.7513	0.7450	0.7506	0.7460	0.7866	0.7981	0.8250
33	0.7946	0.8372	0.8089	0.8141	0.8198	0.8140	0.8109	0.8408	0.8135	0.8725
34	0.7471	0.7463	0.7632	0.7670	0.7782	0.7614	0.7730	0.7962	0.7527	0.8358
35	0.8123	0.8048	0.8662	0.8225	0.8343	0.8164	0.8331	0.8475	0.8173	0.8908
36	0.7653	0.7563	0.7763	0.7714	0.7984	0.7620	0.8320	0.8053	0.7621	0.8409
37	0.8092	0.8075	0.8668	0.8052	0.8322	0.7941	0.8762	0.8369	0.9146	0.8279

38	0.7799	0.7653	0.7880	0.8210	0.7974	0.7631	0.8020	0.8106	0.8164	0.8844
39	0.8701	0.8594	0.9313	0.8215	0.8359	0.8143	0.8892	0.8483	0.8180	0.8859
40	0.7620	0.7984	0.8256	0.8653	0.7910	0.7629	0.8362	0.7992	0.7696	0.8380
41	0.8850	0.8122	0.8395	0.8966	0.8393	0.8190	0.8888	0.8517	0.9062	0.8373
42	0.7763	0.7622	0.9290	0.8124	0.7812	0.7655	0.8382	0.7477	0.9074	0.8343
43	0.8188	0.8405	0.8727	0.8087	0.8366	0.8150	0.8525	0.8337	0.8040	0.8815
44	0.7687	0.7477	0.7728	0.8141	0.7882	0.7565	0.8862	0.7816	0.8471	0.8330
45	0.8092	0.8380	0.9092	0.8202	0.9333	0.7983	0.8254	0.8301	0.7941	0.8591
46	0.7526	0.8384	0.8026	0.9042	0.8742	0.7511	0.8627	0.7739	0.7430	0.8062
47	0.7824	0.8172	0.7813	0.8305	0.7962	0.7932	0.9004	0.8166	0.7848	0.8365
48	0.7487	0.7762	0.7455	0.8308	0.7403	0.7518	0.8492	0.7773	0.7361	0.7774
49	0.7681	0.7678	0.8045	0.7710	0.9429	0.8542	0.8383	0.8341	0.8780	0.8143

MEC2-50 pos 1.73 mm thick edge card (Max)

Initial									
Units: mm									
Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**B8**	**B9**	**B10**
1	0.4555	0.4605	0.4417	0.4888	0.4846	0.4881	0.4682	0.4475	0.4520	0.5420
2	0.4855	0.4720	0.4849	0.4875	0.4801	0.4937	0.4874	0.4860	0.4895	0.4929
3	0.4505	0.4799	0.4502	0.4526	0.4450	0.4513	0.4531	0.4458	0.4596	0.4546
4	0.5109	0.5101	0.5168	0.5182	0.5139	0.5254	0.5243	0.5228	0.5235	0.5149
5	0.4740	0.4756	0.4843	0.4823	0.4760	0.4753	0.4816	0.4880	0.4928	0.4763
6	0.5495	0.5468	0.5577	0.5543	0.5476	0.5418	0.5622	0.5580	0.5646	0.5465
7	0.5063	0.4922	0.5187	0.5037	0.5024	0.5134	0.5116	0.5055	0.5148	0.5076
8	0.5551	0.5556	0.5699	0.5570	0.5614	0.5509	0.5637	0.5528	0.5473	0.5593
9	0.5036	0.5020	0.5137	0.4997	0.5111	0.5134	0.5121	0.5162	0.5270	0.5073
10	0.5577	0.5590	0.5626	0.5546	0.5691	0.5103	0.5527	0.5510	0.5521	0.5454
11	0.5082	0.5038	0.5153	0.5040	0.5236	0.5174	0.5185	0.5153	0.5194	0.5178
12	0.5470	0.5364	0.5514	0.5427	0.5667	0.5574	0.5491	0.5494	0.5513	0.5528
13	0.4864	0.4832	0.5104	0.4914	0.4982	0.4948	0.4923	0.4902	0.5021	0.5001
14	0.5427	0.5529	0.5580	0.5577	0.5520	0.5586	0.5636	0.5446	0.5695	0.5438
15	0.4994	0.4991	0.5156	0.4915	0.5127	0.5105	0.5146	0.5071	0.5101	0.5189
16	0.5379	0.5528	0.5654	0.5380	0.5535	0.5595	0.5660	0.5567	0.5593	0.5584
17	0.4915	0.5131	0.5347	0.5056	0.5125	0.5069	0.4936	0.4990	0.5129	0.5039
18	0.5521	0.5430	0.5631	0.5577	0.5694	0.5467	0.5548	0.5572	0.5672	0.5500
19	0.5143	0.5231	0.5198	0.5258	0.5249	0.5312	0.5039	0.5123	0.5159	0.5096
20	0.5590	0.5424	0.5598	0.5507	0.5463	0.5543	0.5443	0.5548	0.5507	0.5137
21	0.5165	0.5245	0.5121	0.5225	0.5181	0.5302	0.5003	0.5138	0.5255	0.5212
22	0.5500	0.5503	0.5507	0.5588	0.5500	0.5599	0.5554	0.5577	0.4891	0.5460
23	0.5037	0.5031	0.4920	0.5095	0.5034	0.5060	0.4913	0.4990	0.5193	0.5055
24	0.5520	0.5469	0.5417	0.5517	0.5499	0.5541	0.5328	0.5345	0.5515	0.5419
25	0.4944	0.4971	0.4890	0.4899	0.4960	0.4965	0.4793	0.4799	0.4860	0.4875
26	0.5317	0.5332	0.5303	0.5290	0.5321	0.5381	0.5318	0.5252	0.5352	0.5296
27	0.4522	0.4558	0.4524	0.4452	0.4588	0.4558	0.4480	0.4481	0.4547	0.4499
28	0.5314	0.5025	0.5075	0.5068	0.5206	0.5144	0.5060	0.4982	0.5089	0.5093
29	0.4692	0.4740	0.4743	0.4675	0.4722	0.4704	0.4680	0.4590	0.4659	0.4663
30	0.4472	0.4518	0.4675	0.4451	0.4605	0.4552	0.4731	0.4560	0.4560	0.4509
31	0.5021	0.4968	0.5102	0.4973	0.5047	0.5108	0.5111	0.5056	0.5094	0.4983
32	0.4860	0.4761	0.4637	0.4450	0.4523	0.4532	0.4510	0.4572	0.4492	0.4701

33	0.5202	0.5294	0.5370	0.5336	0.5397	0.5408	0.5368	0.5399	0.5312	0.5348
34	0.4653	0.4784	0.4846	0.4773	0.4805	0.4813	0.4787	0.4859	0.4750	0.4707
35	0.5354	0.5431	0.5595	0.5523	0.5596	0.5541	0.5375	0.5425	0.5452	0.5324
36	0.4832	0.4771	0.5021	0.4920	0.4913	0.4856	0.4846	0.5023	0.4877	0.4727
37	0.5421	0.5293	0.5442	0.5459	0.5502	0.5513	0.5404	0.5554	0.5442	0.5207
38	0.4832	0.4816	0.4875	0.4917	0.4901	0.4986	0.4843	0.4948	0.4912	0.4734
39	0.5489	0.5519	0.5543	0.5587	0.5679	0.5427	0.5322	0.5549	0.5602	0.5349
40	0.4795	0.4848	0.4865	0.4920	0.4851	0.4884	0.4704	0.4843	0.5027	0.4697
41	0.5545	0.5569	0.5532	0.5645	0.5610	0.5103	0.5420	0.5546	0.5596	0.5399
42	0.4829	0.4906	0.4850	0.4970	0.4839	0.4884	0.4696	0.4904	0.4950	0.4753
43	0.5433	0.5540	0.5528	0.5550	0.5536	0.5581	0.5367	0.5487	0.5504	0.5436
44	0.4829	0.4899	0.4822	0.4993	0.4879	0.4828	0.4684	0.4876	0.4997	0.4780
45	0.5400	0.5253	0.5309	0.5470	0.5401	0.5414	0.5115	0.5336	0.5426	0.5275
46	0.4597	0.4578	0.4481	0.4667	0.4525	0.4647	0.4581	0.4615	0.4636	0.4541
47	0.5048	0.4970	0.4952	0.5405	0.4985	0.5065	0.4843	0.5526	0.5065	0.5024
48	0.5217	0.5533	0.4781	0.4846	0.4756	0.4837	0.4830	0.5315	0.5436	0.4583
49	0.4806	0.5482	0.4721	0.5520	0.5463	0.4744	0.4577	0.5542	0.4806	0.4622

After 100 Cycles

Units: mm

Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**B8**	**B9**	**B10**
1	0.7992	0.8269	0.8255	0.7894	0.8272	0.9221	0.8525	0.7986	0.7855	0.8134
2	0.8166	0.8170	0.8706	0.7991	0.8309	0.8274	0.7615	0.8093	0.8273	0.8260
3	0.7779	0.7737	0.8386	0.7573	0.7980	0.7780	0.7913	0.7617	0.7918	0.7897
4	0.8034	0.8116	0.8825	0.7951	0.8324	0.8204	0.8273	0.8038	0.8384	0.8201
5	0.7783	0.7852	0.8020	0.7652	0.7961	0.7886	0.7941	0.7675	0.8155	0.7958
6	0.8453	0.8427	0.8571	0.8196	0.8523	0.8519	0.8584	0.8297	0.8722	0.8449
7	0.8102	0.7819	0.8323	0.7777	0.8487	0.8114	0.8631	0.7762	0.8438	0.8072
8	0.8580	0.8412	0.8837	0.8289	0.8518	0.8601	0.8584	0.8293	0.8979	0.8515
9	0.8128	0.8040	0.8392	0.7912	0.8214	0.8748	0.8292	0.8097	0.8593	0.8054
10	0.8376	0.8467	0.8738	0.8363	0.8639	0.8615	0.9136	0.8454	0.8873	0.8426
11	0.7936	0.8434	0.8392	0.7891	0.8259	0.8224	0.8235	0.8099	0.8520	0.7970
12	0.8320	0.8220	0.8653	0.8288	0.8605	0.8453	0.8954	0.8440	0.8741	0.8824
13	0.7900	0.8282	0.8347	0.7939	0.8238	0.8063	0.8160	0.7982	0.8478	0.8398
14	0.8499	0.8409	0.8769	0.8448	0.8718	0.8650	0.9114	0.8475	0.8920	0.8499
15	0.8090	0.8025	0.8446	0.8008	0.8281	0.8289	0.8354	0.8142	0.8497	0.8581
16	0.8386	0.8800	0.8760	0.8343	0.8695	0.8584	0.9179	0.8553	0.9224	0.8944
17	0.7954	0.8010	0.8327	0.8059	0.8245	0.8203	0.8174	0.8058	0.8730	0.8395
18	0.8407	0.8752	0.8651	0.8442	0.8651	0.8683	0.8566	0.9072	0.8764	0.8847
19	0.8091	0.8854	0.8530	0.8189	0.8401	0.8303	0.8274	0.8227	0.8825	0.8528
20	0.8460	0.8312	0.8745	0.8621	0.8764	0.8809	0.8652	0.8648	0.8949	0.8968
21	0.8051	0.8469	0.8388	0.8230	0.8400	0.8325	0.8274	0.8301	0.8741	0.8538
22	0.8435	0.8243	0.8687	0.8615	0.8774	0.8680	0.8666	0.9018	0.8773	0.8991
23	0.7920	0.7814	0.8165	0.8119	0.8206	0.8148	0.8172	0.8849	0.8701	0.8488
24	0.8279	0.8632	0.8509	0.8417	0.8546	0.8495	0.8411	0.8443	0.8867	0.8742
25	0.7816	0.8744	0.8095	0.7975	0.8140	0.8088	0.8534	0.8967	0.8822	0.8408
26	0.8142	0.8677	0.8355	0.8207	0.8437	0.8867	0.8387	0.8758	0.9894	0.8256
27	0.8110	0.7785	0.7845	0.7719	0.8022	0.8351	0.7979	0.8287	0.7897	0.8263
28	0.8230	0.8376	0.8369	0.8267	0.8626	0.8876	0.8537	0.8739	0.8465	0.8395
29	0.8120	0.8628	0.8217	0.8175	0.8502	0.8195	0.8405	0.8576	0.8788	0.8676

30	0.7893	0.8118	0.8165	0.7916	0.8299	0.8118	0.8361	0.8061	0.8185	0.8154
31	0.8184	0.8403	0.8357	0.8230	0.8551	0.8325	0.8487	0.8267	0.8435	0.8371
32	0.7633	0.7889	0.7904	0.7842	0.8133	0.7740	0.7898	0.7847	0.7913	0.7865
33	0.8163	0.8435	0.8395	0.8571	0.8691	0.8300	0.8361	0.8474	0.8492	0.8423
34	0.7737	0.7996	0.7970	0.8153	0.8253	0.7790	0.7891	0.8090	0.8122	0.7991
35	0.8229	0.8472	0.8486	0.8786	0.8793	0.8311	0.8287	0.8611	0.8647	0.8422
36	0.7805	0.7935	0.8044	0.8306	0.8377	0.7785	0.7918	0.8129	0.8283	0.7962
37	0.8258	0.8302	0.8354	0.8646	0.8775	0.8240	0.8327	0.8592	0.8733	0.8346
38	0.7865	0.7925	0.8037	0.8297	0.8386	0.7850	0.8048	0.8242	0.8384	0.7969
39	0.8314	0.8380	0.8477	0.8672	0.8839	0.8353	0.8436	0.8650	0.8808	0.8375
40	0.7813	0.7853	0.8032	0.8165	0.8421	0.7880	0.7929	0.8166	0.8346	0.7952
41	0.8404	0.8461	0.8533	0.8702	0.8930	0.8454	0.8493	0.8675	0.8831	0.8520
42	0.7855	0.7998	0.8044	0.8166	0.8457	0.7991	0.8006	0.8162	0.8317	0.8001
43	0.8312	0.8466	0.8515	0.8604	0.8873	0.8612	0.8439	0.8582	0.8718	0.8510
44	0.7939	0.8007	0.8032	0.8079	0.8475	0.8052	0.7993	0.8110	0.8259	0.8027
45	0.8291	0.8392	0.8341	0.8468	0.8773	0.8368	0.8363	0.8387	0.8520	0.8309
46	0.7781	0.7916	0.7810	0.7917	0.8221	0.7915	0.7885	0.7927	0.7950	0.7837
47	0.8226	0.8272	0.8198	0.8303	0.8559	0.8353	0.8322	0.8236	0.8321	0.8236
48	0.7853	0.7918	0.7866	0.7915	0.8109	0.8008	0.8080	0.7811	0.7989	0.7816
49	0.8506	0.8582	0.8471	0.8577	0.8774	0.8592	0.8411	0.8494	0.8594	0.8474

After Thermal

Units: mm

Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**B8**	**B9**	**B10**
1	0.9346	0.9517	0.9546	0.9154	0.9549	1.0713	0.9523	0.9344	0.9923	0.9503
2	0.9702	0.9717	1.0151	0.9539	0.9819	0.9800	0.9886	0.9650	0.9862	0.9851
3	0.9576	0.9545	1.0050	0.9303	0.9734	0.9618	0.9723	0.9435	0.9690	0.9745
4	0.9904	0.9970	1.0570	0.9729	1.0149	1.0105	1.0186	0.9886	1.0239	1.0046
5	0.9825	0.9834	1.0007	0.9566	0.9986	0.9996	1.0052	0.9701	1.0107	0.9924
6	1.0501	1.0485	1.0550	1.0200	1.0633	1.0607	1.0755	1.0343	1.0735	1.0539
7	1.0232	0.9923	1.0319	0.9900	1.0294	1.0282	1.0413	0.9890	1.0519	1.0231
8	1.0751	1.0500	1.0814	1.0419	1.0734	1.0762	1.0801	1.0408	1.0958	1.0574
9	1.0485	1.0102	1.0407	1.0117	1.0459	1.0422	1.0556	1.0182	1.0595	1.0165
10	1.0627	1.0561	1.0638	1.0492	1.0794	1.0809	1.0852	1.0463	1.0788	1.0475
11	1.0133	1.0023	1.0290	1.0031	1.0440	1.0404	1.0382	1.0114	1.0443	1.0072
12	1.0552	1.0232	1.0558	1.0361	1.0731	1.0566	1.0596	1.0334	1.0613	1.0332
13	1.0161	0.9853	1.0288	1.0024	1.0434	1.0209	1.0367	0.9935	1.0449	1.0008
14	1.0603	1.0380	1.0644	1.0433	1.0864	1.0775	1.0780	1.0390	1.0845	1.0458
15	1.0307	1.0057	1.0422	1.0139	1.0482	1.0414	1.0559	1.0082	1.0456	1.0199
16	1.0547	1.0343	1.0961	1.0457	1.0830	1.0690	1.0868	1.0417	1.0726	1.0512
17	1.0235	0.9952	1.0244	1.0093	1.0390	1.0371	1.0353	0.9949	1.0286	1.0051
18	1.0586	1.0306	1.0526	1.0380	1.0715	1.0826	1.0664	1.0368	1.0643	1.0499
19	1.0390	1.0038	1.0424	1.0169	1.0504	1.0506	1.0464	1.0115	1.0331	1.0219
20	1.0628	1.0437	1.0698	1.0562	1.0884	1.0941	1.0797	1.0437	1.0650	1.0666
21	1.0231	1.0108	1.0346	1.0139	1.0485	1.0514	1.0493	1.0095	1.0272	1.0291
22	1.0578	1.0240	1.0697	1.0520	1.0767	1.0773	1.0799	1.0389	1.0629	1.0725
23	1.0003	0.9735	1.0066	0.9914	1.0115	1.0225	1.0240	0.9985	1.0088	1.0143
24	1.0205	0.9993	1.0375	1.0150	1.0360	1.0436	1.0397	1.0155	1.0159	1.0288
25	0.9706	0.9638	0.9865	0.9764	0.9961	0.9987	0.9971	0.9677	0.9677	0.9908
26	0.9994	0.9867	1.0020	0.9873	1.0126	1.0057	1.0090	0.9825	0.9940	1.0039

27	0.9371	0.9317	0.9443	0.9290	0.9584	0.9424	0.9550	0.9372	0.9412	0.9425
28	0.9770	0.9786	0.9841	0.9746	1.0057	0.9868	0.9973	0.9643	0.9856	0.9871
29	0.9469	0.9409	0.9479	0.9480	0.9759	0.9443	0.9659	0.9315	0.9544	0.9544
30	0.9210	0.9288	0.9401	0.9183	0.9555	0.9354	0.9602	0.9268	0.9361	0.9414
31	0.9657	0.9718	0.9726	0.9680	0.9968	0.9707	0.9943	0.9659	0.9780	0.9785
32	0.9219	0.9335	0.9430	0.9359	0.9702	0.9234	0.9464	0.9309	0.9365	0.9439
33	0.9903	0.9893	1.0025	1.0124	1.0257	0.9869	1.0042	0.9940	1.0045	1.0159
34	0.9570	0.9555	0.9716	0.9817	0.9960	0.9514	0.9712	0.9670	0.9727	0.9877
35	1.0128	1.0046	1.0293	1.0448	1.0573	1.0124	1.0245	1.0231	1.0264	1.0411
36	0.9731	0.9570	0.9882	0.9993	1.0186	0.9695	0.9976	0.9802	0.9913	1.0059
37	1.0176	0.9902	1.0224	1.0306	1.0642	1.0117	1.0405	1.0268	1.0379	1.0468
38	0.9832	0.9582	0.9998	1.0022	1.0285	0.9806	1.0178	0.9994	1.0098	1.0194
39	1.0209	1.0349	1.0451	1.0374	1.0672	1.0243	1.0600	1.0435	1.0482	1.0543
40	0.9719	0.9501	1.0057	0.9931	1.0254	0.9843	1.0114	0.9941	1.0074	1.0164
41	1.0315	1.0490	1.0508	1.0467	1.0804	1.0539	1.0625	1.0461	1.0561	1.0699
42	0.9729	1.0034	0.9983	0.9941	1.0281	0.9981	1.0119	0.9891	1.0011	1.0066
43	1.0113	1.0117	1.0396	1.0324	1.0721	1.0485	1.0519	1.0252	1.0379	1.0524
44	0.9704	0.9662	1.0019	0.9798	1.0266	0.9982	1.0010	0.9807	0.9917	0.9962
45	0.9977	0.9953	1.0118	1.0127	1.0486	1.0189	1.0244	1.0042	1.0136	1.0157
46	0.9489	0.9524	0.9553	0.9572	0.9921	0.9797	0.9730	0.9541	0.9645	0.9674
47	0.9814	0.9749	0.9844	0.9864	1.0090	0.9977	0.9984	0.9723	0.9833	0.9902
48	0.9371	0.9309	0.9447	0.9427	0.9602	0.9586	0.9657	0.9244	0.9460	0.9382
49	0.9852	0.9783	0.9842	0.9847	1.0081	0.9902	0.9868	0.9703	0.9816	0.9856

DATA Continued

CONTACT GAPS:

MEC2-20 pos 1.57 mm thick edge card (Mid)

Initial

Units: mm

Pos.#	B1	B2	B3	B4	B5	B6
1	0.4358	0.4167	0.4321	0.5104	0.4297	0.4763
2	0.4271	0.4217	0.4375	0.4753	0.4248	0.4450
3	0.4507	0.4322	0.4504	0.4639	0.4280	0.4168
4	0.4681	0.4781	0.4833	0.4929	0.4613	0.4210
5	0.4668	0.4622	0.4957	0.5008	0.4860	0.4846
6	0.4731	0.4647	0.4924	0.5126	0.4897	0.4477
7	0.4869	0.4718	0.4982	0.5411	0.4760	0.4709
8	0.4999	0.4902	0.4981	0.5529	0.4797	0.5051
9	0.5024	0.4898	0.4931	0.5304	0.5190	0.4912
10	0.5114	0.5178	0.5165	0.5110	0.5225	0.4949
11	0.5174	0.5389	0.5229	0.5001	0.5362	0.4961
12	0.5323	0.5485	0.5476	0.4933	0.5457	0.5087
13	0.5430	0.5656	0.5635	0.4938	0.5569	0.5327
14	0.5279	0.5481	0.5641	0.4787	0.5630	0.5425
15	0.5050	0.5218	0.5245	0.4649	0.5612	0.5415
16	0.4966	0.4994	0.5204	0.4704	0.5403	0.5214
17	0.4915	0.4876	0.4917	0.4621	0.5232	0.5129
18	0.4737	0.4635	0.4617	0.4468	0.4800	0.5067
19	0.4903	0.4693	0.4723	0.4310	0.4467	0.4755

After 100 Cycles

Units: mm

Pos.#	B1	B2	B3	B4	B5	B6
1	0.7068	0.7517	0.7581	0.7539	0.7273	0.7005
2	0.7716	0.7346	0.7193	0.7205	0.7062	0.7280
3	0.7205	0.7279	0.7122	0.6906	0.7488	0.7167
4	0.7693	0.7741	0.7232	0.7975	0.7019	0.7050
5	0.7194	0.7371	0.7262	0.7005	0.7454	0.7178
6	0.7803	0.7445	0.7324	0.7514	0.7622	0.7094
7	0.7047	0.7573	0.7031	0.7643	0.7689	0.7127
8	0.7731	0.7502	0.6940	0.7515	0.7628	0.7352
9	0.7528	0.7257	0.6801	0.7295	0.7151	0.7224
10	0.7516	0.7222	0.6781	0.7133	0.7218	0.7299
11	0.7441	0.7194	0.6720	0.7456	0.7349	0.7272
12	0.7486	0.7232	0.6829	0.7845	0.7604	0.7293
13	0.7576	0.7389	0.6930	0.7534	0.7655	0.7329
14	0.7514	0.7313	0.6959	0.7386	0.7476	0.7583
15	0.7463	0.7184	0.6734	0.7411	0.7466	0.7238
16	0.7465	0.7147	0.6802	0.7429	0.7398	0.7205
17	0.7558	0.7207	0.6778	0.7450	0.7406	0.7037
18	0.7635	0.7212	0.6742	0.7355	0.7490	0.6926
19	0.7157	0.7451	0.7021	0.7755	0.7709	0.7360

DATA Continued

CONTACT GAPS:

MEC2-08 pos 1.41 mm thick edge card (Min)

Initial									
Units: mm									
Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**B8**	**B9**	**B10**
1	0.4906	0.5087	0.5017	0.4908	0.5051	0.4962	0.4971	0.4910	0.4966	0.4876
2	0.4915	0.4881	0.4832	0.4932	0.4854	0.4981	0.5432	0.4952	0.4888	0.4942
3	0.5251	0.4986	0.5196	0.5185	0.5140	0.5176	0.5203	0.5047	0.5170	0.5037
4	0.5166	0.4976	0.5076	0.5172	0.5109	0.5165	0.5264	0.5156	0.5090	0.5144
5	0.5158	0.5166	0.5352	0.5308	0.5217	0.5253	0.5372	0.5251	0.5206	0.5239
6	0.4630	0.4942	0.4593	0.4644	0.4681	0.4821	0.4889	0.4614	0.4757	0.4609
7	0.4585	0.4808	0.4433	0.4774	0.4566	0.4790	0.5117	0.4594	0.4702	0.4593
After 100 Cycles									
Units: mm									
Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**B8**	**B9**	**B10**
1	0.7062	0.7700	0.7009	0.7719	0.7672	0.7425	0.7574	0.7445	0.7218	0.7808
2	0.7553	0.6901	0.7216	0.6821	0.6851	0.6871	0.7374	0.7171	0.6660	0.6773
3	0.7099	0.7393	0.7061	0.6693	0.7289	0.6749	0.7016	0.7086	0.6637	0.6970
4	0.7518	0.7604	0.7482	0.7612	0.6824	0.7697	0.6804	0.7261	0.6588	0.6901
5	0.7570	0.6833	0.6816	0.7047	0.6951	0.6721	0.7418	0.7098	0.7395	0.6591
6	0.7201	0.6902	0.6959	0.7068	0.6867	0.6806	0.7065	0.6755	0.7015	0.6799
7	0.7519	0.7768	0.7748	0.7730	0.7161	0.7554	0.7775	0.7209	0.7594	0.7368

MEC2-08 pos 1.73 mm thick edge card (Max)

Initial									
Units: mm									
Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**B8**	**B9**	**B10**
1	0.5145	0.4868	0.4908	0.4987	0.5009	0.5036	0.5151	0.5140	0.5125	0.5132
2	0.4860	0.4843	0.4807	0.4942	0.5503	0.4657	0.4650	0.4713	0.4777	0.4825
3	0.5099	0.5037	0.5061	0.5190	0.5149	0.5373	0.5515	0.5519	0.5477	0.5543
4	0.5008	0.5071	0.4897	0.5256	0.5142	0.4921	0.5031	0.5013	0.4952	0.5045
5	0.5299	0.5284	0.5173	0.5353	0.5283	0.5511	0.5606	0.5534	0.5425	0.5670
6	0.4644	0.4612	0.4846	0.4739	0.4689	0.5008	0.5031	0.5018	0.5059	0.5167
7	0.4574	0.4579	0.4767	0.4784	0.4641	0.5588	0.5700	0.5624	0.5607	0.5718
After 100 Cycles									
Units: mm									
Pos.#	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**B8**	**B9**	**B10**
1	0.8691	0.8531	0.8460	0.8668	0.8684	0.8636	0.8655	0.8801	0.8592	0.8619
2	0.8313	0.8285	0.8101	0.8309	0.8354	0.8827	0.8361	0.8479	0.8551	0.8302
3	0.8232	0.8384	0.8212	0.8301	0.8724	0.8376	0.8369	0.8467	0.8594	0.8343
4	0.8167	0.8371	0.8227	0.8329	0.8059	0.8830	0.8437	0.8402	0.8323	0.8276
5	0.8621	0.8569	0.8455	0.8633	0.8368	0.8537	0.8563	0.8574	0.8588	0.8620
6	0.8318	0.8327	0.8208	0.8266	0.8844	0.8224	0.8238	0.8498	0.8222	0.8305
7	0.8556	0.8531	0.8560	0.8446	0.8521	0.8548	0.8520	0.8800	0.8384	0.8645

DATA Continued

Mating—Unmating

MEC2-50 pos 1.41 mm thick edge card (Min)

Sample#	Initial		After 25 Cycles		After 50 Cycles		After 75 Cycles	
	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	8.75	3.62	8.22	3.51	8.07	3.44	7.81	3.40
2	9.48	4.06	8.47	4.19	8.36	4.12	8.25	4.04
3	9.57	3.97	8.11	3.86	7.85	3.79	7.52	3.77
4	8.45	3.75	8.93	3.81	8.33	3.70	7.81	3.53
5	9.35	3.79	8.07	3.57	7.61	3.42	7.17	3.31
6	7.92	3.37	8.11	3.88	7.61	3.70	7.50	3.42
7	9.35	3.88	7.76	3.79	8.09	3.40	8.58	3.31
8	9.33	4.32	8.05	4.17	7.87	3.97	7.72	3.86
9	9.75	3.95	8.89	3.84	8.78	3.97	8.40	4.01
10	9.26	4.26	7.78	3.73	7.06	3.53	6.73	3.42

Sample#	After 100 Cycles		After Thermals		After Humidity	
	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	7.19	3.44	6.28	3.75	4.96	2.82
2	8.22	4.01	6.68	3.44	6.09	3.13
3	7.10	3.53	6.39	3.51	5.38	2.98
4	7.28	3.44	5.87	2.98	5.98	3.26
5	6.75	3.31	6.77	3.62	5.67	2.98
6	7.25	3.29	6.99	3.59	5.23	2.69
7	8.73	3.29	6.28	3.35	5.29	2.87
8	7.56	3.75	5.93	3.42	5.18	2.84
9	8.38	4.01	6.70	3.59	5.40	2.89
10	6.04	3.11	6.68	3.31	5.51	2.98

DATA Continued

MEC2-50 pos 1.73 mm thick edge card (Max)

Sample#	Initial		After 25 Cycles		After 50 Cycles		After 75 Cycles	
	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	13.78	5.53	13.67	5.40	13.56	5.12	13.43	5.07
2	13.23	5.25	13.12	5.07	13.19	4.96	12.28	4.85
3	12.35	5.60	12.13	5.29	12.06	5.18	11.07	5.20
4	12.15	5.40	12.06	5.29	11.91	5.14	11.53	5.07
5	13.54	5.40	13.25	5.29	12.74	5.07	11.47	4.67
6	11.29	6.02	11.29	5.73	11.29	5.64	10.80	5.29
7	12.33	4.63	11.25	4.59	9.79	4.59	10.01	4.63
8	12.90	5.87	12.02	5.29	11.47	5.03	10.96	4.96
9	11.58	4.59	11.47	4.63	11.31	4.78	10.96	4.85
10	12.50	4.90	12.13	4.85	12.04	4.87	12.08	4.63

Sample#	After 100 Cycles		After Thermals		After Humidity	
	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	13.01	5.05	8.05	3.92	7.61	3.53
2	12.06	4.63	8.56	4.59	7.63	4.43
3	10.91	5.23	7.70	4.63	7.87	4.63
4	10.85	4.92	8.80	4.17	8.07	4.08
5	10.61	4.87	8.64	4.30	7.50	3.44
6	10.72	4.98	7.83	3.90	8.20	4.12
7	10.25	4.65	8.25	4.28	7.14	4.23
8	10.89	4.90	7.83	4.12	7.50	4.10
9	10.69	4.90	10.01	4.54	7.12	3.90
10	12.11	4.59	8.11	3.95	7.81	3.70

DATA Continued

Mating—Unmating

MEC2-20 pos 1.57 mm thick edge card (Mid)

	Initial		After 25 Cycles		After 50 Cycles		After 75 Cycles		After 100 Cycles	
Sample#	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	4.50	2.36	5.07	2.16	4.45	1.79	4.45	1.87	4.48	1.74
2	5.18	2.38	4.63	2.09	4.39	1.87	4.19	1.83	3.97	1.79
3	5.18	2.29	5.01	2.18	5.03	2.07	4.63	1.98	4.01	1.81
4	4.70	1.98	4.74	1.87	4.70	1.65	4.48	1.68	4.19	1.68
5	4.78	2.07	4.41	1.98	4.15	1.81	3.97	1.81	3.88	1.76
6	5.14	2.27	4.74	2.21	4.45	1.79	4.28	1.74	3.84	1.68

Mating—Unmating

MEC2-08 pos 1.41 mm thick edge card (Min)

	Initial		After 25 Cycles		After 50 Cycles		After 75 Cycles		After 100 Cycles	
Sample#	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	1.10	0.64	1.06	0.62	0.99	0.55	0.95	0.57	0.93	0.62
2	1.17	0.73	1.10	0.64	1.04	0.60	0.99	0.55	0.90	0.57
3	1.10	0.64	0.95	0.66	1.10	0.68	1.04	0.55	1.12	0.51
4	1.15	0.84	1.04	0.77	0.99	0.71	1.10	0.55	1.06	0.49
5	1.06	0.66	0.99	0.62	0.99	0.66	1.06	0.57	1.15	0.53
6	1.08	0.66	1.04	0.68	0.93	0.62	0.95	0.51	0.99	0.55
7	1.10	0.60	0.99	0.64	1.04	0.55	0.99	0.49	1.01	0.49
8	1.30	0.55	1.21	0.55	1.10	0.60	0.99	0.51	0.99	0.55
9	1.21	0.75	1.19	0.73	1.04	0.66	0.93	0.53	0.88	0.53
10	1.50	0.71	1.48	0.66	1.10	0.68	1.21	0.64	1.35	0.60

MEC2-08 pos 1.73 mm thick edge card (Max)

	Initial		After 25 Cycles		After 50 Cycles		After 75 Cycles		After 100 Cycles	
Sample#	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating	Mating	Unmating
1	1.74	1.08	1.50	0.86	1.50	0.86	1.54	0.82	1.50	0.71
2	2.07	1.19	1.81	0.93	1.79	0.88	1.63	0.88	1.59	0.82
3	2.09	0.93	1.70	1.12	1.63	0.86	1.74	0.82	1.65	0.71
4	1.87	1.23	2.03	0.88	1.92	1.01	1.63	0.75	1.68	0.71
5	1.96	1.15	1.87	1.04	1.79	0.84	1.72	0.77	1.57	0.68
6	1.76	0.93	1.96	1.23	1.63	0.77	1.59	0.75	1.50	0.77
7	1.92	1.23	2.07	0.86	1.96	0.88	1.46	0.84	1.46	0.82
8	1.92	1.01	1.92	0.93	1.83	0.93	1.81	0.86	1.76	0.77
9	1.76	1.26	1.74	1.01	1.54	1.08	1.63	0.77	1.57	0.68
10	1.76	1.25	1.74	1.12	1.63	0.99	1.70	0.99	1.52	0.84

DATA Continued

LLCR:

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

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	100 Cycles	Thermal	Humidity
1	P1	4.5	0.1	0.5	0.4
1	P2	4.2	-0.1	0.6	2.1
1	P3	3.7	0.3	0.9	0.3
1	P4	3.9	0.2	0.5	0.1
1	P5	4.0	0.0	1.2	-0.1
1	P6	4.2	-0.1	0.8	0.9
1	P7	4.4	-0.2	1.0	0.1
1	P8	4.0	-0.1	2.1	1.5
1	P9	3.9	0.2	1.0	1.5
1	P10	4.6	-0.4	4.3	0.3
1	P11	4.5	-0.4	0.3	-0.4
1	P12	4.6	-0.6	0.1	-0.3
1	P13	4.3	-0.3	0.5	-0.3
1	P14	4.4	-0.4	3.3	0.6
1	P15	4.6	-0.3	-0.4	1.7
1	P16	4.4	-0.5	0.4	0.1
1	P17	4.1	-0.3	0.7	-0.1
1	P18	4.1	-0.3	0.5	4.8
1	P19	4.1	0.0	0.6	0.7
1	P20	4.8	-0.4	0.5	1.8
1	P21	4.4	0.1	2.3	1.8
1	P22	3.8	0.5	3.5	-0.3
1	P23	4.1	0.1	0.1	2.2
1	P24	4.2	0.1	0.4	1.4
2	P1	4.4	0.2	2.7	1.3
2	P2	4.3	0.4	1.1	1.6
2	P3	4.2	0.5	1.0	2.3
2	P4	4.2	0.6	2.0	2.2
2	P5	4.2	-0.1	1.1	5.3
2	P6	3.9	0.2	0.5	4.4
2	P7	4.7	0.8	1.4	0.9
2	P8	4.1	0.1	0.4	2.8
2	P9	4.2	-0.5	1.1	2.0
2	P10	4.2	-0.4	1.0	0.6
2	P11	3.7	-0.1	0.6	2.7
2	P12	3.7	0.3	1.1	2.7
2	P13	4.0	0.1	1.2	3.3
2	P14	3.8	0.1	1.5	1.1
2	P15	4.5	-0.3	2.9	2.1
2	P16	3.9	0.2	1.3	1.7
2	P17	3.7	-0.1	0.8	1.9
2	P18	4.1	0.4	1.2	3.3
2	P19	4.0	0.4	2.7	1.8

2	P20	4.3	0.6	1.1	5.0
2	P21	3.8	-0.1	0.0	2.0
2	P22	3.9	-0.4	-0.4	1.4
2	P23	3.9	4.5	4.1	4.9
2	P24	4.9	-0.2	0.3	0.1
3	P1	4.4	-0.3	0.1	2.2
3	P2	4.3	0.0	0.4	1.7
3	P3	4.3	0.2	0.4	0.5
3	P4	4.2	0.2	0.3	2.3
3	P5	4.1	0.1	1.1	3.8
3	P6	3.8	-0.2	0.7	0.3
3	P7	3.7	0.1	0.6	1.5
3	P8	3.7	0.5	1.4	2.1
3	P9	3.7	0.3	0.8	2.3
3	P10	3.7	0.2	1.1	2.2
3	P11	4.1	-0.3	1.1	0.1
3	P12	3.7	0.0	0.9	0.6
3	P13	4.2	-0.2	0.3	1.7
3	P14	3.6	0.0	0.4	1.5
3	P15	4.0	-0.1	0.7	4.4
3	P16	4.9	-1.0	-0.9	0.1
3	P17	4.1	-0.2	-0.1	1.0
3	P18	4.9	-0.2	0.5	0.6
3	P19	4.3	0.0	1.1	2.7
3	P20	4.3	1.0	1.1	1.6
3	P21	3.7	0.2	0.4	2.7
3	P22	3.9	-0.2	0.2	0.1
3	P23	3.9	0.0	0.6	1.8
3	P24	4.1	0.2	0.3	1.6
4	P1	4.6	-0.4	1.2	1.8
4	P2	4.2	0.2	0.5	2.3
4	P3	4.2	0.3	0.6	2.8
4	P4	3.8	0.0	0.8	1.3
4	P5	4.0	0.0	0.7	1.1
4	P6	3.9	-0.1	0.1	0.5
4	P7	4.1	0.4	-0.2	1.3
4	P8	4.2	0.7	0.5	2.8
4	P9	5.1	-0.1	-0.3	0.4
4	P10	4.6	0.6	0.3	2.5
4	P11	4.1	1.0	0.2	4.2
4	P12	3.8	0.8	0.4	2.7
4	P13	4.3	0.6	0.7	2.5
4	P14	3.7	0.1	0.5	4.0
4	P15	4.0	0.3	0.1	1.7
4	P16	4.1	0.7	0.7	4.0
4	P17	3.6	0.5	1.1	2.6
4	P18	4.5	0.2	0.6	2.0
4	P19	4.1	0.2	0.3	5.2
4	P20	3.8	0.3	0.5	2.9

4	P21	3.7	0.0	0.4	2.5
4	P22	4.1	0.0	0.0	2.3
4	P23	4.1	-0.3	0.5	0.3
4	P24	4.0	-0.1	0.8	3.5
5	P1	4.1	1.4	1.2	2.1
5	P2	4.0	0.5	1.3	4.5
5	P3	4.0	0.5	1.0	4.8
5	P4	3.9	0.5	0.8	2.3
5	P5	4.4	-0.2	-0.2	0.0
5	P6	3.8	-0.1	0.5	2.1
5	P7	3.9	0.2	0.6	1.0
5	P8	3.9	0.2	0.8	2.7
5	P9	4.1	0.8	0.5	2.1
5	P10	3.8	0.5	1.0	2.4
5	P11	3.7	0.3	0.9	2.3
5	P12	4.2	-0.1	0.7	2.4
5	P13	4.2	1.2	0.9	0.7
5	P14	3.8	0.0	1.0	1.4
5	P15	4.0	0.3	0.2	4.5
5	P16	3.7	0.5	0.9	0.7
5	P17	3.8	0.4	0.5	2.2
5	P18	3.9	0.2	0.8	2.7
5	P19	3.6	1.1	1.4	1.2
5	P20	3.9	0.0	1.2	1.2
5	P21	4.1	0.7	1.8	1.7
5	P22	3.8	1.1	1.4	4.2
5	P23	3.9	0.5	1.1	3.8
5	P24	4.2	0.4	1.5	2.1
6	P1	4.7	-0.7	1.4	0.2
6	P2	4.4	0.4	0.2	0.7
6	P3	4.3	0.4	0.7	1.6
6	P4	4.1	0.1	0.5	1.9
6	P5	4.0	0.7	1.0	2.2
6	P6	3.7	0.7	0.3	1.3
6	P7	4.1	-0.2	-0.3	2.9
6	P8	4.1	0.8	0.2	2.3
6	P9	4.0	0.2	0.2	1.6
6	P10	3.8	0.8	0.6	1.7
6	P11	3.7	0.8	2.4	1.6
6	P12	3.8	2.3	1.8	5.6
6	P13	7.1	-2.1	-2.4	-0.7
6	P14	4.3	0.2	0.5	1.1
6	P15	5.2	2.1	1.1	4.2
6	P16	4.8	0.6	1.4	0.8
6	P17	4.4	0.2	1.4	2.0
6	P18	4.0	0.8	1.1	2.6
6	P19	3.6	0.4	1.2	2.9
6	P20	3.9	0.0	1.0	3.5
6	P21	3.8	0.3	1.2	3.1

6	P22	4.3	0.4	0.8	0.5
6	P23	3.7	0.5	0.7	2.2
6	P24	4.2	0.1	1.0	0.9
7	P1	3.8	0.2	0.8	2.5
7	P2	4.0	0.6	0.6	1.7
7	P3	4.7	-0.6	0.6	0.2
7	P4	4.0	0.1	0.9	4.2
7	P5	4.1	0.4	1.0	4.7
7	P6	3.8	0.3	0.4	2.0
7	P7	4.0	0.2	0.9	2.4
7	P8	3.7	0.1	1.0	3.2
7	P9	3.8	0.1	0.9	0.9
7	P10	3.9	0.2	0.4	3.2
7	P11	4.6	-0.6	0.4	0.3
7	P12	4.0	0.0	0.4	3.2
7	P13	4.1	0.3	0.4	1.4
7	P14	3.8	0.3	0.7	2.7
7	P15	4.0	-0.2	0.5	1.6
7	P16	3.6	0.3	0.8	2.8
7	P17	4.0	-0.2	0.2	2.0
7	P18	4.2	-0.2	0.4	2.7
7	P19	3.8	0.3	1.5	3.4
7	P20	4.2	-0.2	1.0	3.5
7	P21	4.3	0.2	1.5	3.7
7	P22	3.9	1.0	2.3	2.4
7	P23	4.3	0.3	0.7	2.1
7	P24	3.8	0.1	0.2	2.5
8	P1	3.7	0.1	0.5	3.2
8	P2	3.9	-0.2	0.4	1.5
8	P3	3.6	0.0	0.6	0.9
8	P4	3.6	0.2	0.3	2.0
8	P5	3.8	0.1	0.9	2.4
8	P6	3.4	0.2	0.5	1.3
8	P7	3.6	0.2	0.4	0.8
8	P8	3.8	0.1	0.7	0.9
8	P9	3.8	0.1	0.6	1.9
8	P10	4.2	-0.3	0.2	0.3
8	P11	4.3	-0.5	-0.3	-0.2
8	P12	4.0	-0.3	0.2	0.5
8	P13	3.9	0.2	0.2	1.0
8	P14	3.6	0.0	0.0	-0.1
8	P15	3.7	0.2	0.4	0.2
8	P16	3.5	0.0	0.6	0.7
8	P17	3.7	0.0	0.2	0.7
8	P18	3.7	0.3	0.8	1.9
8	P19	3.7	0.2	0.5	0.1
8	P20	3.6	0.3	0.9	1.6
8	P21	4.2	0.6	1.0	3.8
8	P22	3.4	0.3	0.7	5.4

8	P23	4.1	0.1	0.1	0.6
8	P24	3.9	-0.2	0.3	1.5

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

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	100 Cycles	Thermal	Humidity
1	P1	3.1	0.1	0.6	0.8
1	P2	2.9	0.0	0.2	1.4
1	P3	3.0	-0.1	0.0	1.3
1	P4	3.0	0.0	0.1	0.3
1	P5	2.9	0.0	0.1	0.1
1	P6	2.8	0.1	0.0	0.1
1	P7	2.8	0.0	0.0	0.3
1	P8	3.1	-0.2	-0.1	0.0
1	P9	2.8	0.0	0.1	0.3
1	P10	2.8	0.0	0.2	0.4
1	P11	2.9	-0.1	0.0	2.7
1	P12	2.9	-0.1	0.0	0.3
1	P13	3.0	0.0	0.2	0.3
1	P14	2.6	0.1	0.2	1.0
1	P15	2.7	0.1	0.3	2.8
1	P16	2.8	0.0	0.1	1.4
1	P17	2.8	-0.1	0.3	3.5
1	P18	2.8	0.0	0.2	2.9
1	P19	2.8	0.0	0.2	1.3
1	P20	2.8	0.1	0.3	1.4
1	P21	2.8	0.1	0.3	1.7
1	P22	2.8	0.2	0.3	0.3
1	P23	2.9	0.0	0.1	0.1
1	P24	3.0	0.0	0.2	0.6
2	P1	3.3	0.0	0.2	0.9
2	P2	3.1	0.0	0.2	1.0
2	P3	3.1	-0.1	0.3	1.2
2	P4	3.1	0.0	0.2	0.2
2	P5	3.0	0.1	0.9	0.5
2	P6	2.9	0.1	0.1	0.0
2	P7	2.9	0.2	0.2	0.2
2	P8	3.0	0.2	0.3	0.3
2	P9	3.0	0.2	0.3	1.7
2	P10	3.0	0.1	0.2	0.3
2	P11	2.9	0.2	0.4	4.9
2	P12	3.1	0.0	0.1	3.2
2	P13	3.2	0.1	0.3	3.0
2	P14	2.9	0.1	0.3	1.2
2	P15	3.1	0.0	0.8	3.6
2	P16	2.9	0.1	0.4	1.9
2	P17	3.1	0.1	0.3	3.7
2	P18	3.1	0.3	1.0	2.2

2	P19	3.1	-0.1	0.4	1.5
2	P20	3.2	-0.1	0.3	1.1
2	P21	3.1	0.1	1.0	3.4
2	P22	3.0	0.0	0.5	1.5
2	P23	3.1	0.0	0.2	1.3
2	P24	3.2	-0.1	0.3	2.2
3	P1	3.2	0.0	0.0	0.5
3	P2	3.2	0.0	0.0	0.5
3	P3	3.2	-0.2	0.0	0.1
3	P4	3.1	0.0	0.0	0.0
3	P5	3.1	-0.1	0.1	0.4
3	P6	3.0	2.0	3.0	1.4
3	P7	3.0	0.0	0.3	1.3
3	P8	3.0	0.1	0.4	1.6
3	P9	3.1	-0.1	0.1	3.4
3	P10	3.0	0.0	0.2	2.3
3	P11	3.0	0.0	0.1	0.9
3	P12	2.8	0.1	0.4	2.0
3	P13	3.1	0.1	0.2	0.5
3	P14	3.0	-0.1	0.2	1.7
3	P15	2.9	0.0	0.3	1.5
3	P16	3.1	-0.2	0.0	1.8
3	P17	3.0	0.2	0.6	0.6
3	P18	3.1	-0.1	0.1	2.5
3	P19	3.0	0.0	0.4	2.1
3	P20	3.0	0.0	0.2	0.9
3	P21	3.1	-0.1	0.3	2.7
3	P22	2.9	0.0	0.5	5.0
3	P23	3.2	0.1	0.0	0.8
3	P24	3.1	0.0	0.2	0.5
4	P1	3.1	0.2	0.6	2.3
4	P2	3.0	0.1	0.4	1.4
4	P3	2.9	0.2	0.5	2.8
4	P4	3.0	0.0	0.2	1.3
4	P5	3.0	0.1	0.3	1.5
4	P6	2.9	-0.1	-0.1	0.0
4	P7	3.0	-0.2	-0.1	0.8
4	P8	2.9	-0.1	0.2	0.4
4	P9	3.1	-0.2	-0.1	0.3
4	P10	3.1	-0.1	-0.1	1.9
4	P11	3.0	0.0	0.1	0.9
4	P12	3.0	-0.1	-0.1	1.8
4	P13	3.2	-0.2	-0.3	0.2
4	P14	3.0	-0.1	-0.1	0.9
4	P15	3.0	-0.1	-0.1	5.7
4	P16	3.1	-0.1	0.0	6.5
4	P17	3.0	-0.2	0.0	4.1
4	P18	3.0	-0.1	-0.1	2.1
4	P19	3.0	-0.1	0.2	3.2

4	P20	3.3	0.0	0.1	0.3
4	P21	3.1	0.1	0.1	3.4
4	P22	3.2	0.2	0.1	2.0
4	P23	3.2	0.0	-0.1	0.5
4	P24	3.4	-0.1	0.0	3.3
5	P1	3.2	0.0	0.3	2.1
5	P2	3.2	-0.2	-0.1	1.4
5	P3	3.1	0.0	0.1	2.4
5	P4	3.1	0.0	0.1	1.0
5	P5	3.0	0.0	0.3	0.2
5	P6	2.9	0.2	0.6	1.2
5	P7	2.9	-0.1	0.2	1.3
5	P8	3.0	0.0	0.6	2.6
5	P9	2.9	0.0	0.2	0.7
5	P10	2.9	0.1	0.5	2.1
5	P11	2.9	0.0	0.4	5.1
5	P12	3.0	0.0	0.1	2.8
5	P13	3.0	0.1	0.1	0.5
5	P14	2.8	0.2	0.4	0.6
5	P15	2.9	0.1	0.4	1.8
5	P16	3.0	0.1	0.4	2.6
5	P17	2.9	0.0	0.4	1.8
5	P18	2.9	0.1	0.5	1.7
5	P19	3.0	0.1	0.3	2.3
5	P20	3.1	0.0	0.6	1.0
5	P21	2.9	0.1	0.5	3.3
5	P22	3.0	0.1	0.2	4.5
5	P23	3.1	-0.1	-0.1	-0.1
5	P24	3.2	-0.2	0.0	0.9
6	P1	3.2	-0.1	0.1	1.8
6	P2	3.0	0.0	0.1	0.2
6	P3	2.9	-0.1	0.2	0.5
6	P4	2.9	0.0	0.2	0.3
6	P5	2.9	0.1	0.1	-0.1
6	P6	2.8	0.2	0.3	0.4
6	P7	2.8	0.2	0.2	0.4
6	P8	2.9	0.1	0.3	0.3
6	P9	2.9	-0.1	0.0	0.2
6	P10	3.0	-0.1	0.1	0.7
6	P11	2.9	-0.1	0.3	0.2
6	P12	2.9	0.0	0.2	0.1
6	P13	3.0	0.0	0.3	0.7
6	P14	2.7	0.0	0.2	0.4
6	P15	2.9	0.0	0.1	0.2
6	P16	2.9	0.0	0.3	1.4
6	P17	2.8	0.0	0.2	0.9
6	P18	2.9	0.1	0.1	2.0
6	P19	3.1	-0.1	-0.1	0.5
6	P20	3.0	0.1	0.4	1.2

6	P21	2.9	0.0	0.2	4.3
6	P22	2.8	0.2	0.2	3.1
6	P23	3.1	0.2	0.1	-0.2
6	P24	3.2	0.0	0.0	0.3
7	P1	3.2	0.0	0.1	2.3
7	P2	3.2	0.0	0.5	3.9
7	P3	3.1	0.0	0.5	3.0
7	P4	3.2	-0.1	0.0	0.3
7	P5	3.0	0.0	0.2	0.3
7	P6	4.5	0.2	1.7	0.1
7	P7	2.8	0.0	0.1	0.5
7	P8	3.0	-0.1	0.3	0.3
7	P9	4.7	0.1	0.4	0.4
7	P10	2.9	0.0	0.3	1.5
7	P11	2.9	0.3	0.8	4.9
7	P12	3.0	0.0	0.7	5.2
7	P13	3.2	0.0	0.4	0.4
7	P14	2.9	0.0	0.2	0.3
7	P15	2.9	0.0	0.6	0.7
7	P16	2.9	0.1	0.5	2.1
7	P17	2.9	0.0	0.3	0.3
7	P18	2.8	0.1	0.5	1.1
7	P19	3.0	0.0	1.0	6.6
7	P20	3.0	0.1	1.0	3.8
7	P21	2.9	0.1	0.8	2.3
7	P22	2.8	0.1	0.4	2.0
7	P23	3.3	-0.1	1.5	1.7
7	P24	3.1	0.2	1.6	6.4
8	P1	3.4	0.1	0.1	4.2
8	P2	3.1	0.2	0.4	1.6
8	P3	3.0	0.0	0.2	0.5
8	P4	3.2	-0.1	0.1	0.6
8	P5	3.1	0.0	0.2	0.1
8	P6	3.0	0.0	0.2	0.1
8	P7	2.9	0.0	0.3	0.4
8	P8	3.0	0.0	0.3	1.3
8	P9	3.0	-0.1	0.1	0.4
8	P10	2.9	0.2	0.2	1.9
8	P11	3.0	0.0	0.1	1.3
8	P12	2.9	0.1	0.2	1.3
8	P13	3.2	-0.1	0.2	0.2
8	P14	2.8	0.0	0.0	1.4
8	P15	3.0	0.0	0.1	0.1
8	P16	2.9	0.2	0.0	0.2
8	P17	2.9	0.2	0.2	3.2
8	P18	2.9	0.2	0.2	0.7
8	P19	3.0	0.1	0.4	0.5
8	P20	2.9	0.2	0.5	0.7
8	P21	3.0	0.2	0.4	0.7

8	P22	3.0	0.4	0.6	0.2
8	P23	3.1	0.2	0.3	0.9
8	P24	3.1	0.2	0.4	1.6

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: 2010-12-14, Next Cal: 2011-12-13

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