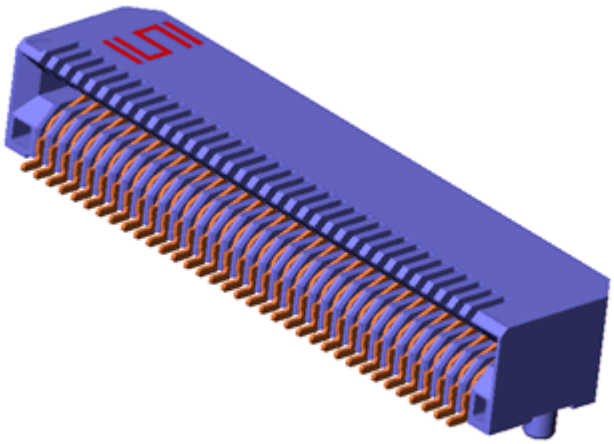
Project Number: NA	Tracking Code: TC0312--0104		
Requested by: Jan Hrouda	Date: 3/20/2003	Product Rev: A	
Part #: MECT-150-01-M-D-RA1	Lot #: Sample	Tech: Troy Cook	Eng: John Tozier
Part description: 0.8 mm [0.031”] Right Angled Edge Card Assembly			Qty to test: 50
Test Start: 02/25/2003	Test Completed: 3/31/2003		



LLCR Durability and Gap Measurements (to 500 cycles) with Environmental Stresses
Summary Report

PART DESCRIPTION

MECT-150-01-M-D-RA1

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: LLCR Durability and Gap Measurements (to 500 cycles) with Environmental Stresses

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 testing were cleaned according to TLWI-0001:
   a) Sample test boards are to be ultrasonically cleaned after test lead attachment, preparation and/or soldering using the following process.
   b) Sample test boards are immersed into Branson 3510 cleaner containing Kyzen Ionox HC1 (or equivalent) with the following conditions:
      i) Temperature: ----------55° C+/- 5° C
      ii) Frequency:----------40 KHz
      iii) Immersion Time: ----------5 to 10 Minutes
      iv) Sample test boards are removed and placed into the Branson 3510 cleaner containing deionized water with the following conditions:
      v) Temperature: ----------55° C +/- 5° C
      vi) Frequency:----------40 KHz
      vii) Immersion Time: ----------5 to 10 Minutes
      viii) Sample test boards are removed and placed in a beaker positioned on a hot plate with a magnetic stirrer containing deionized water warmed to 55° C +/- 5° C for 1/2 to 1 minute
   c) Upon removal, the sample test boards are rinsed for 1/2 to 1 minute in room temperature free flowing deionized water.
   d) After the final rinse, the sample test boards are dried in an air-circulating oven for 10 to 15 minutes at 50° C +/- 5° C
   e) Sample test boards are then allowed to set and recover to room ambient condition prior to testing.
4) Parts not intended for testing LLCR and DWV/IR are visually inspected and cleaned if necessary.
5) Any additional preparation will be noted in the individual test procedures.

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

FLOWCHARTS

TEST STEP	GROUP A 5 Boards 500 Cycles	GROUP B 200 Points 500 Cycles
01	Contact Gaps	LLCR-1
02	200 Cycles	Data Review
03	Contact Gaps	200 Cycles
04	Data Review	LLCR-2
05	300 Cycles	Data Review
06	Contact Gaps	300 Cycles
07	Data Review	LLCR-3
08	400 Cycles	Data Review
09	Contact Gaps	400 Cycles
10	Data Review	LLCR-4
11	500 Cycles	Data Review
12	Contact Gaps	500 Cycles
13	Data Review	LLCR-5
14	Thermal Aging (Mated)	Data Review
15	Contact Gaps	Thermal Age
16	Data Review	LLCR-6
17	Humidity (Mated)	Data Review
18	Contact Gaps	Cyclic Humidity
19		LLCR-7

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

ATTRIBUTE DEFINITION

Following is a brief, simplified description of attributes.

THERMAL AGING:

1) EIA-364-17, *Temperature Life with or without Electrical Load Test Procedure for Electrical Connectors.*
   a) Test Condition 4 at 105° C.
   b) Test Time Condition B for 250 hours.
2) Connectors are mated.

CYCLIC HUMIDITY:

1) Reference document: EIA-364-31, *Humidity Test Procedure for Electrical Connectors.*
   a) Test Condition B, 240 Hours.
   b) Method III, +25° C to + 65° C, 90% to 98% Relative Humidity excluding sub-cycles 7a and 7b.
2) Connectors are mated.

CONTACT GAPS:

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

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

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

RESULTS

Contact Gaps

- **Initial**
  - **Min ---------- 0.4323 mm**
  - **Max ---------- 0.5147 mm**
- **After 200 Cycles**
  - **Min ---------- 0.4920 mm**
  - **Max ---------- 0.5618 mm**
- **After 300 Cycles**
  - **Min ---------- 0.5061 mm**
  - **Max ---------- 0.5714 mm**
- **After 400 Cycles**
  - **Min ---------- 0.5119 mm**
  - **Max ---------- 0.5814 mm**
- **After 500 Cycles**
  - **Min ---------- 0.5104 mm**
  - **Max ---------- 0.5818 mm**
- **Thermal**
  - **Min ---------- 0.6523 mm**
  - **Max ---------- 0.7075 mm**
- **Humidity**
  - **Min ---------- 0.6620 mm**
  - **Max ---------- 0.7141 mm**

LLCR Durability (200 LLCR test points)

- **Initial ---------- 15.1 mOhms Max**
- **Durability, 200 Cycles**
  - **<= +5.0 mOhms ---------- 200 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 0 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
- **Durability, 300 Cycles**
  - **<= +5.0 mOhms ---------- 200 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 0 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
- **Durability, 400 Cycles**
  - **<= +5.0 mOhms ---------- 200 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 0 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
- **Durability, 500 Cycles**
  - **<= +5.0 mOhms ---------- 200 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 0 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**

- **Thermal**
  - **<= +5.0 mOhms ---------- 200 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 0 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**
  -
- **Humidity**
  - **<= +5.0 mOhms ---------- 200 Points ---------- Stable**
  - **+5.1 to +10.0 mOhms ---------- 0 Points ---------- Minor**
  - **+10.1 to +15.0 mOhms ---------- 0 Points ---------- Acceptable**
  - **+15.1 to +50.0 mOhms ---------- 0 Points ---------- Marginal**
  - **+50.1 to +2000 mOhms ---------- 0 Points ---------- Unstable**
  - **>+2000 mOhms ---------- 0 Points ---------- Open Failure**

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

DATA SUMMARIES

CONTACT GAPS:

Initial

Measurements in mm

	B1	B2	B3	B4	B5
Minimum	0.4457	0.4323	0.4543	0.4527	0.4519
Maximum	0.5120	0.5147	0.5141	0.4998	0.5085
Average	*0.4655*	*0.4572*	*0.4733*	*0.4732*	*0.4704*
St. Dev.	*0.0155*	*0.0157*	*0.0137*	*0.0123*	*0.0128*
Count	*50*	*50*	*50*	*50*	*50*

200 Cycles

Measurements in mm

	B1	B2	B3	B4	B5
Minimum	0.4927	0.4960	0.4920	0.5090	0.4995
Maximum	0.5522	0.5394	0.5548	0.5618	0.5420
Average	*0.5115*	*0.5144*	*0.5164*	*0.5260*	*0.5148*
St. Dev.	*0.0126*	*0.0122*	*0.0125*	*0.0136*	*0.0096*
Count	*50*	*50*	*50*	*50*	*50*

300 Cycles

Measurements in mm

	B1	B2	B3	B4	B5
Minimum	0.5061	0.5083	0.5067	0.5243	0.5095
Maximum	0.5714	0.5537	0.5647	0.5712	0.5503
Average	*0.5265*	*0.5283*	*0.5268*	*0.5398*	*0.5235*
St. Dev.	*0.0136*	*0.0126*	*0.0123*	*0.0119*	*0.0097*
Count	*50*	*50*	*50*	*50*	*50*

400 Cycles

Measurements in mm

	B1	B2	B3	B4	B5
Minimum	0.5126	0.5119	0.5159	0.5256	0.5120
Maximum	0.5814	0.5553	0.5754	0.5739	0.5548
Average	*0.5316*	*0.5295*	*0.5330*	*0.5410*	*0.5266*
St. Dev.	*0.0139*	*0.0121*	*0.0141*	*0.0120*	*0.0099*
Count	*50*	*50*	*50*	*50*	*50*

500 Cycles

Measurements in mm

	B1	B2	B3	B4	B5
Minimum	0.5162	0.5116	0.5124	0.5236	0.5104
Maximum	0.5818	0.5724	0.5713	0.5701	0.5518
Average	*0.5344*	*0.5332*	*0.5301*	*0.5388*	*0.5256*
St. Dev.	*0.0146*	*0.0155*	*0.0142*	*0.0116*	*0.0092*
Count	*50*	*50*	*50*	*50*	*50*

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031"] Right Angled Edge Card Assembly	

DATA SUMMARIES Continued

CONTACT GAPS:

Thermal

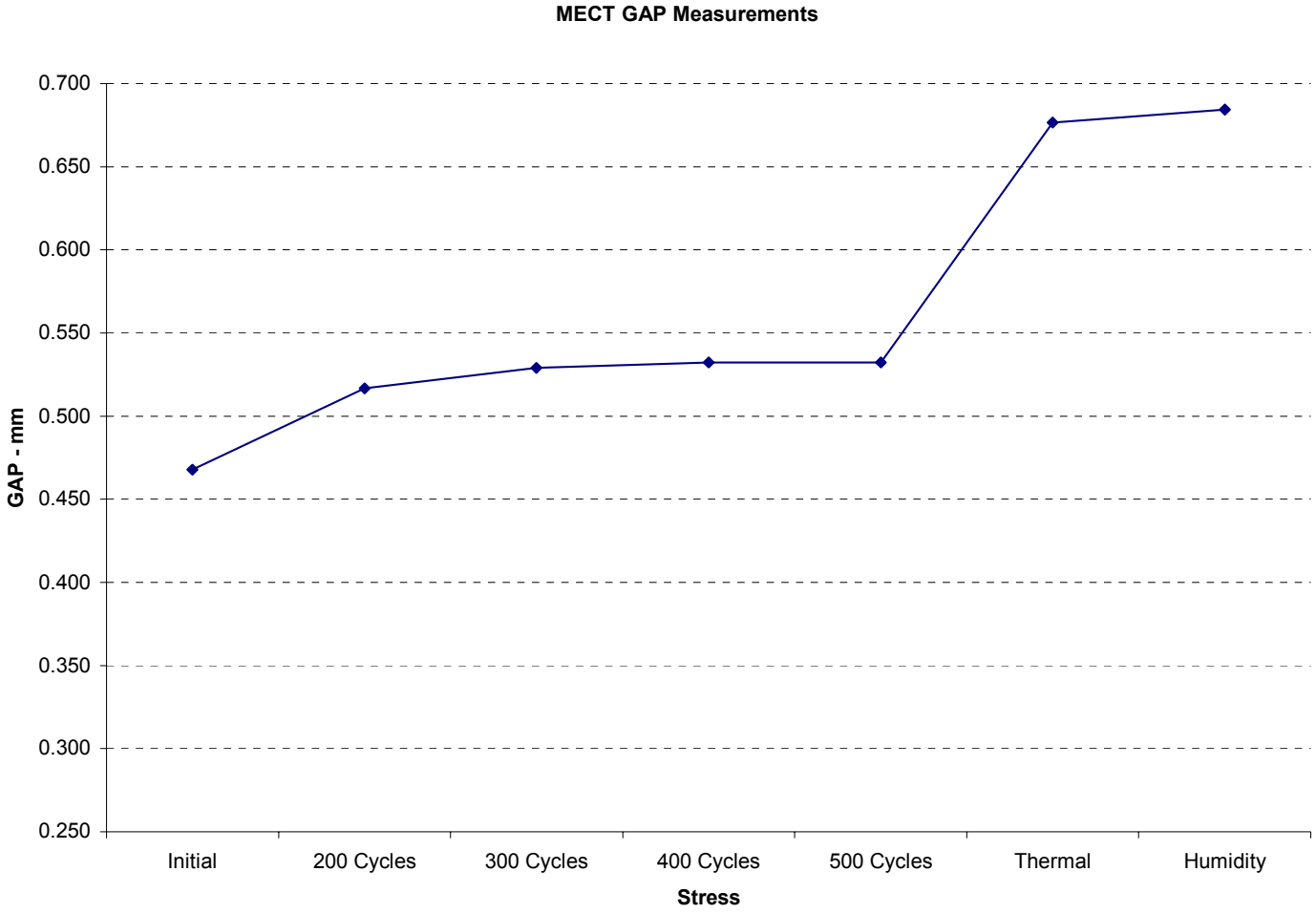
Measurements in mm

	B1	B2	B3	B4	B5
Minimum	0.6612	0.6676	0.6651	0.6741	0.6523
Maximum	0.7054	0.7075	0.7022	0.7032	0.6742
Average	*0.6753*	*0.6797*	*0.6801*	*0.6843*	*0.6632*
St. Dev.	*0.0083*	*0.0093*	*0.0084*	*0.0070*	*0.0052*
Count	*50*	*50*	*50*	*50*	*50*

Humidity

Measurements in mm

	B1	B2	B3	B4	B5
Minimum	0.6666	0.6735	0.6769	0.6837	0.6620
Maximum	0.7130	0.7141	0.7082	0.7115	0.6812
Average	*0.6803*	*0.6881*	*0.6893*	*0.6934*	*0.6706*
St. Dev.	*0.0086*	*0.0093*	*0.0076*	*0.0066*	*0.0049*
Count	*50*	*50*	*50*	*50*	*50*



Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031"] Right Angled Edge Card Assembly	

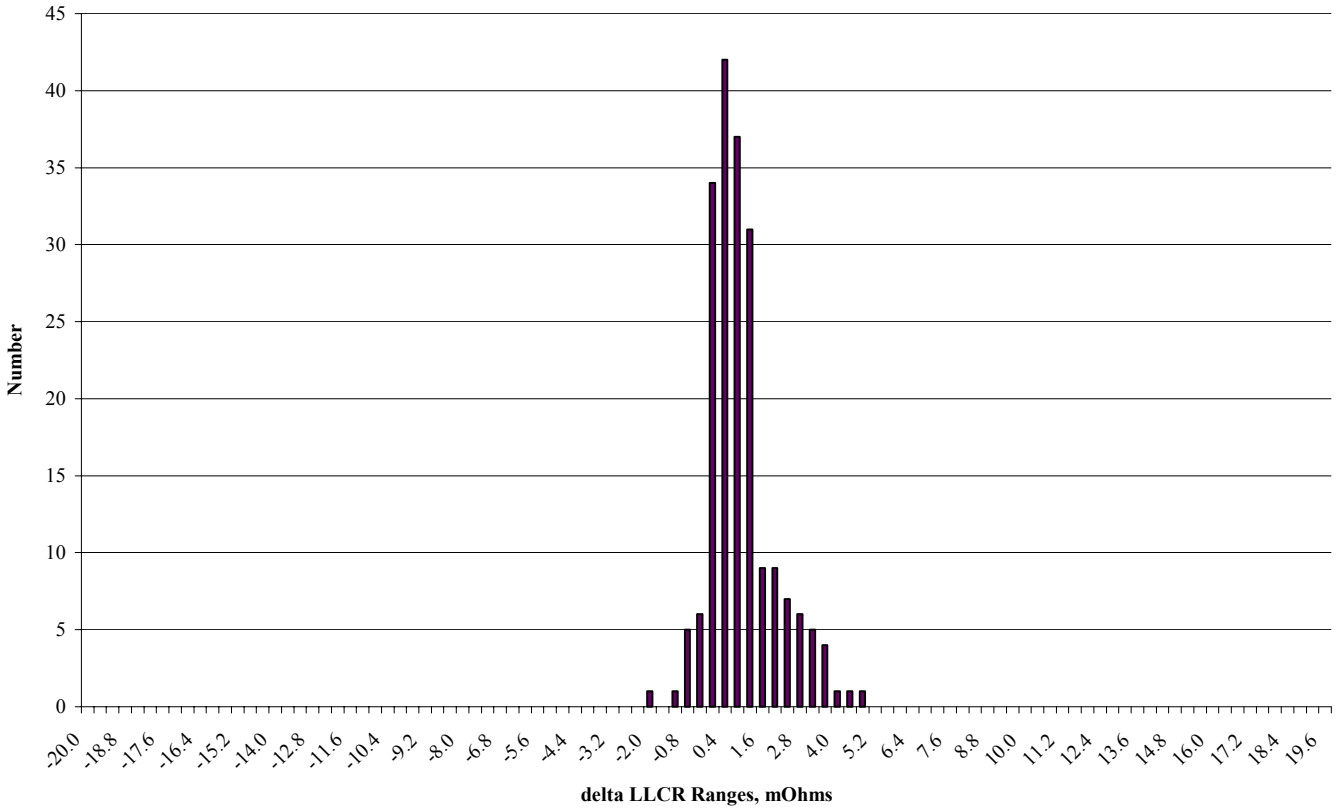
DATA SUMMARIES Continued

LLCR:

1) A total of 200 points were measured.
2) EIA-364-23, *Low Level Contact Resistance Test Procedure for Electrical Connectors and Sockets.*
3) A computer program, *LLCR 221.exe*, ensures repeatability for data acquisition.
4) The following guidelines are used to categorize the changes in LLCR as a result from stressing.
   a) <= +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	Mar. 03 2003	Mar. 04 2003	Mar. 04 2003	Mar. 04 2003	Mar. 04 2003	Mar. 17 2003	Mar. 31 2003
Room Temp C	21	23	22	22	21	20	20
RH	27%	23%	24%	26%	28%	48%	26%
Name	Troy Cook	Troy Cook	Troy Cook	Troy Cook	Troy Cook	Troy Cook	Troy Cook
mOhm values	**Actual Initial**	**Delta 200 Cycles**	**Delta 300 Cycles**	**Delta 400 Cycles**	**Delta 500 Cycles**	**Delta Thermal**	**Delta Humidity**
Average	12.4	-0.3	-0.3	-0.3	-0.3	0.3	0.7
St. Dev.	1.4	0.5	0.5	0.5	0.5	0.7	1.1
Min	10.5	-3.5	-3.3	-3.4	-3.5	-2.4	-2.3
Max	15.1	0.6	0.7	0.9	0.5	2.5	4.8
Count	200	200	200	200	200	200	200

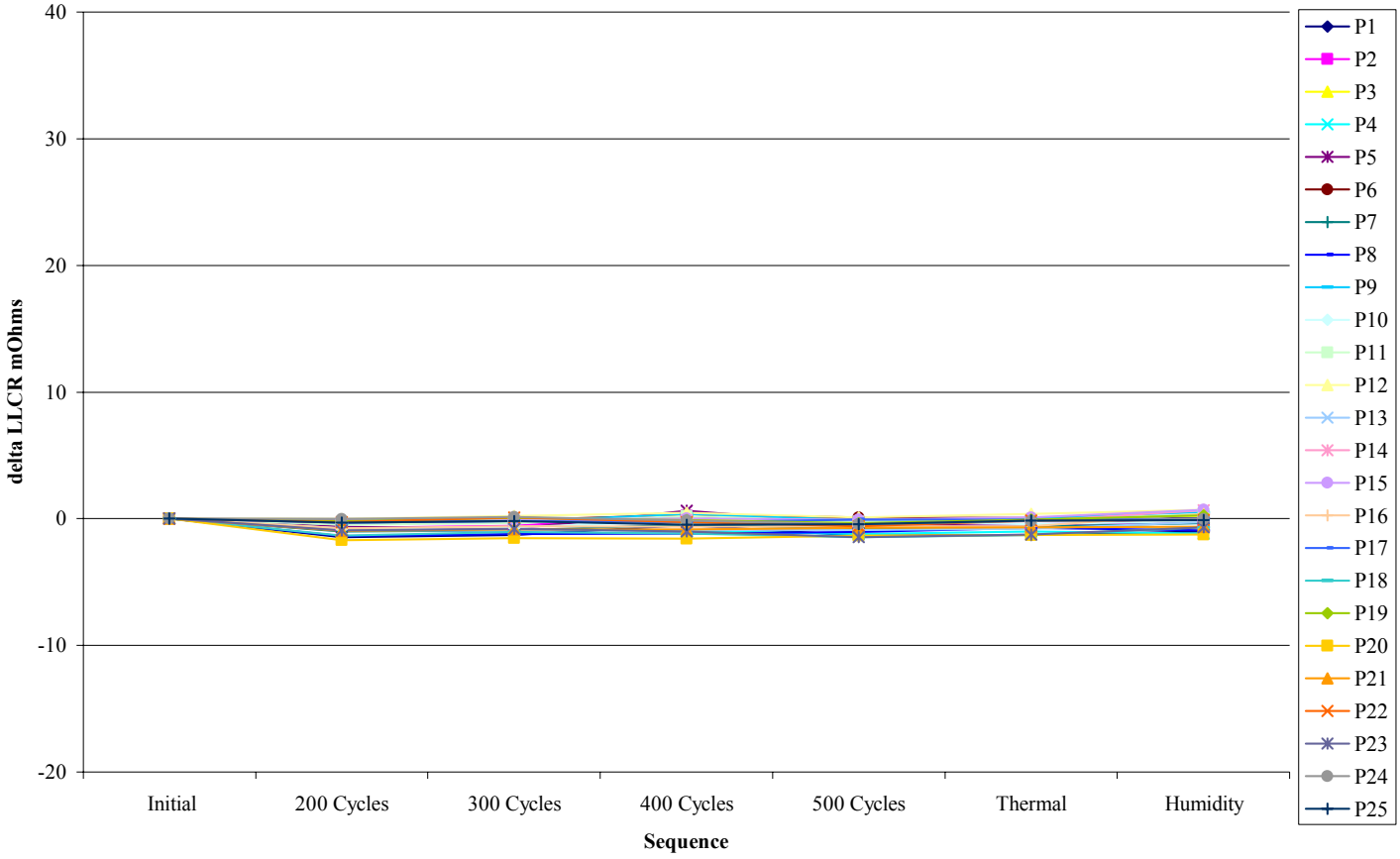
Count, Humidity



Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

DATA SUMMARIES Continued

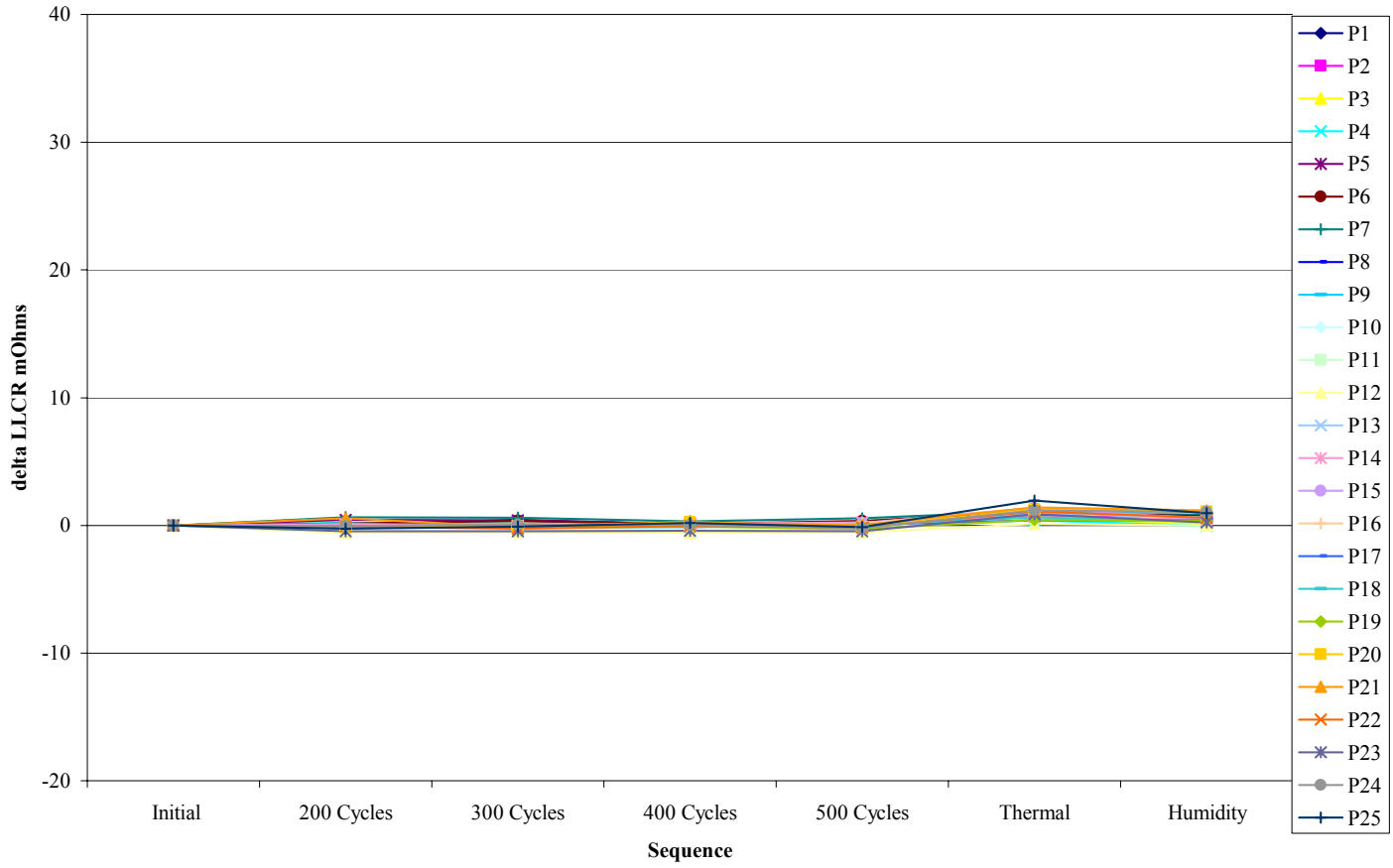
Board #1



Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

DATA SUMMARIES Continued

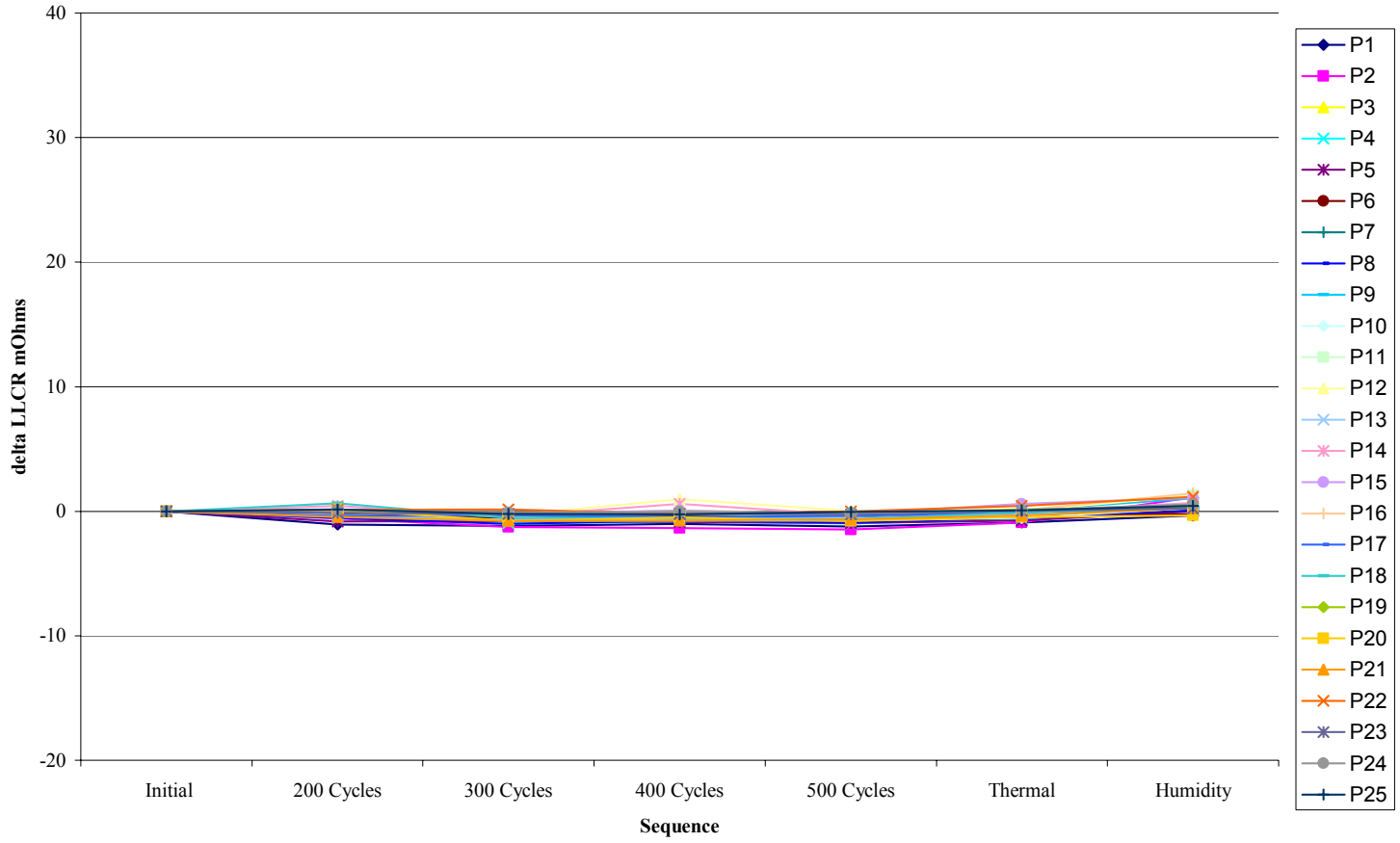
Board #2



Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

DATA SUMMARIES Continued

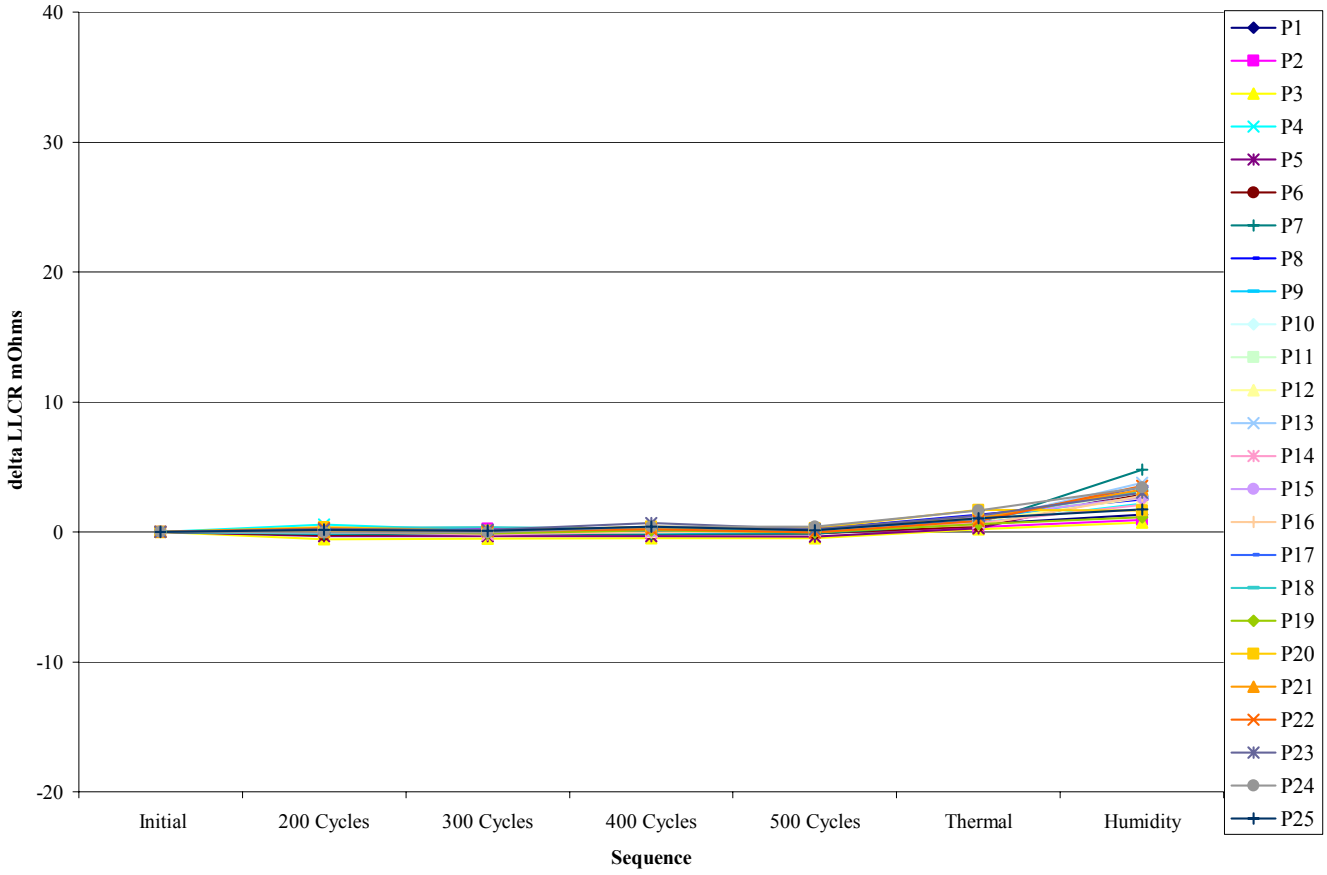
Board #3



Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

DATA SUMMARIES Continued

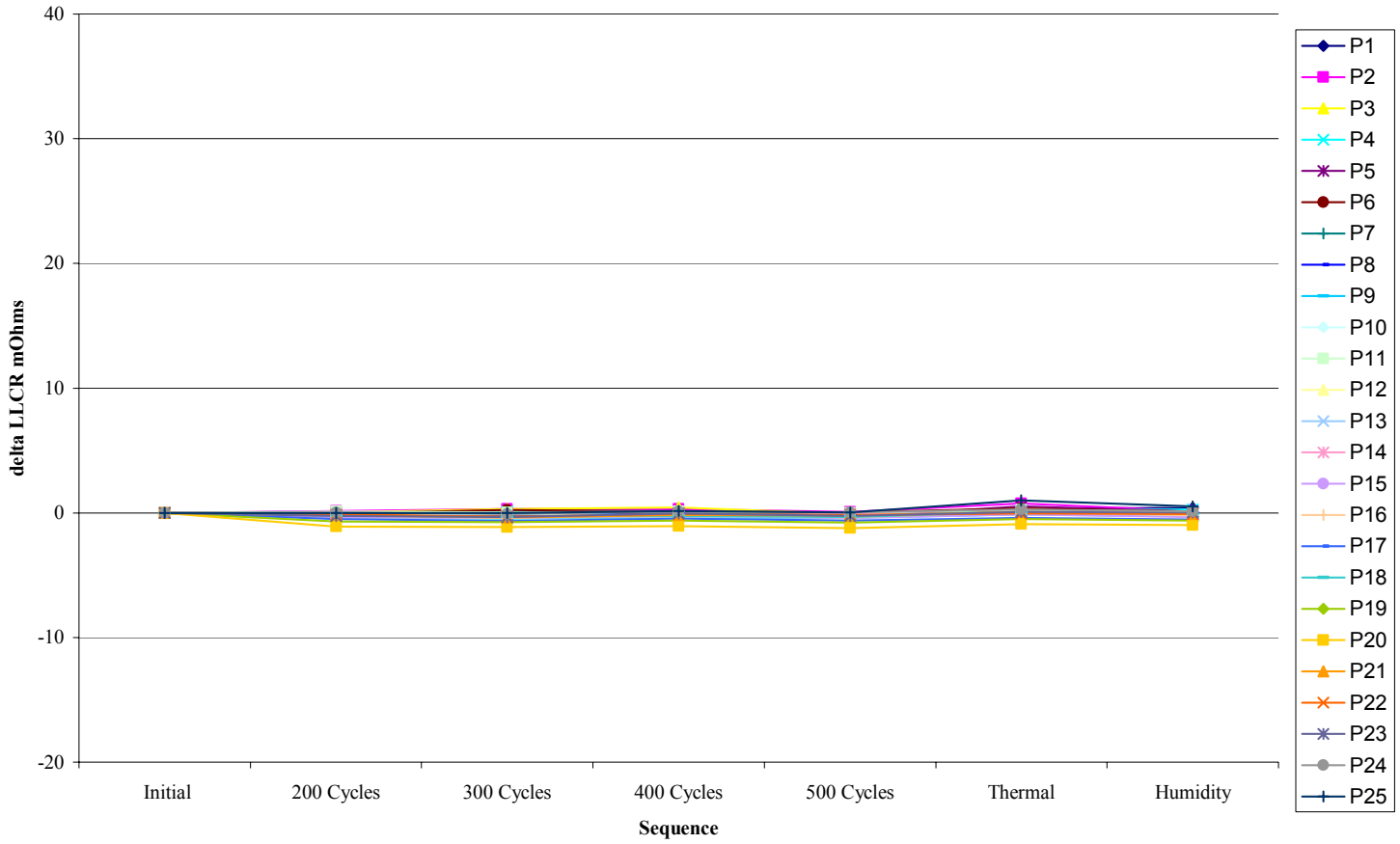
Board #4



Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

DATA SUMMARIES Continued

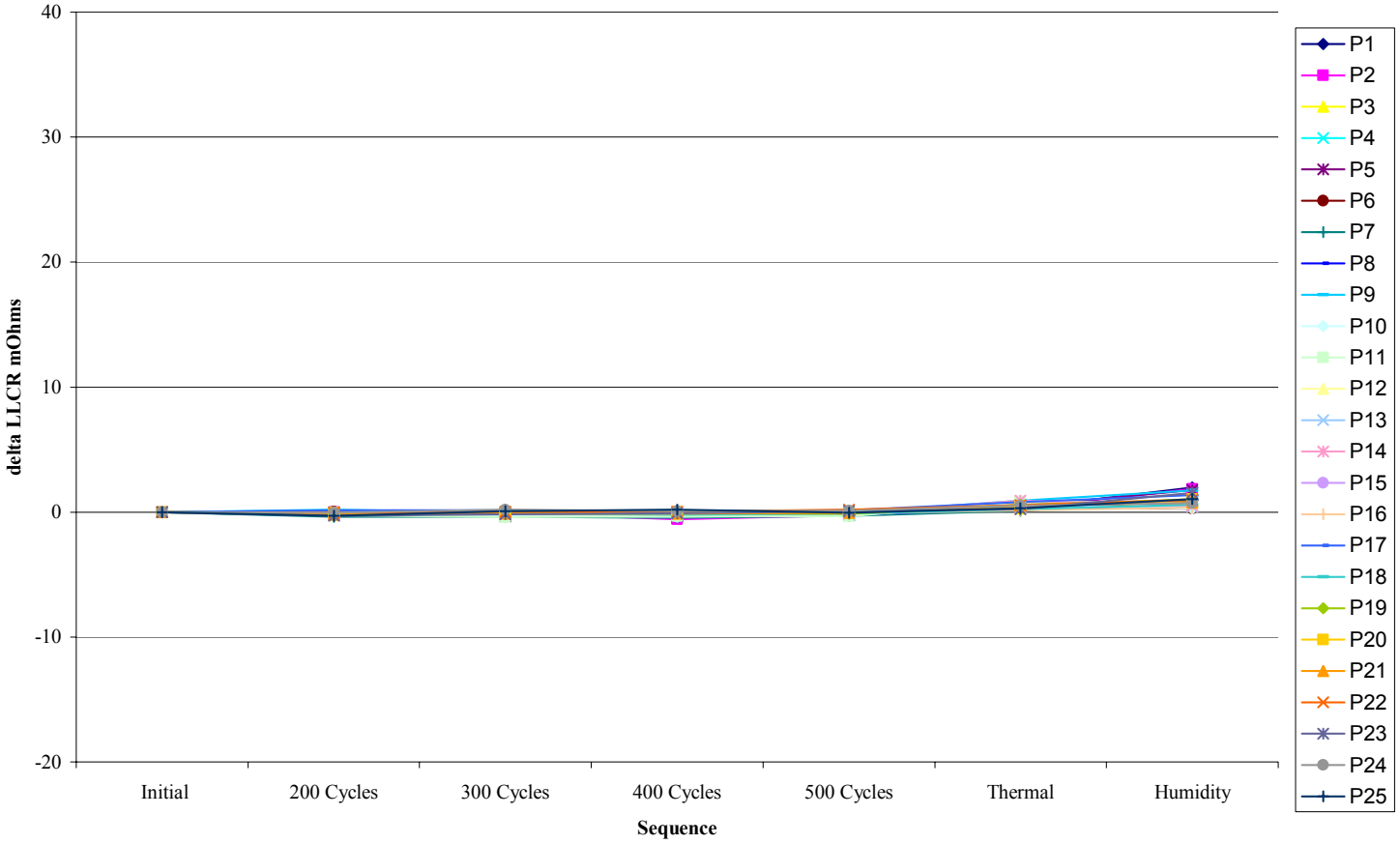
Board #5



Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

DATA SUMMARIES Continued

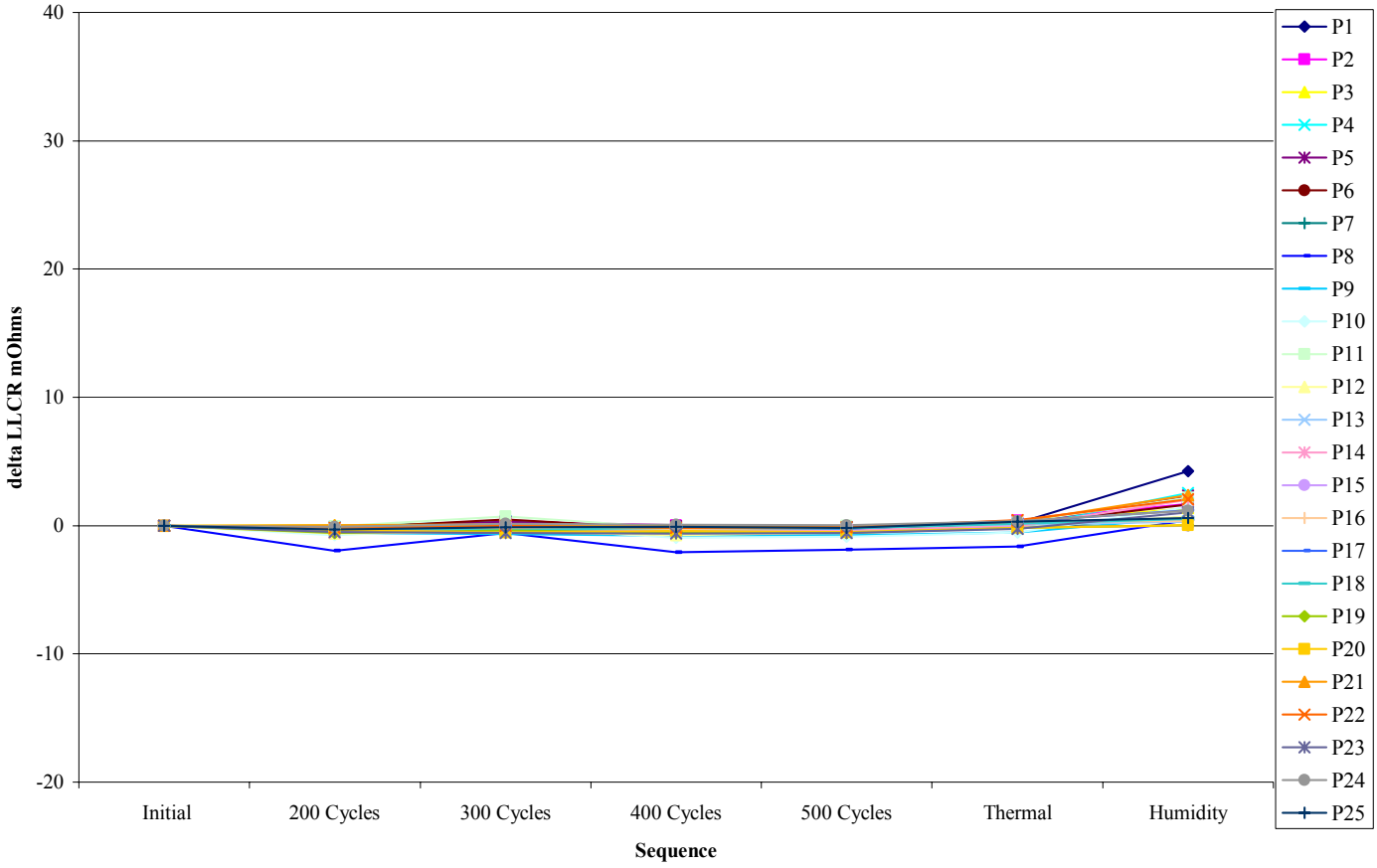
Board #6



Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

DATA SUMMARIES Continued

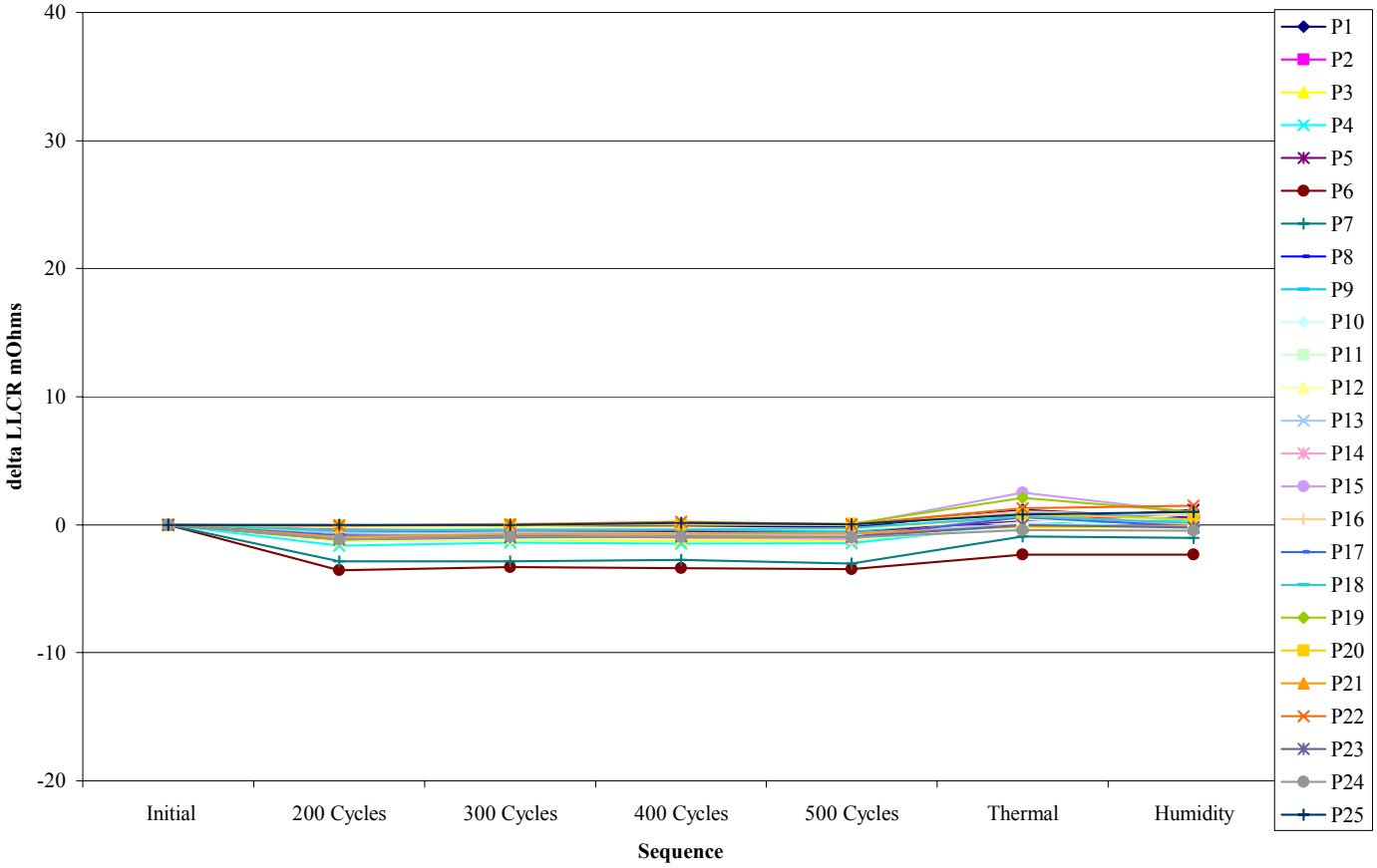
Board #7



Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

DATA SUMMARIES Continued

Board #8



Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031"] Right Angled Edge Card Assembly	

DATA

CONTACT GAPS

Test Date:	2/25/2003
Operator:	GL
Temperature (C):	23
Humidity (RH):	15%
Equipment ID:	OGP-01

Used In:	MECT

Initial

Measurements in mm

Sample#	B1	B2	B3	B4	B5
1	0.4853	0.4742	0.5051	0.4975	0.4835
2	0.4851	0.4764	0.5045	0.4998	0.5020
3	0.4772	0.4705	0.4983	0.4890	0.4870
4	0.4718	0.4724	0.5022	0.4988	0.5085
5	0.4687	0.4655	0.5141	0.4865	0.4844
6	0.4711	0.4730	0.4811	0.4796	0.4823
7	0.4993	0.4470	0.4707	0.4764	0.4773
8	0.4538	0.4473	0.4647	0.4649	0.4691
9	0.4482	0.4419	0.4712	0.4668	0.4658
10	0.4604	0.4515	0.4668	0.4732	0.4670
11	0.4487	0.4486	0.4789	0.4864	0.4712
12	0.4548	0.4535	0.4605	0.4781	0.4615
13	0.4457	0.4650	0.4543	0.4629	0.4519
14	0.4495	0.4437	0.4642	0.4615	0.4608
15	0.4880	0.4363	0.4616	0.4680	0.4595
16	0.4590	0.4569	0.4733	0.4625	0.4697
17	0.4707	0.4643	0.4649	0.4675	0.4556
18	0.4587	0.4414	0.4863	0.4880	0.4913
19	0.4608	0.4529	0.4606	0.4681	0.4551
20	0.4670	0.4588	0.4736	0.4914	0.4635
21	0.4724	0.4818	0.4792	0.4661	0.4715
22	0.4796	0.4894	0.4679	0.4782	0.4657
23	0.4884	0.4769	0.4723	0.4725	0.4728
24	0.4814	0.4744	0.4871	0.4784	0.4805
25	0.4692	0.4672	0.4876	0.4793	0.4742
26	0.4683	0.4744	0.4899	0.4991	0.4929
27	0.4547	0.4616	0.4699	0.4634	0.4702
28	0.4461	0.4464	0.4652	0.4623	0.4523
29	0.4581	0.4541	0.4620	0.4704	0.4676
30	0.4857	0.4437	0.4680	0.4619	0.4646
31	0.4574	0.4543	0.4676	0.4732	0.4793
32	0.4496	0.4462	0.4556	0.4616	0.4572
33	0.4522	0.4460	0.4734	0.4763	0.4746
34	0.4492	0.5147	0.4682	0.4587	0.4573
35	0.4473	0.4442	0.4590	0.4527	0.4602
36	0.4505	0.4408	0.4715	0.4674	0.4672
37	0.4658	0.4381	0.4606	0.4620	0.4585
38	0.4934	0.4323	0.4636	0.4628	0.4586
39	0.4609	0.4498	0.4613	0.4573	0.4628
40	0.5120	0.4461	0.4740	0.4946	0.4605

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031"] Right Angled Edge Card Assembly	

41	0.4506		0.4446		0.4865		0.4807		0.4820	
42	0.4612		0.4666		0.4634		0.4590		0.4667	
43	0.4499		0.4437		0.4594		0.4581		0.4588	
44	0.4462		0.4420		0.4677		0.4653		0.4669	
45	0.4615		0.4468		0.4624		0.4695		0.4659	
46	0.4618		0.4578		0.4680		0.4673		0.4527	
47	0.4594		0.4524		0.4647		0.4646		0.4708	
48	0.4681		0.4562		0.4715		0.4716		0.4729	
49	0.4749		0.4637		0.4786		0.4786		0.4902	
50	0.4764		0.4609		0.4798		0.4817		0.4768	

Test Date:	2/28/2003
Operator:	GL
Temperature (C):	24
Humidity (RH):	23%
Equipment ID:	OGP-01

Used In:	MECT

200 Cycles

Measurements in mm

Sample#	B1		B2		B3		B4		B5	
1	0.5379		0.5335		0.5548		0.5618		0.5328	
2	0.5340		0.5303		0.5506		0.5557		0.5420	
3	0.5291		0.5255		0.5394		0.5431		0.5252	
4	0.5227		0.5246		0.5381		0.5401		0.5325	
5	0.5161		0.5168		0.5374		0.5334		0.5254	
6	0.5143		0.5157		0.5218		0.5291		0.5219	
7	0.5227		0.5047		0.5132		0.5261		0.5173	
8	0.5040		0.5044		0.5278		0.5195		0.5125	
9	0.4995		0.5037		0.5118		0.5210		0.5079	
10	0.5067		0.5045		0.5106		0.5200		0.5084	
11	0.4963		0.5022		0.5128		0.5196		0.5059	
12	0.4990		0.5072		0.5037		0.5160		0.5060	
13	0.4941		0.5047		0.5018		0.5113		0.4995	
14	0.4969		0.5048		0.5078		0.5127		0.5060	
15	0.5107		0.4991		0.5094		0.5184		0.5082	
16	0.5037		0.5113		0.5154		0.5137		0.5164	
17	0.5029		0.5159		0.5084		0.5169		0.5042	
18	0.5028		0.5010		0.5167		0.5165		0.5190	
19	0.5037		0.5064		0.5075		0.5178		0.5064	
20	0.5093		0.5153		0.5123		0.5249		0.5129	
21	0.5180		0.5327		0.5199		0.5237		0.5202	
22	0.5151		0.5360		0.5154		0.5411		0.5185	
23	0.5522		0.5379		0.5279		0.5587		0.5270	
24	0.5402		0.5252		0.5291		0.5482		0.5258	
25	0.5265		0.5211		0.5250		0.5415		0.5215	
26	0.5195		0.5207		0.5243		0.5435		0.5218	
27	0.5125		0.5204		0.5135		0.5274		0.5178	
28	0.5060		0.5074		0.5118		0.5275		0.5037	
29	0.5113		0.5119		0.5097		0.5283		0.5160	
30	0.5167		0.5064		0.5105		0.5095		0.5124	
31	0.5058		0.5094		0.4920		0.5223		0.5185	
32	0.5069		0.5061		0.5032		0.5156		0.5033	
33	0.5087		0.5032		0.5107		0.5196		0.5095	
34	0.5057		0.5377		0.5121		0.5154		0.5074	

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031"] Right Angled Edge Card Assembly	

35	0.5051		0.5055		0.5088		0.5110		0.5064	
36	0.5029		0.5050		0.5137		0.5183		0.5134	
37	0.5085		0.5012		0.5078		0.5161		0.5067	
38	0.5129		0.4960		0.5081		0.5090		0.5050	
39	0.5086		0.5068		0.5049		0.5093		0.5065	
40	0.5284		0.5056		0.5075		0.5182		0.5051	
41	0.5032		0.5048		0.5236		0.5277		0.5225	
42	0.5049		0.5135		0.5072		0.5128		0.5110	
43	0.4978		0.5048		0.5044		0.5125		0.5061	
44	0.4927		0.5054		0.5111		0.5201		0.5124	
45	0.4959		0.5121		0.5079		0.5251		0.5107	
46	0.5027		0.5215		0.5141		0.5253		0.5049	
47	0.5059		0.5234		0.5130		0.5272		0.5140	
48	0.5138		0.5308		0.5198		0.5314		0.5175	
49	0.5163		0.5394		0.5299		0.5421		0.5348	
50	0.5230		0.5389		0.5340		0.5518		0.5279	

Test Date:	3/3/2003
Operator:	GL
Temperature (C):	24
Humidity (RH):	21%
Equipment ID:	OGP-01

Used In:	MECT

300 Cycles

Measurements in mm

Sample#	B1		B2		B3		B4		B5	
1	0.5510		0.5537		0.5647		0.5712		0.5426	
2	0.5461		0.5488		0.5588		0.5657		0.5503	
3	0.5429		0.5423		0.5477		0.5527		0.5355	
4	0.5329		0.5418		0.5451		0.5503		0.5416	
5	0.5285		0.5308		0.5464		0.5434		0.5338	
6	0.5282		0.5281		0.5304		0.5375		0.5312	
7	0.5281		0.5213		0.5227		0.5380		0.5267	
8	0.5151		0.5210		0.5166		0.5303		0.5213	
9	0.5093		0.5198		0.5197		0.5318		0.5189	
10	0.5161		0.5233		0.5160		0.5318		0.5164	
11	0.5105		0.5200		0.5199		0.5311		0.5143	
12	0.5066		0.5247		0.5094		0.5282		0.5162	
13	0.5061		0.5209		0.5067		0.5243		0.5095	
14	0.5087		0.5196		0.5111		0.5260		0.5132	
15	0.5236		0.5149		0.5152		0.5307		0.5158	
16	0.5191		0.5272		0.5246		0.5273		0.5229	
17	0.5233		0.5318		0.5174		0.5294		0.5128	
18	0.5143		0.5170		0.5251		0.5347		0.5270	
19	0.5072		0.5217		0.5187		0.5337		0.5143	
20	0.5252		0.5288		0.5251		0.5379		0.5229	
21	0.5295		0.5467		0.5336		0.5388		0.5287	
22	0.5336		0.5509		0.5289		0.5539		0.5295	
23	0.5714		0.5530		0.5365		0.5698		0.5352	
24	0.5573		0.5402		0.5387		0.5580		0.5352	
25	0.5435		0.5343		0.5374		0.5529		0.5276	
26	0.5379		0.5339		0.5351		0.5549		0.5298	
27	0.5294		0.5333		0.5255		0.5408		0.5260	
28	0.5215		0.5189		0.5219		0.5402		0.5125	

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031"] Right Angled Edge Card Assembly	

29	0.5263		0.5232		0.5201		0.5430		0.5254
30	0.5309		0.5171		0.5211		0.5352		0.5228
31	0.5234		0.5205		0.5222		0.5409		0.5267
32	0.5205		0.5187		0.5140		0.5334		0.5135
33	0.5232		0.5139		0.5207		0.5377		0.5179
34	0.5196		0.5506		0.5211		0.5335		0.5177
35	0.5191		0.5182		0.5201		0.5289		0.5187
36	0.5186		0.5187		0.5256		0.5369		0.5224
37	0.5244		0.5122		0.5189		0.5328		0.5152
38	0.5254		0.5083		0.5185		0.5283		0.5117
39	0.5202		0.5189		0.5178		0.5256		0.5142
40	0.5393		0.5163		0.5163		0.5320		0.5131
41	0.5174		0.5148		0.5372		0.5420		0.5300
42	0.5274		0.5236		0.5200		0.5280		0.5177
43	0.5134		0.5174		0.5191		0.5284		0.5133
44	0.5098		0.5184		0.5267		0.5332		0.5192
45	0.5188		0.5243		0.5239		0.5389		0.5187
46	0.5241		0.5330		0.5271		0.5391		0.5122
47	0.5300		0.5339		0.5270		0.5394		0.5241
48	0.5376		0.5409		0.5325		0.5458		0.5272
49	0.5421		0.5500		0.5445		0.5555		0.5442
50	0.5463		0.5516		0.5482		0.5649		0.5372

Test Date:	3/4/2003
Operator:	GL
Temperature (C):	23
Humidity (RH):	24%
Equipment ID:	OGP-01

Used In:	MECT

400 Cycles

Measurements in mm

Sample#	B1		B2		B3		B4		B5	
1	0.5558		0.5553		0.5754		0.5739		0.5492	
2	0.5533		0.5504		0.5684		0.5689		0.5548	
3	0.5496		0.5401		0.5595		0.5498		0.5381	
4	0.5409		0.5429		0.5543		0.5523		0.5456	
5	0.5338		0.5341		0.5516		0.5449		0.5363	
6	0.5343		0.5285		0.5384		0.5443		0.5343	
7	0.5387		0.5226		0.5294		0.5394		0.5299	
8	0.5215		0.5214		0.5172		0.5306		0.5242	
9	0.5166		0.5214		0.5255		0.5326		0.5206	
10	0.5260		0.5200		0.5232		0.5287		0.5203	
11	0.5126		0.5180		0.5245		0.5297		0.5150	
12	0.5197		0.5210		0.5160		0.5263		0.5155	
13	0.5141		0.5224		0.5159		0.5256		0.5120	
14	0.5163		0.5202		0.5200		0.5264		0.5173	
15	0.5295		0.5140		0.5238		0.5317		0.5195	
16	0.5251		0.5295		0.5291		0.5273		0.5266	
17	0.5270		0.5335		0.5257		0.5281		0.5155	
18	0.5268		0.5181		0.5338		0.5350		0.5287	
19	0.5284		0.5217		0.5263		0.5367		0.5170	
20	0.5317		0.5303		0.5346		0.5419		0.5249	
21	0.5390		0.5466		0.5438		0.5401		0.5298	
22	0.5438		0.5522		0.5401		0.5543		0.5287	

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031"] Right Angled Edge Card Assembly	

23	0.5814		0.5543		0.5556		0.5697		0.5372
24	0.5662		0.5427		0.5542		0.5584		0.5374
25	0.5501		0.5369		0.5463		0.5517		0.5298
26	0.5417		0.5356		0.5461		0.5546		0.5321
27	0.5329		0.5341		0.5333		0.5414		0.5283
28	0.5243		0.5224		0.5283		0.5416		0.5145
29	0.5285		0.5264		0.5227		0.5445		0.5279
30	0.5323		0.5216		0.5232		0.5360		0.5252
31	0.5225		0.5248		0.5249		0.5414		0.5275
32	0.5233		0.5201		0.5167		0.5348		0.5156
33	0.5256		0.5167		0.5238		0.5395		0.5200
34	0.5211		0.5519		0.5243		0.5351		0.5201
35	0.5203		0.5180		0.5220		0.5285		0.5221
36	0.5199		0.5200		0.5284		0.5388		0.5258
37	0.5268		0.5157		0.5205		0.5346		0.5189
38	0.5261		0.5119		0.5212		0.5314		0.5165
39	0.5233		0.5185		0.5191		0.5277		0.5193
40	0.5425		0.5184		0.5219		0.5330		0.5171
41	0.5192		0.5168		0.5398		0.5454		0.5348
42	0.5307		0.5290		0.5236		0.5315		0.5232
43	0.5163		0.5201		0.5222		0.5298		0.5177
44	0.5131		0.5214		0.5293		0.5369		0.5251
45	0.5211		0.5277		0.5266		0.5419		0.5244
46	0.5258		0.5340		0.5319		0.5418		0.5175
47	0.5314		0.5372		0.5323		0.5421		0.5283
48	0.5379		0.5422		0.5371		0.5453		0.5301
49	0.5408		0.5471		0.5467		0.5577		0.5476
50	0.5488		0.5463		0.5509		0.5649		0.5424

Test Date:	3/4/2003
Operator:	GL
Temperature (C):	23
Humidity (RH):	24%
Equipment ID:	OGP-01
Used In:	MECT

500 Cycles

Measurements in mm

Sample#	B1		B2		B3		B4		B5	
1	0.5558		0.5621		0.5713		0.5701		0.5429	
2	0.5532		0.5567		0.5661		0.5666		0.5518	
3	0.5491		0.5501		0.5547		0.5492		0.5375	
4	0.5415		0.5491		0.5532		0.5509		0.5427	
5	0.5355		0.5399		0.5511		0.5439		0.5366	
6	0.5349		0.5332		0.5359		0.5383		0.5325	
7	0.5393		0.5250		0.5260		0.5364		0.5274	
8	0.5230		0.5250		0.5183		0.5297		0.5225	
9	0.5188		0.5221		0.5217		0.5299		0.5200	
10	0.5260		0.5255		0.5202		0.5305		0.5198	
11	0.5162		0.5221		0.5256		0.5306		0.5122	
12	0.5212		0.5271		0.5133		0.5261		0.5177	
13	0.5165		0.5246		0.5134		0.5236		0.5104	
14	0.5177		0.5230		0.5189		0.5253		0.5174	
15	0.5318		0.5181		0.5178		0.5301		0.5210	

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

16	0.5253		0.5318		0.5251		0.5244		0.5259
17	0.5285		0.5357		0.5185		0.5304		0.5133
18	0.5285		0.5242		0.5299		0.5343		0.5292
19	0.5307		0.5303		0.5214		0.5348		0.5169
20	0.5368		0.5402		0.5301		0.5385		0.5257
21	0.5438		0.5617		0.5384		0.5360		0.5327
22	0.5453		0.5724		0.5362		0.5530		0.5294
23	0.5818		0.5716		0.5530		0.5677		0.5358
24	0.5665		0.5557		0.5514		0.5561		0.5358
25	0.5511		0.5445		0.5434		0.5506		0.5311
26	0.5443		0.5371		0.5439		0.5533		0.5319
27	0.5341		0.5359		0.5294		0.5412		0.5283
28	0.5239		0.5218		0.5245		0.5393		0.5124
29	0.5317		0.5272		0.5217		0.5423		0.5262
30	0.5340		0.5189		0.5203		0.5342		0.5234
31	0.5253		0.5233		0.5188		0.5395		0.5273
32	0.5237		0.5201		0.5124		0.5321		0.5150
33	0.5269		0.5172		0.5222		0.5368		0.5199
34	0.5231		0.5517		0.5235		0.5304		0.5196
35	0.5227		0.5204		0.5188		0.5252		0.5193
36	0.5216		0.5198		0.5257		0.5347		0.5241
37	0.5289		0.5154		0.5196		0.5318		0.5182
38	0.5288		0.5116		0.5196		0.5283		0.5162
39	0.5249		0.5199		0.5179		0.5253		0.5189
40	0.5429		0.5173		0.5191		0.5341		0.5177
41	0.5213		0.5187		0.5370		0.5440		0.5330
42	0.5328		0.5273		0.5189		0.5292		0.5222
43	0.5193		0.5197		0.5181		0.5291		0.5182
44	0.5177		0.5204		0.5254		0.5343		0.5237
45	0.5254		0.5262		0.5220		0.5393		0.5223
46	0.5323		0.5349		0.5296		0.5377		0.5170
47	0.5393		0.5369		0.5288		0.5393		0.5265
48	0.5494		0.5433		0.5359		0.5403		0.5289
49	0.5562		0.5526		0.5463		0.5525		0.5448
50	0.5691		0.5529		0.5488		0.5610		0.5359

Test Date:	3/17/2003
Operator:	GL
Temperature (C):	23
Humidity (RH):	32%
Equipment ID:	OGP-01
Used In:	MECT

Thermal

Measurements in mm

Sample#	B1		B2		B3		B4		B5	
1	0.6786		0.6892		0.7022		0.6933		0.6707	
2	0.6832		0.6863		0.6987		0.6919		0.6742	
3	0.6785		0.6847		0.6916		0.6830		0.6639	
4	0.6761		0.6877		0.6919		0.6833		0.6695	
5	0.6739		0.6835		0.6922		0.6819		0.6676	
6	0.6737		0.6725		0.6841		0.6818		0.6657	
7	0.6756		0.6738		0.6799		0.6809		0.6621	
8	0.6658		0.6735		0.6738		0.6756		0.6581	
9	0.6649		0.6728		0.6778		0.6782		0.6585	

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031"] Right Angled Edge Card Assembly	

10	0.6736		0.6752		0.6791		0.6785		0.6580
11	0.6638		0.6733		0.6805		0.6781		0.6523
12	0.6667		0.6790		0.6761		0.6777		0.6581
13	0.6656		0.6735		0.6751		0.6753		0.6523
14	0.6667		0.6747		0.6793		0.6741		0.6588
15	0.6746		0.6735		0.6812		0.6820		0.6619
16	0.6739		0.6826		0.6850		0.6763		0.6640
17	0.6740		0.6832		0.6792		0.6815		0.6551
18	0.6743		0.6736		0.6848		0.6828		0.6647
19	0.6772		0.6784		0.6803		0.6846		0.6574
20	0.6784		0.6846		0.6807		0.6852		0.6611
21	0.6820		0.6997		0.6875		0.6854		0.6653
22	0.6815		0.7075		0.6851		0.6963		0.6641
23	0.7054		0.7048		0.6926		0.7032		0.6704
24	0.6966		0.6963		0.6953		0.6980		0.6721
25	0.6847		0.6908		0.6917		0.6921		0.6685
26	0.6826		0.6868		0.6904		0.6965		0.6691
27	0.6769		0.6858		0.6806		0.6894		0.6690
28	0.6731		0.6770		0.6794		0.6886		0.6570
29	0.6760		0.6798		0.6779		0.6939		0.6683
30	0.6764		0.6766		0.6775		0.6879		0.6642
31	0.6752		0.6771		0.6780		0.6919		0.6673
32	0.6732		0.6769		0.6716		0.6884		0.6598
33	0.6749		0.6734		0.6758		0.6906		0.6631
34	0.6741		0.6963		0.6803		0.6875		0.6630
35	0.6717		0.6780		0.6775		0.6809		0.6616
36	0.6693		0.6748		0.6788		0.6881		0.6656
37	0.6711		0.6718		0.6697		0.6815		0.6635
38	0.6734		0.6684		0.6720		0.6765		0.6600
39	0.6724		0.6732		0.6695		0.6758		0.6591
40	0.6801		0.6682		0.6681		0.6773		0.6582
41	0.6612		0.6693		0.6805		0.6855		0.6688
42	0.6753		0.6760		0.6658		0.6753		0.6617
43	0.6615		0.6688		0.6672		0.6753		0.6583
44	0.6623		0.6695		0.6724		0.6792		0.6630
45	0.6680		0.6676		0.6651		0.6823		0.6613
46	0.6730		0.6754		0.6717		0.6826		0.6567
47	0.6749		0.6763		0.6741		0.6815		0.6631
48	0.6807		0.6788		0.6750		0.6784		0.6601
49	0.6847		0.6818		0.6751		0.6866		0.6729
50	0.6922		0.6827		0.6839		0.6943		0.6692

Test Date:	3/31/2003
Operator:	GL
Temperature (C):	24
Humidity (RH):	22%
Equipment ID:	OGP-01

Used In: MECT

Humidity

Measurements in mm

Sample#	B1		B2		B3		B4		B5	
1	0.6849		0.6967		0.7082		0.7009		0.6758	
2	0.6887		0.6971		0.7052		0.6981		0.6812	
3	0.6867		0.6946		0.6998		0.6898		0.6728	

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

4	0.6840		0.6977		0.7011		0.6934		0.6778
5	0.6801		0.6924		0.6978		0.6910		0.6764
6	0.6808		0.6880		0.6937		0.6918		0.6747
7	0.6806		0.6861		0.6883		0.6912		0.6724
8	0.6730		0.6875		0.6825		0.6876		0.6670
9	0.6694		0.6850		0.6874		0.6904		0.6677
10	0.6802		0.6868		0.6879		0.6910		0.6674
11	0.6708		0.6771		0.6880		0.6887		0.6643
12	0.6721		0.6874		0.6846		0.6870		0.6692
13	0.6713		0.6849		0.6828		0.6837		0.6620
14	0.6729		0.6824		0.6857		0.6843		0.6671
15	0.6805		0.6821		0.6916		0.6918		0.6696
16	0.6816		0.6911		0.6954		0.6864		0.6726
17	0.6820		0.6934		0.6895		0.6901		0.6628
18	0.6793		0.6825		0.6965		0.6912		0.6722
19	0.6825		0.6886		0.6904		0.6937		0.6654
20	0.6831		0.6937		0.6900		0.6939		0.6684
21	0.6882		0.7066		0.6985		0.6931		0.6727
22	0.6879		0.7141		0.6926		0.7031		0.6716
23	0.7130		0.7139		0.7006		0.7115		0.6770
24	0.7035		0.7025		0.7020		0.7062		0.6804
25	0.6931		0.6950		0.6978		0.7049		0.6760
26	0.6880		0.6951		0.6989		0.7061		0.6758
27	0.6832		0.6934		0.6908		0.6990		0.6761
28	0.6773		0.6855		0.6875		0.6989		0.6650
29	0.6832		0.6883		0.6868		0.7033		0.6770
30	0.6833		0.6867		0.6872		0.6983		0.6729
31	0.6803		0.6874		0.6896		0.6998		0.6759
32	0.6772		0.6849		0.6826		0.6966		0.6667
33	0.6795		0.6830		0.6833		0.6994		0.6700
34	0.6756		0.7032		0.6886		0.6951		0.6703
35	0.6761		0.6829		0.6825		0.6888		0.6688
36	0.6690		0.6794		0.6892		0.6956		0.6730
37	0.6766		0.6793		0.6834		0.6913		0.6686
38	0.6752		0.6735		0.6812		0.6879		0.6676
39	0.6721		0.6766		0.6775		0.6837		0.6658
40	0.6825		0.6775		0.6779		0.6843		0.6642
41	0.6688		0.6767		0.6918		0.6928		0.6741
42	0.6794		0.6803		0.6790		0.6839		0.6671
43	0.6666		0.6739		0.6778		0.6850		0.6649
44	0.6666		0.6758		0.6825		0.6890		0.6690
45	0.6717		0.6772		0.6769		0.6912		0.6679
46	0.6762		0.6835		0.6850		0.6904		0.6623
47	0.6789		0.6833		0.6824		0.6886		0.6688
48	0.6839		0.6869		0.6831		0.6893		0.6662
49	0.6854		0.6922		0.6880		0.6950		0.6787
50	0.6893		0.6905		0.6924		0.7014		0.6706

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031"] Right Angled Edge Card Assembly	

DATA Continued

Date	Mar. 03 2003	Mar. 04 2003	Mar. 04 2003	Mar. 04 2003	Mar. 04 2003	Mar. 17 2003	Mar. 31 2003
Room Temp C	21	23	22	22	21	20	20
RH	27%	23%	24%	26%	28%	48%	26%
Name	Troy Cook	Troy Cook	Troy Cook	Troy Cook	Troy Cook	Troy Cook	Troy Cook

mOhm values		Actual	Delta	Delta	Delta	Delta	Delta	Delta
Board	Position	Initial	200 Cycles	300 Cycles	400 Cycles	500 Cycles	Thermal	Humidity
1	P1	14.3	-1.5	-1.3	-0.5	-1.3	-1.3	-1.0
1	P2	13.6	-0.7	-0.5	0.3	-0.6	-0.4	-0.3
1	P3	13.1	-0.2	0.0	0.0	-0.1	0.0	0.1
1	P4	14.3	-0.9	-0.9	-0.9	-1.2	-1.0	-1.2
1	P5	13.7	-0.6	-0.8	0.6	-0.4	-0.6	0.0
1	P6	13.2	-0.3	-0.1	0.3	0.1	0.1	0.0
1	P7	14.0	-1.0	-0.9	-0.5	-0.8	-0.6	-0.4
1	P8	14.5	-1.4	-1.2	-1.2	-1.1	-0.7	-0.9
1	P9	13.5	-0.4	-0.2	0.4	-0.1	0.0	0.5
1	P10	14.0	-0.8	-0.7	-0.2	-0.2	-0.4	-0.2
1	P11	13.5	-0.5	-0.4	0.2	-0.2	-0.2	0.4
1	P12	13.2	0.0	0.2	0.4	0.1	0.4	0.7
1	P13	14.1	-0.9	-0.9	-0.9	-0.9	-0.8	-0.3
1	P14	13.5	-0.3	-0.2	-0.1	-0.5	-0.2	0.7
1	P15	13.2	-0.1	-0.1	0.0	-0.1	0.1	0.7
1	P16	13.8	-0.8	-0.6	-0.7	-0.6	-0.6	0.4
1	P17	13.3	-0.3	-0.2	-0.3	-0.1	-0.1	0.0
1	P18	14.5	-1.3	-1.0	-1.2	-1.4	-1.3	-0.7
1	P19	13.2	-0.2	0.0	-0.1	-0.4	-0.1	0.2
1	P20	14.8	-1.7	-1.5	-1.6	-1.3	-1.3	-1.2
1	P21	14.1	-1.0	-0.8	-0.9	-0.7	-0.7	-0.6
1	P22	13.9	-0.3	0.1	-0.3	-0.6	-0.2	-0.1
1	P23	14.4	-0.9	-0.8	-1.0	-1.4	-1.3	-0.7
1	P24	13.3	0.0	0.1	-0.1	-0.4	-0.2	0.0
1	P25	13.3	-0.3	-0.2	-0.5	-0.4	-0.1	-0.1
2	P1	10.5	0.1	0.4	0.0	0.2	0.7	0.9
2	P2	10.6	0.1	0.3	-0.1	0.2	0.7	0.7
2	P3	10.5	0.0	0.2	0.0	0.1	0.5	0.1
2	P4	10.8	0.2	0.1	-0.1	-0.1	0.4	0.0
2	P5	10.8	0.4	0.4	0.1	0.1	0.7	0.3
2	P6	10.5	0.2	0.3	0.1	0.3	1.1	0.7
2	P7	10.7	0.6	0.6	0.3	0.5	1.1	0.9
2	P8	10.8	0.0	-0.1	-0.1	0.0	0.7	0.5
2	P9	10.7	0.0	0.0	-0.1	0.0	0.9	1.0
2	P10	11.1	0.1	0.0	-0.1	0.0	1.1	0.5
2	P11	10.7	-0.1	-0.1	0.0	-0.1	0.5	0.3
2	P12	11.2	-0.6	-0.5	-0.6	-0.5	0.1	0.0
2	P13	10.6	0.0	0.0	0.0	0.2	0.9	0.6
2	P14	10.6	0.1	0.0	0.1	0.2	0.7	0.5

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

2	P15	10.8	0.0	-0.2	0.0	0.2	1.3	0.5
2	P16	10.8	-0.1	-0.1	-0.1	0.2	1.3	1.0
2	P17	10.5	-0.1	0.0	0.0	0.0	0.4	0.4
2	P18	10.7	-0.1	-0.2	-0.1	0.0	0.6	0.3
2	P19	10.8	-0.2	-0.2	-0.1	-0.3	0.4	0.4
2	P20	10.9	-0.2	-0.1	0.3	-0.1	1.3	1.1
2	P21	11.0	0.5	-0.1	0.2	0.0	1.4	1.2
2	P22	11.0	-0.1	-0.2	-0.1	-0.2	1.1	0.6
2	P23	11.3	-0.5	-0.5	-0.4	-0.4	0.9	0.2
2	P24	10.8	-0.1	0.1	0.0	-0.2	1.2	1.0
2	P25	11.1	-0.3	-0.1	0.2	-0.2	1.9	1.0
3	P1	14.6	-1.1	-1.2	-1.0	-1.2	-0.9	-0.3
3	P2	15.0	-0.6	-1.3	-1.3	-1.5	-0.9	1.1
3	P3	13.7	-0.2	-0.3	-0.2	-0.3	0.0	0.1
3	P4	14.3	-0.6	-1.0	-0.9	-1.0	-0.6	0.1
3	P5	14.0	-0.8	-0.8	-0.9	-1.0	-0.8	0.0
3	P6	13.9	-0.3	-0.5	-0.4	-0.6	-0.3	-0.2
3	P7	14.0	0.0	-0.4	-0.6	-0.6	-0.2	0.3
3	P8	14.4	-0.5	-1.0	-0.7	-0.9	-0.5	0.1
3	P9	13.6	-0.1	-0.2	-0.1	-0.3	0.1	1.0
3	P10	14.1	-0.3	-0.7	-0.8	-0.8	-0.5	0.3
3	P11	13.6	0.0	-0.4	-0.3	-0.4	0.1	1.3
3	P12	13.5	-0.1	-0.3	0.9	0.0	0.0	1.2
3	P13	14.2	-0.3	-0.7	-0.6	-0.6	-0.3	0.5
3	P14	13.7	0.4	-0.4	0.6	-0.3	-0.1	0.7
3	P15	13.3	0.0	-0.2	0.1	-0.2	0.6	1.1
3	P16	13.4	-0.1	-0.3	-0.1	-0.2	0.1	1.4
3	P17	13.6	-0.4	-0.3	-0.5	-0.4	-0.1	0.3
3	P18	13.8	0.6	-0.5	-0.5	-0.7	-0.1	0.3
3	P19	13.4	-0.1	-0.2	-0.1	-0.1	0.1	0.3
3	P20	14.3	0.1	-0.8	-0.5	-0.8	-0.5	-0.3
3	P21	13.8	-0.4	-0.8	-0.8	-0.7	-0.3	0.2
3	P22	13.5	0.1	0.1	-0.2	0.0	0.4	1.2
3	P23	13.5	-0.1	-0.2	-0.2	-0.3	0.0	0.2
3	P24	13.1	0.1	-0.1	-0.1	-0.1	0.1	0.6
3	P25	13.2	0.2	-0.2	-0.2	-0.1	0.1	0.5
4	P1	11.1	-0.1	0.0	0.0	-0.1	0.6	1.3
4	P2	11.5	0.2	0.2	-0.1	-0.1	0.4	0.9
4	P3	11.6	-0.6	-0.5	-0.5	-0.5	0.2	0.7
4	P4	11.0	0.5	0.1	0.0	0.1	0.7	2.2
4	P5	11.2	-0.3	-0.3	-0.3	-0.4	0.3	3.1
4	P6	11.1	-0.2	-0.1	-0.2	-0.1	0.4	2.9
4	P7	11.1	-0.1	-0.2	-0.2	-0.1	0.6	4.8
4	P8	10.9	0.1	0.0	0.1	0.2	1.3	2.5
4	P9	10.9	-0.1	0.1	-0.1	0.0	1.0	2.7
4	P10	11.0	0.0	0.1	0.1	0.1	1.1	1.7
4	P11	10.9	0.0	0.0	0.0	0.1	1.0	3.0
4	P12	11.1	0.1	0.1	0.0	0.1	0.9	2.6
4	P13	10.9	0.1	0.0	0.1	0.2	0.8	3.8
4	P14	11.2	0.0	-0.2	0.0	0.0	0.7	2.1

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

4	P15	11.0	0.0	0.0	0.0	0.1	1.2	2.6
4	P16	10.8	0.0	0.0	0.0	0.1	0.5	2.8
4	P17	10.7	0.1	0.2	0.1	0.3	0.8	3.5
4	P18	10.8	0.3	0.4	0.2	0.2	1.0	3.2
4	P19	11.2	0.0	-0.1	0.1	0.0	0.6	1.1
4	P20	10.9	0.4	0.1	0.4	0.3	1.7	1.7
4	P21	10.8	0.0	0.1	0.4	0.3	1.0	3.3
4	P22	11.2	0.3	0.1	0.2	0.0	0.9	3.6
4	P23	10.8	0.2	0.2	0.7	0.2	1.3	3.0
4	P24	11.2	-0.1	0.0	0.4	0.4	1.6	3.4
4	P25	11.1	0.1	0.1	0.4	0.1	1.0	1.8
5	P1	13.4	0.1	0.2	0.2	-0.1	0.3	0.4
5	P2	13.3	0.2	0.3	0.3	0.1	0.8	0.2
5	P3	13.5	0.0	0.3	0.4	-0.1	0.4	0.1
5	P4	13.6	0.0	0.1	-0.1	-0.2	0.2	0.3
5	P5	13.8	-0.3	-0.3	-0.3	-0.3	0.5	0.1
5	P6	14.0	-0.1	0.2	0.1	0.0	0.4	0.1
5	P7	13.7	-0.4	-0.2	-0.3	-0.4	0.2	-0.3
5	P8	13.8	-0.3	-0.3	-0.1	-0.3	0.0	0.0
5	P9	13.8	-0.4	-0.4	-0.4	-0.4	-0.1	-0.3
5	P10	13.9	-0.3	0.0	-0.3	-0.3	0.0	-0.2
5	P11	13.2	0.1	0.0	0.1	0.0	0.2	0.1
5	P12	13.6	-0.4	-0.4	-0.4	-0.3	-0.1	-0.3
5	P13	14.1	-0.3	-0.4	-0.3	-0.4	-0.1	-0.3
5	P14	13.8	-0.3	-0.3	-0.2	-0.1	-0.1	0.0
5	P15	13.8	-0.4	-0.4	-0.2	-0.4	-0.1	-0.3
5	P16	13.9	-0.2	-0.4	-0.1	-0.4	0.1	-0.2
5	P17	14.1	-0.5	-0.7	-0.4	-0.6	-0.4	-0.5
5	P18	13.7	-0.2	-0.3	-0.3	-0.3	0.1	-0.1
5	P19	14.0	-0.7	-0.7	-0.6	-0.8	-0.5	-0.6
5	P20	14.5	-1.1	-1.1	-1.1	-1.2	-0.9	-1.0
5	P21	13.5	-0.2	-0.4	-0.2	-0.2	0.1	-0.1
5	P22	13.5	-0.1	-0.3	-0.1	-0.2	-0.1	-0.1
5	P23	13.5	-0.2	-0.3	-0.1	-0.3	0.1	0.0
5	P24	13.2	0.0	-0.1	0.1	0.0	0.3	0.1
5	P25	13.2	0.0	0.0	0.1	0.0	1.0	0.5
6	P1	11.0	0.0	-0.1	-0.2	-0.2	0.3	2.0
6	P2	11.1	0.0	-0.1	-0.6	-0.3	0.3	1.8
6	P3	10.9	0.0	0.0	-0.2	-0.1	0.3	0.8
6	P4	10.9	0.0	-0.2	-0.3	-0.3	0.5	0.9
6	P5	11.0	-0.1	-0.3	-0.3	-0.2	0.4	1.8
6	P6	10.9	0.0	0.0	-0.2	0.0	0.3	0.3
6	P7	11.2	-0.4	-0.4	-0.5	-0.3	0.1	1.0
6	P8	11.0	-0.1	0.0	-0.1	-0.2	0.3	1.0
6	P9	10.9	0.2	-0.1	-0.1	-0.1	0.9	1.7
6	P10	11.1	-0.2	-0.3	-0.4	-0.3	0.6	0.3
6	P11	11.1	-0.3	-0.4	-0.3	-0.3	0.8	0.8
6	P12	10.6	0.0	0.1	0.0	0.0	0.6	0.7
6	P13	10.8	-0.2	-0.1	-0.2	-0.1	0.4	0.4
6	P14	10.9	-0.2	-0.1	-0.1	-0.1	0.9	0.5

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

6	P15	11.0	-0.1	-0.1	-0.1	-0.1	0.6	1.0
6	P16	10.7	-0.1	-0.2	-0.1	-0.2	0.2	0.3
6	P17	10.7	0.2	0.2	0.1	0.1	0.8	1.4
6	P18	10.8	-0.1	-0.1	-0.2	-0.1	0.2	0.6
6	P19	10.8	-0.1	-0.1	-0.1	-0.1	0.6	0.9
6	P20	10.7	-0.1	0.0	0.0	-0.1	0.5	1.0
6	P21	10.9	-0.2	-0.1	-0.1	-0.1	0.5	0.8
6	P22	10.8	0.0	0.0	0.0	0.2	0.6	1.0
6	P23	11.2	-0.3	-0.2	-0.1	0.1	0.2	1.5
6	P24	10.8	-0.1	0.2	0.1	0.1	0.5	0.7
6	P25	10.9	-0.3	0.1	0.2	0.0	0.3	1.0
7	P1	13.4	-0.1	-0.1	-0.2	-0.2	0.2	4.2
7	P2	13.3	-0.2	0.3	0.0	-0.2	0.4	1.7
7	P3	13.4	0.0	-0.1	-0.1	-0.2	0.2	1.4
7	P4	13.5	-0.1	0.4	-0.2	-0.1	-0.1	2.5
7	P5	13.2	-0.1	0.3	-0.1	-0.1	0.1	2.3
7	P6	13.5	-0.2	0.5	-0.2	-0.3	0.1	1.7
7	P7	13.8	-0.4	-0.4	-0.5	-0.4	-0.2	0.7
7	P8	15.1	-2.0	-0.6	-2.1	-1.9	-1.6	0.4
7	P9	13.8	-0.6	-0.7	-0.8	-0.8	-0.5	0.6
7	P10	14.1	-0.8	-0.1	-0.9	-0.9	-0.5	1.5
7	P11	13.3	0.0	0.7	-0.2	0.0	0.3	2.2
7	P12	13.8	-0.6	-0.4	-0.7	-0.5	-0.1	0.7
7	P13	13.9	-0.4	-0.4	-0.5	-0.5	0.1	0.3
7	P14	13.8	-0.5	-0.2	-0.4	-0.3	-0.1	2.0
7	P15	14.0	-0.3	-0.4	-0.4	-0.5	-0.1	0.0
7	P16	13.5	-0.1	-0.2	-0.2	-0.2	0.3	0.3
7	P17	13.3	-0.2	-0.1	-0.1	-0.2	0.3	1.2
7	P18	13.5	-0.2	-0.3	-0.2	-0.2	0.1	0.5
7	P19	13.9	-0.6	-0.4	-0.6	-0.6	-0.2	0.0
7	P20	13.6	-0.3	-0.5	-0.4	-0.5	-0.2	0.0
7	P21	13.2	0.0	0.1	0.0	0.0	0.3	2.4
7	P22	13.4	-0.2	0.0	-0.2	-0.1	0.4	2.1
7	P23	13.8	-0.5	-0.6	-0.6	-0.6	-0.2	1.0
7	P24	13.2	-0.1	0.2	0.1	0.0	0.4	1.2
7	P25	13.6	-0.3	-0.1	-0.1	-0.2	0.3	0.6
8	P1	11.1	-0.1	-0.2	0.0	-0.2	1.2	0.5
8	P2	11.2	-0.4	-0.5	-0.4	-0.5	0.4	0.7
8	P3	12.1	-1.3	-1.2	-1.2	-1.2	-0.2	-0.2
8	P4	12.4	-1.6	-1.4	-1.5	-1.4	0.0	0.4
8	P5	11.5	-0.6	-0.4	-0.5	-0.6	0.3	1.2
8	P6	14.3	-3.5	-3.3	-3.4	-3.5	-2.4	-2.3
8	P7	13.9	-2.9	-2.9	-2.7	-3.0	-0.9	-1.0
8	P8	10.8	-0.1	0.0	0.1	0.0	1.1	0.6
8	P9	11.3	-0.5	-0.4	-0.4	-0.5	0.6	0.8
8	P10	12.0	-1.2	-1.1	-1.0	-1.2	-0.2	0.8
8	P11	11.8	-1.0	-1.0	-0.8	-0.9	0.1	-0.3
8	P12	11.2	-0.2	-0.2	-0.3	-0.4	0.4	0.1
8	P13	11.6	-0.6	-0.6	-0.7	-0.7	0.0	-0.1
8	P14	12.1	-0.9	-1.0	-1.0	-1.1	0.8	0.0

8	P15	11.1	-0.1	0.0	0.0	0.0	2.5	1.0
8	P16	11.0	-0.1	0.1	0.0	0.0	1.1	0.7
8	P17	12.1	-0.8	-0.9	-1.0	-1.0	0.6	-0.1
8	P18	11.4	-0.4	-0.4	-0.4	-0.3	0.6	0.2
8	P19	10.9	0.0	0.0	0.1	0.1	2.1	1.0
8	P20	10.9	-0.1	0.0	0.0	0.1	0.8	0.4
8	P21	11.7	-0.9	-0.7	-0.7	-0.7	-0.1	-0.1
8	P22	11.0	-0.1	0.0	0.2	0.0	1.3	1.5
8	P23	12.0	-1.2	-1.0	-0.9	-1.0	0.0	-0.2
8	P24	12.0	-1.1	-0.9	-0.9	-1.0	-0.4	-0.4
8	P25	11.1	0.0	0.0	0.1	0.0	0.8	1.0

Tracking Code: TC0312--0104	Part #: MECT-150-01-M-D-RA1
Part description: : 0.8 mm [0.031”] Right Angled Edge Card Assembly	

EQUIPMENT AND CALIBRATION SCHEDULES

Equipment #: THL-01
Description: Temperature/Humidity Chart Recorder
Manufacturer: Dickson
Model: THDX
Serial #: 9316255
Accuracy: Temp: +/- 1C; Humidity: +/-2% RH (0 - 60%) +/- 3% RH (61 - 95%).
… Last Cal: 7/15/02, Next Cal: 7/15/03

Equipment #: OGP-01
Description: 6"X 6" Video Measuring Machine
Manufacturer: Optical Gauging Products
Model: Smartscope 200 CFOV
Serial #: SF2001956
Accuracy: See Manual
… Last Cal3/12/2003, Next Cal: 9/12/2003

Equipment #: MO-01
Description: Micro-Ohmeter
Manufacturer: Keithley
Model: 580
Serial #: 0772740
Accuracy: See Manual
… Last Cal: 6/25/02, Next Cal: 6/25/03

Equipment #: MO-03
Description: Multimeter /Data Acquisition System
Manufacturer: Keithley
Model: 2700
Serial #: 0791975
Accuracy: See Manual
… Last Cal: 6/25/02, Next Cal: 6/25/03

Equipment #: TCT-03
Description: Dillon Quantrol TC2 Test Stand
Manufacturer: Dillon Quantrol
Model: TC2
Serial #: 02-1033-03
Accuracy: Speed Accuracy: +/- 5% of indicated speed; Displacement: +/- 5 micrometers.
… Last Cal: 03/21/02, Next Cal: 03/21/03

Equipment #: LC-2500N(icell)
Description: 2500 N Load Cell for Dillon Quantrol
Manufacturer: Dillon Quantrol
Model: icell
Serial #: 01-0132-01
Accuracy: .10% of capacity
… Last Cal: 3/21/02, Next Cal: 3/21/03

Equipment #: OV-03
Description: Cascade Tek Forced Air Oven
Manufacturer: Cascade Tek
Model: TFO-5
Serial #: 0500100
Accuracy: Temp. Stability: +/-.1C/C change in ambient Temp. Stability: +/-.1C/C change in ambient
… Last Cal: 6/25/02, Next Cal: 6/25/03

Equipment #: THC-01
Description: Temperature/Humidity Chamber
Manufacturer: Thermotron
Model: SM-8-7800
Serial #: 30676
Accuracy: See Manual
… Last Cal: 5/13/02, Next Cal: 5/13/03