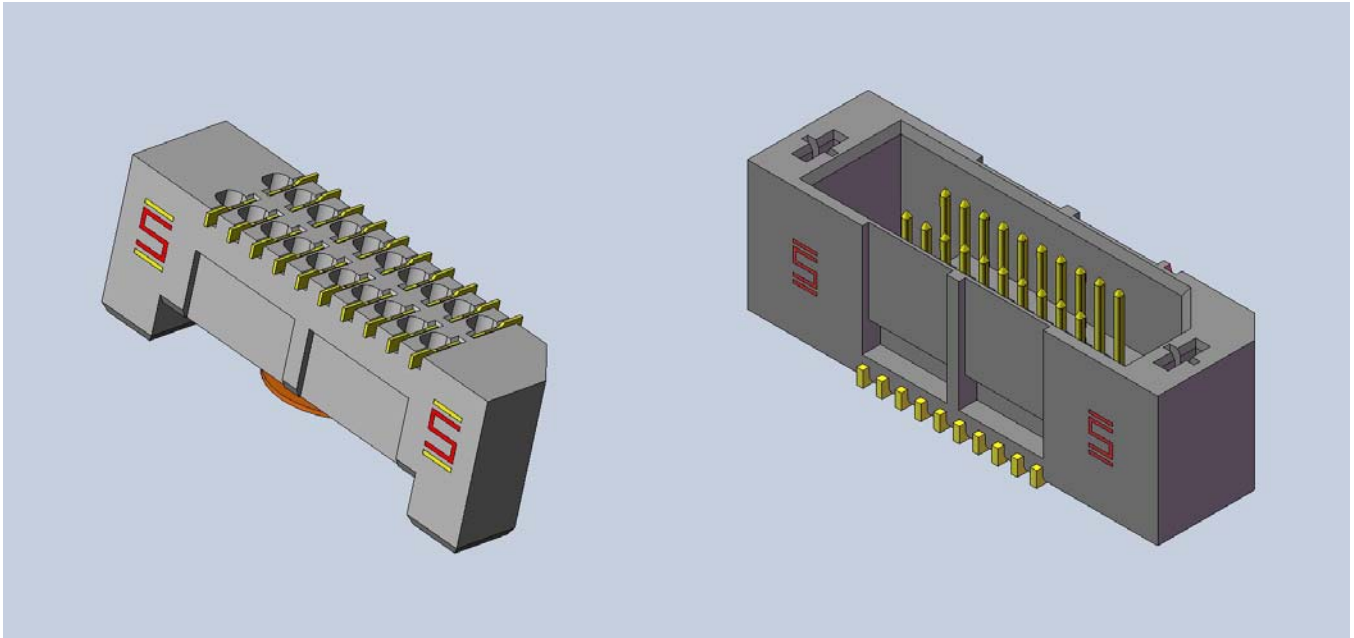




Project Number:		Tracking Code: TC088--1593			
Requested by: Brandon Harpenau		Date: 6/16/2008		Product Rev: 1	
Part #: SEM-125-02-03.0-H-D-WT/ TEM-125-02-03.0-H-D-WT		Lot #: 0		Tech: Rodney Riley, Gary Lomax	Eng: Troy Cook
Part description: TEM/SEM					Qty to test: 32
Test Start: 02/20/2008		Test Completed: 3/24/2008			



**EXTENDED LIFE PRODUCTS REPORT**

**PART DESCRIPTION**

**SEM-125-02-03.0-H-D-WT/ TEM-125-02-03.0-H-D-WT**

## CERTIFICATION

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

All contents contained herein are the property of Samtec. No portion of this report, in part or in full shall be reproduced without prior written approval of Samtec.

### SCOPE

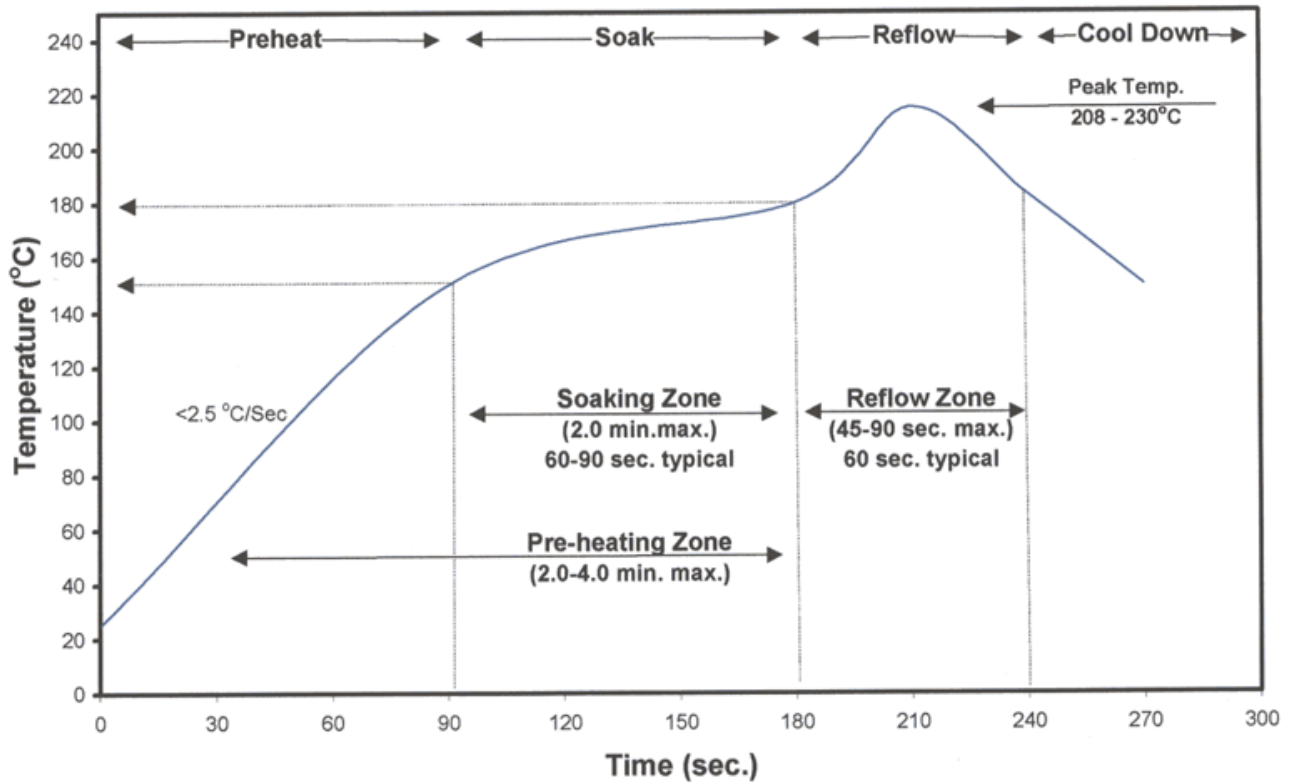
To perform the following tests: Durability Cycling

### 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-100970-TST-XX

**TYPICAL OVEN PROFILE (Soldering Parts to Test Boards)****Standard Solder Paste Reflow Profile  
for Kester Paste Containing  
Alloys: Sn63Pb37 or Sn62Pb36Ag02**

**FLOWCHARTS****Durability**

<b>TEST STEP</b>	<b>GROUP A 200 Points - 8 Samples 100 Cycles</b>
<b>01</b>	LLCR-1
<b>02</b>	100 Cycles
<b>03</b>	LLCR-2
<b>04</b>	Data Review
<b>05</b>	Thermals
<b>06</b>	LLCR-3
<b>07</b>	Data Review
<b>08</b>	Humidity
<b>09</b>	LLCR-4

**LLCR = EIA-364-23, LLCR**

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

**Cycling Rate = 500 +/- 50 per hour**

**Pass Criteria for LLCR = Less than 15 m-Ohm change in resistance.**

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

**Time Condition 'B' (250 hours)**

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

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

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

Part description: SEM/TEM

**Durability**

TEST STEP	GROUP A 200 Points - 8 Samples 250 Cycles
01	LLCR-1
02	250 Cycles
03	LLCR-2
04	Data Review
05	Thermals
06	LLCR-3
07	Data Review
08	Humidity
09	LLCR-4

LLCR = EIA-364-23, LLCR

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

Cycling Rate = 500 +/- 50 per hour

Pass Criteria for LLCR = Less than 15 m-Ohm change in resistance.

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

Time Condition 'B' (250 hours)

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

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

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

**Durability**

TEST STEP	GROUP A 200 Points - 8 Samples 500 Cycles
01	LLCR-1
02	500 Cycles
03	LLCR-2
04	Data Review
05	Thermals
06	LLCR-3
07	Data Review
08	Humidity
09	LLCR-4

LLCR = EIA-364-23, LLCR

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

Cycling Rate = 500 +/- 50 per hour

Pass Criteria for LLCR = Less than 15 m-Ohm change in resistance.

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

Time Condition 'B' (250 hours)

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

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

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

Part description: SEM/TEM

**Durability**

TEST STEP	GROUP A 200 Points - 8 Samples 1000 Cycles
01	LLCR-1
02	1000 Cycles
03	LLCR-2
04	Data Review
05	Thermals
06	LLCR-3
07	Data Review
08	Humidity
09	LLCR-4

LLCR = EIA-364-23, LLCR

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

Cycling Rate = 500 +/- 50 per hour

Pass Criteria for LLCR = Less than 15 m-Ohm change in resistance.

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

Time Condition 'B' (250 hours)

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

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

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

**Durability**

TEST STEP	GROUP A 200 Points - 8 Samples 2500 Cycles
01	LLCR-1
02	2500 Cycles
03	LLCR-2
04	Data Review
05	Thermals
06	LLCR-3
07	Data Review
08	Humidity
09	LLCR-4

LLCR = EIA-364-23, LLCR

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

Cycling Rate = 500 +/- 50 per hour

Pass Criteria for LLCR = Less than 15 m-Ohm change in resistance.

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

Time Condition 'B' (250 hours)

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

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

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

## 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.

### LLCR:

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

**RESULTS****LLCR Durability (200 LLCR test points)**

- **Initial** ----- 10.7 mOhms Max
- **Durability, 100 Cycles**
  - <= +5.0 mOhms ----- 198 Points ----- Stable
  - +5.1 to +10.0 mOhms ----- 2 Points ----- Minor
  - +10.1 to +15.0 mOhms ----- 0 Points ----- Acceptable
  - +15.1 to +50.0 mOhms ----- 0 Points ----- Marginal
  - +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
  - >+2000 mOhms ----- 0 Points ----- Open Failure
- **Thermal**
  - <= +5.0 mOhms ----- 199 Points ----- Stable
  - +5.1 to +10.0 mOhms ----- 1 Points ----- Minor
  - +10.1 to +15.0 mOhms ----- 0 Points ----- Acceptable
  - +15.1 to +50.0 mOhms ----- 0 Points ----- Marginal
  - +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
  - >+2000 mOhms ----- 0 Points ----- Open Failure
  -
- **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

**LLCR Durability (200 LLCR test points)**

- **Initial** ----- 10.3 mOhms Max
- **Durability, 250 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

**LLCR Durability (200 LLCR test points)**

- **Initial** ----- 10.2 mOhms Max
- **Durability, 500 Cycles**
  - <= +5.0 mOhms ----- 200 Points ----- Stable
  - +5.1 to +10.0 mOhms ----- 0 Points ----- Minor
  - +10.1 to +15.0 mOhms ----- 0 Points ----- Acceptable
  - +15.1 to +50.0 mOhms ----- 0 Points ----- Marginal
  - +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
  - >+2000 mOhms ----- 0 Points ----- Open Failure
- **Thermal**
  - <= +5.0 mOhms ----- 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

**LLCR Durability (200 LLCR test points)**

- **Initial** ----- 11.0 mOhms Max
- **Durability, 1000 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 ----- 199 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 ----- 1 Points ----- Marginal
  - +50.1 to +2000 mOhms ----- 0 Points ----- Unstable
  - >+2000 mOhms ----- 0 Points ----- Open Failure

**LLCR Durability (200 LLCR test points)**

- **Initial** ----- 13.5 mOhms Max
- **Durability, 2500 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** ----- 191 Points ----- Stable
  - **+5.1 to +10.0 mOhms** ----- 7 Points ----- Minor
  - **+10.1 to +15.0 mOhms** ----- 0 Points ----- Acceptable
  - **+15.1 to +50.0 mOhms** ----- 2 Points ----- Marginal
  - **+50.1 to +2000 mOhms** ----- 0 Points ----- Unstable
  - **>+2000 mOhms** ----- 0 Points ----- Open Failure

**DATA SUMMARIES****LLCR:**

- 1) A total of 200 points were measured.
- 2) EIA-364-23, *Low Level Contact Resistance Test Procedure for Electrical Connectors and Sockets*.
- 3) A computer program, *LLCR 221.exe*, ensures repeatability for data acquisition.
- 4) The following guidelines are used to categorize the changes in LLCR as a result from stressing.
  - a.  $\leq +5.0$  mOhms: ----- Stable
  - b.  $+5.1$  to  $+10.0$  mOhms:----- Minor
  - c.  $+10.1$  to  $+15.0$  mOhms: ----- Acceptable
  - d.  $+15.1$  to  $+50.0$  mOhms: ----- Marginal
  - e.  $+50.1$  to  $+2000$  mOhms ----- Unstable
  - f.  $>+2000$  mOhms:----- Open Failure

mOhm values	Actual Initial	Delta 100 Cycles	Delta Thermal	Delta Humidity
Average	9.1	0.2	0.0	0.7
St. Dev.	0.4	0.8	0.8	0.8
Min	8.2	-1.1	-2.3	-0.7
Max	10.7	5.7	6.0	3.8
Count	200	200	200	200

mOhm values	Actual Initial	Delta 250 Cycles	Delta Thermal	Delta Humidity
Average	9.2	0.2	-0.1	0.4
St. Dev.	0.4	0.5	0.6	0.7
Min	8.4	-0.8	-1.8	-1.0
Max	10.3	2.1	1.7	3.9
Count	200	200	200	200

mOhm values	Actual Initial	Delta 500 Cycles	Delta Thermal	Delta Humidity
Average	9.2	0.0	0.3	0.4
St. Dev.	0.4	0.5	0.6	0.8
Min	8.4	-1.2	-0.7	-0.7
Max	10.2	2.8	3.2	4.6
Count	200	200	200	200

Part description: SEM/TEM

<b>mOhm values</b>	<b>Actual Initial</b>	<b>Delta 1000 Cycles</b>	<b>Delta Thermal</b>	<b>Delta Humidity</b>
Average	9.5	0.0	0.0	0.5
St. Dev.	0.6	0.5	0.7	2.0
Min	8.5	-1.8	-1.6	-1.1
Max	11.0	1.8	2.3	25.8
Count	200	200	200	200

<b>mOhm values</b>	<b>Actual Initial</b>	<b>Delta 2500 Cycles</b>	<b>Delta Thermal</b>	<b>Delta Humidity</b>
Average	9.4	-0.1	0.1	1.3
St. Dev.	0.5	0.6	0.8	2.4
Min	8.2	-3.1	-3.5	-2.8
Max	13.5	2.9	4.6	19.2
Count	200	200	200	200

Part description: SEM/TEM

**DATA****LLCR:**

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	100 Cycles	Thermal	Humidity
1	P1	9.2	-0.6	-0.5	-0.1
1	P2	9.4	-0.2	-0.4	0.2
1	P3	9.6	-0.6	-0.7	0.2
1	P4	9.8	-0.7	-0.6	-0.1
1	P5	9.9	-0.7	-0.3	-0.1
1	P6	9.3	-0.5	0.0	0.1
1	P7	8.8	0.0	0.2	0.0
1	P8	8.9	0.2	-0.2	0.1
1	P9	8.9	0.4	-0.4	0.0
1	P10	9.2	0.0	-0.5	-0.4
1	P11	9.2	-0.4	-0.3	-0.1
1	P12	9.1	-0.1	-0.2	0.1
1	P13	9.2	0.0	-0.1	0.1
1	P14	9.2	0.3	-0.4	1.3
1	P15	9.5	0.2	-0.8	1.3
1	P16	9.1	0.3	-0.6	1.4
1	P17	9.2	1.0	-0.7	0.4
1	P18	9.0	0.7	-0.8	1.9
1	P19	9.0	1.1	-0.6	0.7
1	P20	10.1	0.0	-0.8	-0.3
1	P21	9.4	0.2	-0.5	0.5
1	P22	9.7	-0.1	-0.4	-0.2
1	P23	9.6	-0.1	-0.7	-0.7
1	P24	9.8	-0.3	-0.8	-0.4
1	P25	9.1	0.8	-0.2	0.9
2	P1	8.5	0.6	1.3	0.6
2	P2	9.0	0.1	0.9	0.6
2	P3	9.0	0.0	0.7	1.0
2	P4	9.2	0.1	0.2	0.3
2	P5	9.1	0.3	0.4	0.7
2	P6	8.8	0.4	0.5	0.5
2	P7	8.7	0.0	0.7	0.6
2	P8	8.5	0.3	1.1	0.5
2	P9	9.0	-0.4	0.6	0.4
2	P10	9.0	0.0	0.7	0.3
2	P11	8.8	0.0	0.4	0.4
2	P12	8.6	0.5	0.6	1.0
2	P13	8.9	0.5	0.1	0.6
2	P14	9.7	-0.8	-0.7	3.0
2	P15	9.6	-0.7	0.3	2.8

## Part description: SEM/TEM

2	P16	9.2	-0.5	-0.2	1.1
2	P17	9.2	-0.2	-0.5	1.1
2	P18	9.5	-0.8	-0.8	0.3
2	P19	9.8	-1.1	-1.1	0.5
2	P20	10.0	-0.5	-1.1	-0.4
2	P21	9.3	-0.2	0.1	2.1
2	P22	9.3	0.1	0.0	1.1
2	P23	9.2	0.0	0.0	1.4
2	P24	8.9	0.5	0.4	0.8
2	P25	8.9	-0.1	-0.2	2.8
3	P1	8.8	0.1	0.1	0.8
3	P2	8.9	0.1	0.6	0.9
3	P3	9.1	0.2	0.7	1.0
3	P4	9.1	0.2	0.7	0.8
3	P5	9.1	0.1	0.5	1.1
3	P6	9.2	0.1	0.3	0.3
3	P7	8.6	0.3	1.1	1.5
3	P8	8.7	0.2	1.2	0.4
3	P9	8.7	0.2	0.9	0.8
3	P10	9.1	0.1	-0.2	0.6
3	P11	9.0	0.0	0.5	0.5
3	P12	9.2	-0.1	1.0	0.1
3	P13	9.1	0.2	0.1	0.4
3	P14	9.2	0.1	-0.4	-0.3
3	P15	9.6	0.3	-0.5	-0.3
3	P16	9.3	0.1	-0.1	-0.2
3	P17	9.3	0.3	-0.4	0.9
3	P18	9.4	0.5	-0.4	1.4
3	P19	9.1	0.2	-0.2	1.0
3	P20	9.8	-0.4	-0.6	-0.3
3	P21	9.1	0.0	0.6	0.0
3	P22	9.4	-0.1	0.1	-0.2
3	P23	9.1	0.0	0.5	0.6
3	P24	9.4	0.0	-0.1	3.8
3	P25	9.4	-0.5	-0.5	-0.3
4	P1	8.8	0.4	0.2	0.3
4	P2	9.1	0.2	0.4	0.7
4	P3	9.2	0.5	0.9	0.4
4	P4	9.0	0.6	1.5	0.6
4	P5	9.0	0.4	0.5	1.0
4	P6	9.0	0.6	0.9	0.5
4	P7	8.4	0.4	1.1	1.2
4	P8	8.6	0.5	0.6	0.7
4	P9	8.9	0.0	0.4	0.1
4	P10	8.9	0.7	1.1	0.4
4	P11	8.9	0.4	0.6	0.4
4	P12	8.9	0.3	0.3	0.3
4	P13	9.0	0.5	0.2	1.0

## Part description: SEM/TEM

4	P14	8.8	0.5	0.1	1.1
4	P15	9.0	0.6	-0.3	1.1
4	P16	8.7	0.6	-0.1	2.4
4	P17	8.7	0.6	-0.1	3.1
4	P18	8.7	0.7	-0.1	2.0
4	P19	8.7	0.4	0.1	1.2
4	P20	9.0	0.8	0.4	2.8
4	P21	8.9	0.4	0.3	0.2
4	P22	8.8	0.7	0.2	0.6
4	P23	8.9	0.5	0.2	0.3
4	P24	8.7	0.4	0.6	0.1
4	P25	8.3	0.8	0.5	1.1
5	P1	9.3	-0.2	-0.3	0.3
5	P2	8.9	-0.3	0.1	0.2
5	P3	10.7	-1.1	-1.2	-0.2
5	P4	9.3	-0.3	0.0	-0.3
5	P5	9.0	-0.2	0.1	0.2
5	P6	9.3	-0.3	0.1	0.1
5	P7	9.2	-0.6	-0.4	0.1
5	P8	8.8	-0.1	0.4	0.8
5	P9	9.4	-0.4	-0.5	0.8
5	P10	8.9	0.2	0.3	0.8
5	P11	8.9	-0.2	1.0	0.6
5	P12	9.1	0.0	0.2	1.0
5	P13	9.1	0.2	0.0	0.4
5	P14	10.1	-0.2	-1.0	0.4
5	P15	10.6	-0.1	-2.3	0.7
5	P16	9.3	0.1	-0.8	0.9
5	P17	9.4	-0.3	-0.7	0.2
5	P18	9.4	-0.2	-0.8	3.1
5	P19	9.5	0.3	-0.9	1.2
5	P20	9.7	-0.1	-1.0	0.8
5	P21	9.8	-0.2	-1.2	0.2
5	P22	9.9	-0.1	-1.5	0.8
5	P23	9.4	0.2	0.2	0.3
5	P24	9.2	-0.3	-0.3	1.6
5	P25	9.2	-0.1	-0.2	1.4
6	P1	9.4	0.6	0.0	-0.4
6	P2	8.8	0.3	0.5	0.0
6	P3	8.9	0.0	0.2	0.2
6	P4	9.3	-0.2	0.5	0.4
6	P5	8.9	0.3	0.6	0.0
6	P6	9.3	-0.4	0.9	-0.3
6	P7	9.6	1.2	-0.7	0.3
6	P8	9.4	-0.1	-0.3	-0.4
6	P9	8.7	0.0	0.1	0.0
6	P10	8.6	0.2	0.5	0.0
6	P11	8.6	0.1	1.0	0.1

## Part description: SEM/TEM

6	P12	8.7	0.0	0.6	0.4
6	P13	9.0	0.0	-0.3	-0.4
6	P14	9.4	-0.4	-0.4	0.3
6	P15	9.0	0.2	0.0	1.4
6	P16	9.0	0.1	-0.6	1.0
6	P17	8.8	0.2	0.1	0.8
6	P18	8.5	0.2	1.0	2.2
6	P19	8.7	0.7	0.6	1.1
6	P20	9.5	0.5	-0.8	0.7
6	P21	9.1	0.4	-0.3	0.8
6	P22	9.2	0.4	0.1	0.7
6	P23	9.1	0.2	0.1	0.2
6	P24	8.6	0.4	0.0	0.6
6	P25	8.7	0.2	0.2	0.7
7	P1	8.4	0.3	6.0	3.1
7	P2	8.7	0.3	0.9	3.2
7	P3	8.7	0.2	2.1	0.7
7	P4	9.6	-0.1	-0.3	0.0
7	P5	8.9	-0.1	0.5	1.4
7	P6	9.1	-0.2	0.0	0.3
7	P7	8.2	0.4	0.9	0.5
7	P8	8.7	0.1	0.3	0.7
7	P9	8.4	0.0	0.4	1.8
7	P10	8.5	0.3	1.2	0.2
7	P11	8.7	0.3	0.9	1.8
7	P12	8.5	0.2	1.2	0.8
7	P13	8.7	-0.1	0.0	1.0
7	P14	9.2	-0.4	-0.4	0.1
7	P15	9.2	-0.1	-0.1	0.6
7	P16	9.1	0.6	-0.2	0.5
7	P17	9.0	2.2	-0.4	0.9
7	P18	9.0	1.9	-0.5	1.3
7	P19	9.1	4.5	-0.5	3.4
7	P20	9.3	0.3	-0.3	2.1
7	P21	9.2	1.1	-0.5	0.8
7	P22	9.3	3.1	-0.4	1.2
7	P23	9.3	5.7	-0.5	1.0
7	P24	9.0	4.7	-0.2	1.3
7	P25	8.9	5.5	-0.3	2.4
8	P1	8.6	0.0	0.5	0.7
8	P2	9.0	-0.1	0.0	0.5
8	P3	9.1	-0.2	-0.1	0.3
8	P4	9.2	-0.2	0.2	0.2
8	P5	9.2	0.0	-0.1	0.3
8	P6	9.4	-0.2	0.2	0.5
8	P7	8.4	-0.1	1.1	1.0
8	P8	8.6	-0.1	0.2	0.8
8	P9	8.6	-0.4	0.9	1.0

Part description: SEM/TEM

8	P10	8.7	-0.1	0.6	0.5
8	P11	9.1	0.0	0.6	0.3
8	P12	9.0	-0.2	0.3	0.2
8	P13	8.8	0.1	0.6	0.4
8	P14	9.3	0.1	-0.6	1.6
8	P15	9.7	-0.2	-0.8	2.1
8	P16	9.4	-0.3	-0.9	0.8
8	P17	9.2	-0.3	-0.9	1.2
8	P18	8.9	0.0	-0.6	2.9
8	P19	9.2	0.1	-0.6	0.4
8	P20	9.8	-0.3	-0.6	-0.1
8	P21	9.3	-0.1	-0.1	0.2
8	P22	9.5	0.2	-0.4	0.1
8	P23	9.5	0.0	-0.7	0.1
8	P24	9.0	0.0	0.0	0.2
8	P25	9.1	0.0	-0.7	0.7

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	250 Cycles	Thermal	Humidity
1	P1	9.1	0.2	0.2	0.0
1	P2	9.3	-0.2	0.0	-0.1
1	P3	9.1	0.0	0.3	0.0
1	P4	9.3	-0.3	-0.2	-0.6
1	P5	9.2	0.0	0.2	-0.1
1	P6	9.0	-0.1	1.1	-0.5
1	P7	8.7	-0.1	1.0	3.9
1	P8	8.9	0.3	0.2	0.5
1	P9	9.2	0.1	0.1	-0.6
1	P10	8.8	0.2	0.2	0.1
1	P11	8.8	0.5	0.5	0.0
1	P12	9.0	0.1	0.6	0.7
1	P13	9.1	0.3	0.3	1.3
1	P14	9.7	0.3	-1.2	-0.2
1	P15	9.8	0.4	-1.5	-0.3
1	P16	9.7	0.1	-1.3	0.0
1	P17	9.6	0.8	-1.1	-0.5
1	P18	9.8	0.9	-1.2	-0.6
1	P19	9.6	0.3	-0.1	-0.4
1	P20	10.1	0.4	-1.8	-0.1
1	P21	9.4	0.0	-0.5	0.2
1	P22	10.1	0.0	-1.3	-0.7
1	P23	10.0	-0.5	-1.1	-0.5
1	P24	9.4	0.2	-0.5	-0.4
1	P25	9.7	0.2	-1.2	-0.4
2	P1	9.1	0.7	0.3	0.1
2	P2	9.0	1.4	1.0	0.0
2	P3	9.3	0.7	0.4	0.0

## Part description: SEM/TEM

2	P4	9.7	0.2	-0.4	0.2
2	P5	9.5	1.1	-0.1	0.4
2	P6	9.6	2.1	0.2	0.5
2	P7	8.6	0.9	0.2	-0.2
2	P8	8.7	1.0	0.8	0.0
2	P9	9.0	0.6	0.1	-0.1
2	P10	9.1	0.7	0.0	0.1
2	P11	9.2	0.6	-0.1	-0.1
2	P12	9.0	1.1	0.3	0.5
2	P13	9.1	0.9	-0.3	1.1
2	P14	8.9	0.7	0.1	0.7
2	P15	9.0	0.4	0.2	1.7
2	P16	8.8	0.8	0.2	0.4
2	P17	9.0	0.9	0.3	0.7
2	P18	9.1	1.3	0.0	1.4
2	P19	8.7	1.2	0.1	0.5
2	P20	9.6	0.4	0.1	0.4
2	P21	9.4	0.2	0.0	0.2
2	P22	9.5	0.4	-0.1	0.1
2	P23	9.3	0.5	0.2	0.1
2	P24	9.2	1.1	0.1	2.0
2	P25	8.8	1.4	0.4	0.8
3	P1	8.7	0.1	0.3	1.1
3	P2	8.8	0.5	0.2	1.0
3	P3	8.9	0.5	0.2	0.7
3	P4	9.2	0.1	-0.3	0.6
3	P5	9.0	0.1	-0.2	0.7
3	P6	9.5	0.6	0.3	0.0
3	P7	8.6	0.2	0.4	1.3
3	P8	8.6	0.7	1.7	1.7
3	P9	8.6	0.4	0.3	1.0
3	P10	9.3	0.5	0.7	1.4
3	P11	9.5	0.6	-0.4	0.2
3	P12	9.3	1.3	0.0	0.9
3	P13	8.8	0.9	0.0	0.8
3	P14	9.1	0.1	-0.1	1.7
3	P15	9.1	0.7	-0.4	3.0
3	P16	8.9	0.9	0.2	2.0
3	P17	8.8	0.4	-0.1	1.3
3	P18	8.7	0.2	0.1	1.5
3	P19	9.2	-0.1	-0.4	1.8
3	P20	9.7	0.0	-0.8	0.0
3	P21	9.3	-0.3	-0.2	0.5
3	P22	9.0	-0.3	0.3	1.3
3	P23	9.1	-0.3	-0.2	0.9
3	P24	9.2	0.2	0.0	1.0
3	P25	8.7	0.1	0.2	1.1
4	P1	8.9	0.4	0.3	0.8

## Part description: SEM/TEM

4	P2	8.9	0.2	0.0	0.5
4	P3	9.4	0.5	1.0	0.3
4	P4	9.0	0.3	0.5	0.2
4	P5	8.9	0.3	0.7	0.7
4	P6	9.3	0.0	0.6	0.7
4	P7	8.8	0.3	0.8	0.4
4	P8	8.9	0.0	0.6	0.1
4	P9	8.8	0.6	0.8	0.4
4	P10	9.2	0.3	0.3	0.1
4	P11	8.7	0.6	1.2	0.3
4	P12	8.9	0.1	0.8	0.3
4	P13	9.1	0.6	0.0	0.9
4	P14	9.4	0.5	-0.5	0.8
4	P15	9.9	0.1	-1.0	1.0
4	P16	9.6	0.4	-0.8	0.8
4	P17	9.5	0.9	-0.3	1.6
4	P18	9.2	0.9	-0.2	0.5
4	P19	9.5	0.5	-0.8	1.0
4	P20	9.7	1.2	0.1	0.5
4	P21	9.2	0.6	-0.1	0.8
4	P22	9.6	0.6	-0.2	0.4
4	P23	10.2	1.0	-0.4	0.2
4	P24	9.6	0.4	-0.4	0.7
4	P25	9.1	0.4	0.1	0.6
5	P1	9.3	-0.4	-0.5	-0.1
5	P2	9.0	-0.3	1.0	0.0
5	P3	9.5	-0.6	1.7	0.5
5	P4	9.6	-0.5	0.6	-0.1
5	P5	9.5	-0.5	-0.2	0.9
5	P6	9.7	-0.8	-0.1	-0.4
5	P7	8.9	-0.2	0.1	0.3
5	P8	8.8	-0.1	1.0	-0.1
5	P9	8.9	-0.4	0.8	0.3
5	P10	9.0	-0.1	-0.1	1.7
5	P11	9.5	-0.4	-0.3	1.1
5	P12	8.9	-0.2	1.2	0.7
5	P13	9.5	-0.1	0.5	1.4
5	P14	9.2	0.1	-0.3	0.3
5	P15	9.0	0.2	0.5	2.8
5	P16	9.1	-0.1	-0.1	0.0
5	P17	9.5	0.3	-0.6	0.3
5	P18	8.8	0.5	0.2	0.3
5	P19	8.4	0.7	0.6	0.2
5	P20	9.8	0.1	-0.7	-0.4
5	P21	9.3	0.1	0.1	-0.3
5	P22	9.0	0.3	0.0	2.9
5	P23	9.2	0.8	0.0	1.6
5	P24	8.9	1.1	0.0	2.3

## Part description: SEM/TEM

5	P25	8.7	-0.2	0.5	-0.2
6	P1	8.7	0.8	0.2	-0.1
6	P2	8.8	0.3	0.1	0.2
6	P3	9.0	0.6	-0.3	0.4
6	P4	9.0	0.1	0.3	0.2
6	P5	9.0	0.4	-0.1	-0.1
6	P6	9.3	0.4	0.4	1.1
6	P7	8.8	0.4	-0.2	0.1
6	P8	8.8	0.1	-0.1	0.0
6	P9	8.8	0.6	-0.1	0.2
6	P10	9.4	-0.2	-0.4	0.0
6	P11	9.2	0.4	0.0	-0.4
6	P12	8.9	0.8	0.8	0.6
6	P13	8.9	0.9	0.3	0.4
6	P14	9.1	0.2	-0.1	1.2
6	P15	9.1	0.0	-0.5	0.1
6	P16	9.0	-0.3	-0.1	0.6
6	P17	9.1	-0.5	0.0	-0.2
6	P18	8.7	-0.2	0.2	0.6
6	P19	8.7	0.5	-0.2	0.0
6	P20	9.4	-0.1	0.5	-0.2
6	P21	9.0	-0.1	0.4	-0.1
6	P22	9.1	0.0	0.1	-0.2
6	P23	9.0	0.2	0.3	-0.2
6	P24	8.7	0.4	0.2	0.6
6	P25	8.7	0.1	0.1	0.3
7	P1	9.0	0.5	0.3	0.3
7	P2	9.4	-0.2	-0.2	-0.2
7	P3	9.3	0.1	-0.6	0.2
7	P4	9.4	0.1	-0.2	0.9
7	P5	9.7	-0.4	-0.5	-0.6
7	P6	9.8	-0.5	-0.4	-0.6
7	P7	9.1	-0.1	-0.3	0.0
7	P8	9.0	-0.4	0.3	-0.2
7	P9	9.0	-0.4	-0.2	-0.3
7	P10	9.2	0.0	-0.2	0.4
7	P11	9.1	-0.1	-0.2	0.3
7	P12	9.0	0.1	0.3	0.5
7	P13	9.3	-0.1	-0.8	-0.4
7	P14	9.3	-0.1	-0.8	0.6
7	P15	9.3	-0.2	-0.8	-0.1
7	P16	9.1	-0.1	-0.6	0.5
7	P17	8.9	0.3	-0.5	0.3
7	P18	9.3	0.1	-0.9	0.3
7	P19	9.5	-0.2	-0.8	-0.1
7	P20	9.6	0.0	-0.4	0.0
7	P21	9.4	-0.3	-0.5	-0.2
7	P22	9.1	0.1	0.6	0.3

Part description: SEM/TEM

7	P23	9.2	-0.3	0.2	-0.2
7	P24	9.1	-0.2	-0.2	-0.1
7	P25	8.9	-0.4	-0.3	0.0
8	P1	8.9	0.5	0.3	0.2
8	P2	9.0	0.1	-0.3	0.9
8	P3	9.4	-0.6	-0.3	0.0
8	P4	9.7	-0.4	-0.5	-0.4
8	P5	9.7	-0.4	-0.5	-0.3
8	P6	9.9	-0.7	-0.2	-0.4
8	P7	8.9	0.0	1.0	1.4
8	P8	9.0	0.1	0.2	1.0
8	P9	8.9	0.6	0.7	1.0
8	P10	9.1	0.0	0.0	0.0
8	P11	9.2	-0.1	0.3	0.1
8	P12	9.2	-0.2	0.2	0.1
8	P13	9.8	-0.1	-1.1	-1.0
8	P14	9.6	0.4	-1.2	1.4
8	P15	9.9	-0.1	-1.4	-0.6
8	P16	9.4	0.8	-1.0	-0.1
8	P17	9.4	0.9	-1.2	0.7
8	P18	9.2	0.0	-1.0	0.3
8	P19	9.3	1.0	-0.2	-0.1
8	P20	10.0	0.4	-0.8	0.4
8	P21	10.3	-0.4	-1.1	-0.7
8	P22	9.7	0.2	-0.5	0.5
8	P23	9.8	0.0	-1.0	-0.3
8	P24	9.2	-0.2	-0.2	-0.1
8	P25	9.5	0.0	-0.6	0.1

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	500 Cycles	Thermal	Humidity
1	P1	9.5	0.9	1.4	1.4
1	P2	9.6	0.6	-0.4	0.5
1	P3	9.8	0.0	-0.6	-0.6
1	P4	9.8	0.1	-0.2	-0.1
1	P5	9.7	0.7	0.0	-0.1
1	P6	9.9	0.2	-0.2	0.1
1	P7	8.9	-0.2	0.0	-0.2
1	P8	9.0	0.1	0.2	-0.1
1	P9	9.3	0.1	-0.5	-0.6
1	P10	9.3	0.1	-0.5	-0.2
1	P11	9.1	-0.2	-0.1	-0.5
1	P12	9.2	0.1	0.2	-0.2
1	P13	9.2	0.1	0.0	-0.3
1	P14	9.4	-0.2	0.2	0.0
1	P15	9.5	-0.2	-0.3	0.2
1	P16	9.1	0.1	0.5	0.2

## Part description: SEM/TEM

1	P17	9.2	-0.2	-0.4	0.2
1	P18	9.5	-0.5	-0.1	-0.3
1	P19	9.4	-0.3	0.0	0.0
1	P20	10.1	-0.3	-0.2	0.2
1	P21	9.8	0.3	0.1	0.9
1	P22	9.8	-0.2	-0.2	0.3
1	P23	9.5	-0.1	0.4	0.7
1	P24	9.5	-0.1	0.5	0.6
1	P25	9.4	-0.2	0.2	-0.2
2	P1	8.7	-0.2	1.0	0.6
2	P2	9.3	-0.3	0.5	-0.7
2	P3	9.2	0.4	0.7	-0.1
2	P4	9.1	0.4	0.6	-0.3
2	P5	9.4	0.1	-0.2	-0.4
2	P6	9.1	-0.1	0.6	-0.3
2	P7	8.5	0.3	1.3	0.1
2	P8	8.8	0.0	0.3	-0.3
2	P9	8.7	0.0	0.9	0.0
2	P10	8.8	0.4	0.9	0.2
2	P11	9.0	0.0	0.5	0.4
2	P12	9.2	-0.3	0.3	0.0
2	P13	9.0	0.4	-0.3	0.0
2	P14	9.5	0.2	0.1	0.1
2	P15	9.1	0.8	0.1	0.2
2	P16	8.7	0.8	0.0	0.6
2	P17	8.7	0.8	-0.2	0.2
2	P18	8.6	0.6	0.6	1.0
2	P19	8.5	1.0	0.1	0.8
2	P20	9.4	0.1	-0.3	0.0
2	P21	9.0	0.0	-0.2	0.0
2	P22	8.8	0.6	-0.3	-0.1
2	P23	8.9	1.5	1.7	3.8
2	P24	8.7	0.5	1.7	4.2
2	P25	8.6	0.0	-0.3	0.1
3	P1	8.8	0.3	0.1	0.2
3	P2	8.7	0.0	0.3	0.9
3	P3	9.1	0.2	0.0	0.0
3	P4	8.9	0.0	0.5	0.1
3	P5	8.8	-0.3	-0.1	0.7
3	P6	8.8	0.1	-0.3	2.1
3	P7	8.4	0.2	0.5	0.2
3	P8	8.6	0.2	0.5	0.0
3	P9	8.6	-0.1	0.1	-0.1
3	P10	8.4	0.1	0.1	0.1
3	P11	8.5	0.1	0.0	0.0
3	P12	8.4	0.0	-0.1	1.4
3	P13	8.8	0.0	0.1	0.1
3	P14	8.7	0.5	0.3	1.1

## Part description: SEM/TEM

3	P15	9.0	0.0	-0.1	0.5
3	P16	8.8	0.5	0.2	0.6
3	P17	9.3	-0.2	-0.5	-0.3
3	P18	9.0	0.3	0.0	0.2
3	P19	8.7	0.3	0.5	0.5
3	P20	9.6	-0.5	0.1	-0.1
3	P21	9.4	0.2	0.4	0.1
3	P22	9.1	0.2	0.2	0.1
3	P23	9.0	0.2	0.5	0.1
3	P24	9.1	-0.2	0.5	-0.1
3	P25	9.1	0.3	0.2	0.0
4	P1	8.9	-0.3	1.1	1.1
4	P2	8.9	-0.3	0.5	0.5
4	P3	9.3	-0.5	0.8	0.9
4	P4	9.0	-0.2	0.1	0.4
4	P5	8.7	0.5	1.0	0.7
4	P6	9.2	0.1	0.6	2.1
4	P7	8.6	0.4	0.4	1.6
4	P8	8.4	0.4	0.8	1.1
4	P9	8.8	0.1	0.5	1.4
4	P10	8.7	0.2	0.4	1.4
4	P11	8.6	0.3	1.0	1.6
4	P12	8.6	1.2	1.4	2.5
4	P13	8.7	0.6	0.4	2.2
4	P14	9.1	-0.1	0.5	0.4
4	P15	9.3	0.2	0.2	0.3
4	P16	9.2	0.3	0.0	0.5
4	P17	9.3	0.4	0.0	0.3
4	P18	9.1	0.2	0.2	1.0
4	P19	9.1	0.2	0.4	0.6
4	P20	9.9	-0.4	1.0	0.9
4	P21	9.5	0.0	0.4	0.6
4	P22	9.4	0.4	2.1	2.1
4	P23	9.7	-0.2	0.3	1.4
4	P24	9.3	0.1	0.8	0.9
4	P25	9.4	-0.4	0.0	0.4
5	P1	8.7	0.2	0.2	0.2
5	P2	8.9	0.1	0.2	0.2
5	P3	9.2	-0.3	-0.1	0.0
5	P4	9.1	-0.1	-0.1	-0.3
5	P5	9.1	-0.1	0.0	0.6
5	P6	9.3	-0.1	-0.5	-0.3
5	P7	8.8	-0.1	-0.2	-0.3
5	P8	8.7	0.3	0.3	0.1
5	P9	8.8	0.0	0.0	-0.1
5	P10	8.7	0.3	0.4	-0.1
5	P11	9.0	-0.3	-0.1	0.1
5	P12	8.8	-0.1	-0.2	-0.2

## Part description: SEM/TEM

5	P13	8.9	0.2	0.0	0.0
5	P14	9.2	0.1	0.7	0.0
5	P15	9.2	0.1	0.9	-0.1
5	P16	9.3	-0.2	0.3	0.8
5	P17	9.0	0.3	-0.3	-0.1
5	P18	9.1	-0.2	-0.3	-0.2
5	P19	9.1	-0.2	0.3	0.0
5	P20	9.6	0.1	1.6	1.1
5	P21	9.0	0.0	0.5	2.3
5	P22	9.4	-0.4	-0.1	0.2
5	P23	9.3	-0.1	0.1	0.9
5	P24	9.3	-0.2	0.3	1.7
5	P25	9.6	-0.5	-0.3	-0.4
6	P1	9.6	-0.1	-0.4	-0.2
6	P2	9.4	-0.9	-0.2	0.4
6	P3	9.8	-0.7	0.3	0.3
6	P4	9.7	-0.7	0.5	0.7
6	P5	10.2	-0.9	-0.5	-0.5
6	P6	9.3	-0.2	0.2	0.5
6	P7	9.5	-0.4	0.2	0.4
6	P8	8.9	0.2	-0.2	0.0
6	P9	8.7	-0.2	0.2	0.1
6	P10	9.1	0.2	0.3	0.4
6	P11	9.2	-0.1	-0.2	-0.1
6	P12	9.3	0.1	0.0	0.5
6	P13	9.6	0.0	-0.1	0.3
6	P14	9.5	-0.6	-0.2	-0.3
6	P15	9.4	-0.3	-0.1	-0.1
6	P16	9.3	-0.5	-0.4	-0.4
6	P17	9.4	-0.3	-0.2	0.1
6	P18	9.1	-0.1	0.3	0.6
6	P19	9.3	0.0	0.2	-0.3
6	P20	9.8	-0.2	0.0	0.8
6	P21	9.3	-0.2	0.5	0.6
6	P22	9.2	2.8	3.2	3.6
6	P23	9.4	0.1	1.2	1.3
6	P24	9.1	0.7	1.3	4.6
6	P25	8.9	0.1	0.5	0.4
7	P1	9.2	-0.1	0.5	0.0
7	P2	9.6	0.0	0.0	0.1
7	P3	9.7	-0.1	-0.3	-0.4
7	P4	9.5	-0.3	0.5	0.7
7	P5	9.6	-0.2	1.6	1.5
7	P6	9.7	-0.1	1.2	0.9
7	P7	9.0	0.0	0.4	0.1
7	P8	9.2	0.2	0.3	-0.1
7	P9	9.1	1.8	0.4	0.2
7	P10	9.0	0.2	0.2	0.1

Part description: SEM/TEM

7	P11	9.0	0.1	0.1	0.0
7	P12	9.2	-0.1	0.6	0.1
7	P13	9.4	0.0	0.7	-0.2
7	P14	9.4	0.0	0.5	0.2
7	P15	9.6	-0.2	0.3	0.1
7	P16	9.5	-0.4	-0.1	-0.3
7	P17	9.1	0.2	0.1	0.7
7	P18	9.6	0.1	0.0	1.1
7	P19	9.3	0.5	1.3	1.9
7	P20	10.0	-0.2	0.7	0.1
7	P21	9.7	-0.2	-0.3	-0.1
7	P22	9.3	0.5	0.6	0.6
7	P23	9.7	-0.2	0.0	-0.1
7	P24	9.3	-0.1	0.4	-0.2
7	P25	9.1	0.1	0.8	0.4
8	P1	10.1	-1.2	0.0	-0.6
8	P2	10.1	-1.0	0.0	-0.5
8	P3	9.8	-0.8	0.3	-0.5
8	P4	9.9	-0.6	0.9	-0.3
8	P5	9.6	-0.6	0.2	-0.1
8	P6	10.1	-1.1	0.4	-0.3
8	P7	9.1	-0.2	0.8	0.6
8	P8	9.3	-0.4	0.6	1.9
8	P9	9.2	-0.2	0.8	0.0
8	P10	9.3	-0.5	0.3	0.3
8	P11	9.6	-0.6	1.1	-0.3
8	P12	9.6	-0.7	1.4	-0.3
8	P13	9.7	-0.5	1.3	-0.5
8	P14	9.5	-0.4	1.5	0.2
8	P15	9.1	0.1	1.9	0.9
8	P16	9.5	-0.2	1.2	-0.1
8	P17	9.2	-0.5	0.0	0.0
8	P18	9.2	-0.4	-0.1	0.4
8	P19	9.2	-0.4	-0.1	0.2
8	P20	10.0	-0.9	-0.7	-0.4
8	P21	9.3	-0.5	0.5	-0.3
8	P22	9.6	-0.7	-0.1	-0.2
8	P23	9.2	-0.4	-0.2	0.0
8	P24	9.1	-0.3	0.3	0.3
8	P25	8.9	-0.5	0.0	0.2

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	1000 Cycles	Thermal	Humidity
1	P1	9.3	-0.6	-0.6	-0.3
1	P2	9.5	-0.3	-0.9	-0.6
1	P3	9.6	-0.4	-0.7	-0.3
1	P4	9.3	-0.1	-0.1	-0.2

## Part description: SEM/TEM

1	P5	9.3	0.3	0.3	0.8
1	P6	9.2	0.2	-0.1	0.4
1	P7	9.0	-0.1	-0.5	-0.2
1	P8	9.1	0.1	-0.5	-0.3
1	P9	9.1	-0.2	-0.1	0.7
1	P10	9.1	-0.1	-0.2	0.0
1	P11	8.9	0.6	0.0	0.4
1	P12	9.5	-0.1	-0.3	0.1
1	P13	9.0	0.0	0.2	0.3
1	P14	8.8	0.4	-0.1	0.8
1	P15	8.8	0.5	0.4	0.4
1	P16	8.8	0.3	-0.2	-0.1
1	P17	8.6	0.3	0.4	0.4
1	P18	9.0	-0.3	-0.4	-0.1
1	P19	8.6	0.4	0.6	0.5
1	P20	9.1	0.3	0.0	-0.2
1	P21	8.8	0.6	1.7	2.3
1	P22	8.8	0.4	1.1	4.1
1	P23	8.9	0.6	1.6	3.9
1	P24	8.5	0.7	1.3	3.7
1	P25	8.7	0.1	1.2	3.8
2	P1	9.4	-0.4	-0.3	0.5
2	P2	9.0	-0.4	-0.3	0.5
2	P3	8.9	-0.3	-0.3	-0.1
2	P4	9.1	-0.2	-0.1	1.3
2	P5	9.2	-0.4	0.1	0.7
2	P6	9.3	-0.5	-0.5	-0.1
2	P7	8.7	0.0	1.5	25.8
2	P8	8.7	0.2	0.0	1.4
2	P9	8.9	0.1	-0.4	0.1
2	P10	8.9	0.5	-0.1	-0.1
2	P11	8.9	0.2	-0.4	0.2
2	P12	9.5	-0.4	-0.5	-0.5
2	P13	8.9	0.3	0.0	0.5
2	P14	9.2	0.1	-0.2	0.3
2	P15	8.8	0.1	0.4	1.1
2	P16	9.2	-0.1	0.2	1.0
2	P17	9.8	-0.2	-0.5	-0.1
2	P18	9.6	0.1	-0.1	0.4
2	P19	9.7	-0.5	-0.2	0.6
2	P20	9.8	-0.4	-0.1	0.3
2	P21	9.2	0.0	-0.2	0.4
2	P22	9.5	0.1	-0.6	-0.2
2	P23	9.7	0.2	-0.3	0.0
2	P24	9.5	0.1	0.2	0.1
2	P25	9.3	-0.1	0.0	0.8
3	P1	9.4	0.0	-0.1	0.0
3	P2	9.3	-0.4	-0.1	-0.2

## Part description: SEM/TEM

3	P3	9.4	-0.4	-0.3	-0.1
3	P4	9.6	-0.2	-0.3	0.2
3	P5	9.6	0.0	0.5	0.2
3	P6	9.4	-0.2	0.0	0.6
3	P7	9.0	0.2	-0.2	-0.2
3	P8	9.2	0.8	0.3	0.1
3	P9	9.1	0.6	0.2	0.3
3	P10	9.1	0.2	0.0	0.1
3	P11	9.4	0.2	0.0	-0.3
3	P12	9.2	0.2	0.4	0.3
3	P13	10.4	-0.8	-0.9	-0.8
3	P14	10.1	-0.3	0.2	-0.1
3	P15	10.0	0.4	-0.4	-0.6
3	P16	10.0	1.1	0.1	0.0
3	P17	10.1	0.0	-0.4	0.0
3	P18	10.5	-0.7	-1.5	-0.9
3	P19	10.0	0.3	-0.7	-0.1
3	P20	11.0	-0.3	-0.4	-0.4
3	P21	10.6	0.1	0.4	0.3
3	P22	10.7	-1.2	-1.4	-0.7
3	P23	10.5	-0.6	-0.9	-1.1
3	P24	10.0	-0.6	-0.3	-0.3
3	P25	9.7	0.1	-0.4	-0.1
4	P1	8.9	-0.1	-0.1	1.2
4	P2	9.0	-0.4	0.0	0.2
4	P3	9.0	-0.2	0.4	1.0
4	P4	9.1	0.1	0.5	0.8
4	P5	9.1	-0.2	0.4	1.2
4	P6	9.4	0.1	1.9	2.9
4	P7	8.5	0.2	0.1	0.5
4	P8	8.6	0.3	0.6	0.6
4	P9	8.9	-0.1	0.0	0.0
4	P10	8.7	0.8	1.4	1.2
4	P11	8.7	0.3	0.7	1.4
4	P12	8.9	-0.1	0.6	0.8
4	P13	8.8	0.2	0.2	0.2
4	P14	9.5	0.0	0.0	0.5
4	P15	9.4	0.5	0.1	0.5
4	P16	9.5	0.5	0.2	0.6
4	P17	9.3	0.1	0.4	0.7
4	P18	9.4	0.8	0.1	0.1
4	P19	9.5	0.3	0.0	0.0
4	P20	9.8	0.2	0.2	0.7
4	P21	9.5	-0.5	-0.4	0.1
4	P22	9.7	-0.4	-0.8	-0.4
4	P23	9.1	0.1	-0.2	0.8
4	P24	9.2	-0.3	-0.2	0.4
4	P25	9.4	-0.2	-0.3	0.1

## Part description: SEM/TEM

5	P1	9.2	1.3	0.1	0.1
5	P2	9.3	-0.4	0.3	0.0
5	P3	9.7	-0.4	0.8	0.1
5	P4	9.6	-0.1	-0.4	-0.1
5	P5	10.0	-0.6	-0.6	0.4
5	P6	9.5	0.1	-0.2	0.2
5	P7	9.2	0.2	0.0	0.9
5	P8	9.2	0.2	0.4	0.3
5	P9	9.2	0.7	0.4	0.4
5	P10	9.2	0.4	0.2	0.6
5	P11	9.4	0.6	-0.1	0.5
5	P12	9.3	0.3	-0.7	-0.3
5	P13	9.2	1.0	0.5	0.3
5	P14	9.8	0.9	0.3	0.0
5	P15	9.8	0.6	0.6	0.4
5	P16	9.5	0.4	0.0	0.3
5	P17	9.8	0.4	-0.6	0.0
5	P18	9.5	0.4	0.0	0.0
5	P19	9.5	0.4	0.4	0.3
5	P20	10.4	0.2	-0.4	-0.1
5	P21	9.6	0.5	-0.2	0.1
5	P22	10.2	0.8	0.1	0.2
5	P23	9.8	1.0	2.3	2.4
5	P24	9.9	1.5	1.3	3.5
5	P25	9.7	0.2	-0.6	-0.1
6	P1	10.4	-1.3	-0.1	2.7
6	P2	10.5	-0.9	-1.3	-0.4
6	P3	10.2	-0.3	-0.9	0.9
6	P4	11.0	-1.3	-1.6	0.2
6	P5	10.9	-1.8	-1.6	1.3
6	P6	9.9	-0.9	-0.4	0.7
6	P7	9.9	-0.1	-0.3	1.7
6	P8	9.9	-0.3	-0.7	1.8
6	P9	9.5	0.6	0.1	2.0
6	P10	10.2	-0.7	-0.9	0.6
6	P11	10.0	-0.5	-0.5	-0.6
6	P12	10.6	-1.0	-0.2	0.1
6	P13	9.8	0.0	0.7	0.6
6	P14	10.8	-0.4	-0.7	-0.8
6	P15	10.7	-1.1	-0.9	-0.7
6	P16	10.2	-0.5	-0.4	-0.5
6	P17	10.4	0.1	-0.5	0.4
6	P18	10.2	0.6	-0.3	0.3
6	P19	10.5	1.5	1.1	0.1
6	P20	10.2	-0.2	0.5	0.1
6	P21	10.7	0.1	-0.3	-0.3
6	P22	11.0	-0.8	-0.2	-0.5
6	P23	10.8	0.0	-0.2	-0.6

## Part description: SEM/TEM

6	P24	10.2	-0.2	0.3	0.1
6	P25	10.1	1.0	1.4	0.4
7	P1	9.0	0.5	0.0	0.3
7	P2	9.1	-0.2	0.1	0.5
7	P3	9.3	0.6	1.1	2.5
7	P4	8.9	0.1	0.6	0.6
7	P5	9.1	1.8	2.3	3.4
7	P6	9.3	1.2	1.9	3.6
7	P7	8.7	0.6	0.6	0.5
7	P8	8.8	0.3	0.4	0.2
7	P9	9.0	0.1	0.3	0.9
7	P10	8.7	0.4	0.5	0.8
7	P11	8.8	0.3	0.4	0.6
7	P12	9.0	0.3	0.6	1.8
7	P13	9.0	0.1	0.5	0.5
7	P14	9.2	1.0	1.7	0.4
7	P15	9.1	0.7	0.5	0.2
7	P16	9.1	0.3	1.3	0.7
7	P17	8.9	0.5	1.4	0.8
7	P18	8.9	0.6	1.1	0.7
7	P19	9.0	0.6	1.3	0.5
7	P20	9.8	0.3	0.4	0.0
7	P21	9.2	0.3	0.8	0.5
7	P22	9.3	0.5	0.5	0.2
7	P23	9.4	-0.4	0.3	-0.1
7	P24	9.0	-0.1	0.6	0.5
7	P25	8.8	0.0	0.7	0.2
8	P1	9.2	-0.3	-0.5	-0.7
8	P2	9.4	0.1	-0.7	-0.3
8	P3	9.6	-0.7	-1.0	-1.0
8	P4	9.8	0.0	-1.1	-0.7
8	P5	9.4	-0.3	-0.3	-0.3
8	P6	9.5	-0.4	-0.7	-0.6
8	P7	9.3	-0.6	-0.6	-0.2
8	P8	9.5	-0.8	-0.7	-0.8
8	P9	9.8	-0.9	-0.3	-0.9
8	P10	9.8	-0.7	-0.7	-1.1
8	P11	9.5	-0.5	-0.5	-0.4
8	P12	9.5	-0.4	-0.4	-0.3
8	P13	9.3	-0.2	-0.1	0.1
8	P14	10.6	-1.0	-1.2	-1.0
8	P15	9.4	-0.4	0.3	-0.1
8	P16	9.5	-0.4	-0.7	0.2
8	P17	9.1	0.0	0.1	0.5
8	P18	9.0	0.0	0.0	0.3
8	P19	9.0	0.5	0.4	0.3
8	P20	9.7	-0.7	0.2	0.2
8	P21	9.2	0.1	0.0	0.4

Part description: SEM/TEM

8	P22	9.3	0.4	-0.3	-0.1
8	P23	9.4	-0.2	-0.4	0.0
8	P24	9.1	-0.2	0.5	0.6
8	P25	8.8	0.3	0.0	0.5

	mOhm values	Actual	Delta	Delta	Delta
Board	Position	Initial	2500 Cycles	Thermal	Humidity
1	P1	9.0	0.2	0.6	0.5
1	P2	9.5	-0.5	0.0	0.2
1	P3	9.2	0.0	0.4	0.6
1	P4	9.1	-0.1	0.1	0.3
1	P5	9.1	-0.2	0.8	0.7
1	P6	9.6	-0.6	0.1	0.2
1	P7	9.0	0.1	0.5	2.5
1	P8	8.7	0.5	0.5	0.6
1	P9	9.1	0.1	0.4	1.5
1	P10	9.1	0.2	0.4	2.3
1	P11	9.1	-0.2	0.1	0.1
1	P12	8.7	0.6	0.6	1.4
1	P13	8.9	0.3	0.6	2.0
1	P14	9.9	-0.4	-0.2	-0.2
1	P15	10.0	-0.7	-0.4	-0.3
1	P16	9.5	-0.4	0.4	1.2
1	P17	10.4	0.2	2.4	1.2
1	P18	10.4	0.4	0.3	0.4
1	P19	9.5	0.5	0.5	1.5
1	P20	10.1	-0.2	0.2	0.2
1	P21	9.7	0.0	0.1	1.3
1	P22	9.9	-0.2	0.6	0.5
1	P23	10.3	0.4	1.4	2.9
1	P24	10.0	0.2	0.0	1.7
1	P25	9.8	0.0	0.8	0.8
2	P1	9.4	-0.7	-0.6	0.2
2	P2	8.9	0.0	-0.1	0.0
2	P3	9.6	0.0	-0.4	-0.4
2	P4	9.4	-0.2	-0.4	-0.3
2	P5	9.5	-0.5	-0.5	-0.4
2	P6	9.6	-0.6	-0.5	-0.1
2	P7	9.0	-0.3	-0.3	0.0
2	P8	9.1	-0.6	-0.6	-0.4
2	P9	9.3	-0.4	-0.3	-0.4
2	P10	9.5	-0.2	-0.6	-0.8
2	P11	9.0	-0.5	-0.1	-0.1
2	P12	9.2	-0.4	-0.6	-0.5
2	P13	9.3	-0.2	-0.1	-0.1
2	P14	9.3	-0.3	0.3	0.2

## Part description: SEM/TEM

2	P15	9.6	-0.5	0.0	0.3
2	P16	9.7	-0.5	3.9	19.2
2	P17	9.1	0.3	0.7	0.9
2	P18	9.4	-0.1	0.0	0.6
2	P19	9.4	-0.2	-0.4	-0.1
2	P20	9.8	-0.2	0.1	-0.3
2	P21	9.4	-0.2	0.5	0.5
2	P22	9.5	0.7	2.9	3.3
2	P23	9.7	-0.5	-0.5	-0.1
2	P24	9.4	-0.4	1.3	2.3
2	P25	9.1	-0.3	-0.4	0.0
3	P1	9.3	0.2	0.1	0.5
3	P2	9.4	0.3	-0.3	0.3
3	P3	9.9	-0.2	-0.3	0.8
3	P4	10.1	-0.4	0.0	0.5
3	P5	9.8	0.0	0.0	1.5
3	P6	9.9	0.1	-0.2	3.4
3	P7	9.2	0.2	-0.3	0.4
3	P8	9.2	0.5	0.1	1.6
3	P9	9.1	0.2	0.4	0.4
3	P10	10.0	-0.4	-0.9	0.0
3	P11	9.3	0.1	0.2	1.8
3	P12	9.3	0.1	0.5	2.0
3	P13	9.3	0.4	0.3	1.3
3	P14	9.1	0.1	0.3	0.6
3	P15	9.3	0.2	0.2	0.3
3	P16	9.0	0.1	0.3	0.4
3	P17	9.1	0.3	0.1	0.6
3	P18	9.3	-0.1	-0.2	0.5
3	P19	8.9	1.0	0.4	0.8
3	P20	9.7	0.2	0.2	1.4
3	P21	9.6	-0.4	-0.3	0.5
3	P22	9.5	-0.2	-0.2	0.5
3	P23	9.6	0.1	0.2	0.5
3	P24	9.7	-0.1	0.3	1.6
3	P25	9.3	0.2	0.8	1.4
4	P1	9.3	-0.4	-0.5	0.1
4	P2	9.5	-0.5	-0.8	-0.5
4	P3	10.3	0.0	-0.9	-0.7
4	P4	9.6	0.5	-0.5	0.2
4	P5	9.4	0.3	0.0	1.3
4	P6	9.1	0.2	0.1	0.6
4	P7	9.7	-0.1	-0.8	-0.3
4	P8	9.6	0.0	-0.7	-0.2
4	P9	9.9	0.1	-1.2	-1.0
4	P10	9.8	0.0	-0.8	-0.3
4	P11	9.5	-0.1	-0.3	-0.2
4	P12	8.9	0.9	-0.4	0.6

## Part description: SEM/TEM

4	P13	9.8	-0.2	-0.7	-0.4
4	P14	9.4	0.6	0.6	0.6
4	P15	10.0	0.6	0.0	0.6
4	P16	9.4	0.1	0.5	0.7
4	P17	9.7	0.4	0.2	0.8
4	P18	9.4	0.5	0.4	0.6
4	P19	10.0	0.1	0.5	0.3
4	P20	13.5	-3.1	-3.5	-2.8
4	P21	9.5	-0.1	0.1	0.8
4	P22	9.6	2.9	0.5	1.4
4	P23	10.1	-0.5	0.1	0.4
4	P24	9.8	-0.1	-0.3	0.1
4	P25	9.5	0.5	0.4	0.9
5	P1	8.7	0.6	0.4	4.2
5	P2	8.9	0.9	1.9	5.3
5	P3	9.3	0.0	0.0	1.3
5	P4	9.2	0.1	0.5	5.5
5	P5	9.3	0.2	0.7	5.0
5	P6	9.1	0.0	0.1	2.3
5	P7	8.2	0.5	3.3	2.6
5	P8	8.5	0.0	-0.1	4.5
5	P9	8.8	1.3	0.7	1.6
5	P10	8.8	0.7	0.3	1.1
5	P11	8.8	0.1	-0.1	3.4
5	P12	9.0	-0.3	-0.3	6.7
5	P13	8.7	0.9	0.4	4.0
5	P14	8.8	2.7	4.6	7.3
5	P15	9.1	0.4	0.0	0.3
5	P16	8.8	0.0	0.4	2.4
5	P17	9.2	-0.3	0.1	2.7
5	P18	9.2	0.2	0.0	0.5
5	P19	9.3	0.5	-0.1	0.3
5	P20	9.6	0.5	0.6	0.7
5	P21	9.2	2.9	2.1	3.8
5	P22	9.4	1.0	1.4	3.4
5	P23	9.2	0.7	0.4	1.9
5	P24	9.4	0.6	0.5	4.4
5	P25	9.1	0.5	0.9	1.3
6	P1	9.0	0.0	0.1	0.3
6	P2	9.1	-0.3	0.4	1.1
6	P3	9.1	-0.4	0.2	1.0
6	P4	9.2	0.2	0.3	0.2
6	P5	9.0	-0.4	1.3	1.2
6	P6	9.6	-0.6	0.0	0.3
6	P7	8.6	-0.1	0.2	1.6
6	P8	8.7	-0.2	0.3	1.2
6	P9	8.7	0.2	0.5	0.5
6	P10	8.9	0.2	0.6	1.1

## Part description: SEM/TEM

6	P11	8.8	0.3	0.3	0.0
6	P12	8.9	-0.2	0.1	0.6
6	P13	8.8	0.1	0.3	0.8
6	P14	9.7	-0.8	-0.3	0.6
6	P15	9.5	-0.6	-0.1	-0.2
6	P16	9.2	-0.5	0.1	0.1
6	P17	9.1	0.3	0.4	0.9
6	P18	9.4	-0.3	0.0	0.0
6	P19	9.1	0.0	0.2	0.2
6	P20	9.9	0.0	2.9	18.6
6	P21	9.8	-0.6	2.4	9.3
6	P22	9.7	-0.7	0.6	1.2
6	P23	10.0	-0.7	-0.5	2.1
6	P24	9.6	-0.8	-0.4	4.8
6	P25	8.8	0.1	0.3	0.3
7	P1	9.9	-1.1	-1.1	-0.3
7	P2	9.4	-0.5	-0.5	0.9
7	P3	9.7	-0.3	-0.7	-0.2
7	P4	9.2	0.0	-0.2	0.5
7	P5	9.4	-0.4	-0.5	-0.1
7	P6	9.3	-0.4	-0.4	0.6
7	P7	9.8	-1.3	-1.1	-0.3
7	P8	9.6	-0.6	-1.1	0.0
7	P9	9.3	0.4	0.4	4.2
7	P10	9.1	-0.4	-0.4	0.0
7	P11	8.8	0.3	-0.4	0.3
7	P12	8.9	-0.1	-0.2	1.3
7	P13	9.2	-0.5	-0.6	0.1
7	P14	9.5	-0.5	-0.5	0.2
7	P15	10.0	-0.6	-0.9	-0.2
7	P16	9.8	-0.9	-0.8	0.4
7	P17	9.9	-0.9	-1.1	-0.2
7	P18	9.4	-0.2	-0.3	0.1
7	P19	9.0	0.0	0.4	1.6
7	P20	10.4	-1.0	-1.1	0.9
7	P21	10.1	-0.5	0.0	2.9
7	P22	10.2	-0.7	-0.4	1.5
7	P23	10.4	-1.1	-0.9	0.3
7	P24	10.0	-0.9	-0.4	1.3
7	P25	9.9	-0.7	-0.4	0.3
8	P1	8.9	-0.3	-0.2	0.7
8	P2	9.0	-0.3	-0.5	0.7
8	P3	9.3	-0.5	-0.5	1.3
8	P4	9.2	-0.5	-0.6	1.4
8	P5	9.3	-0.5	-0.6	1.0
8	P6	9.2	0.2	-0.4	1.1
8	P7	8.9	-0.4	-0.3	0.9
8	P8	8.6	0.3	0.0	1.5

Tracking Code: TC088--1593

Part #: SEM-125-02-03.0-H-D-WT/ TEM-125-02-03.0-H-D-WT

Part description: SEM/TEM

8	P9	8.9	-0.1	-0.3	0.3
8	P10	8.7	-0.5	-0.5	0.6
8	P11	8.8	-0.6	-0.6	1.1
8	P12	8.8	0.0	-0.3	1.1
8	P13	8.9	-0.4	-0.5	0.3
8	P14	9.4	-0.6	-0.3	0.4
8	P15	9.2	-0.3	0.4	2.3
8	P16	8.8	0.6	0.2	0.6
8	P17	9.1	-0.4	-0.5	0.2
8	P18	8.8	-0.3	0.0	8.7
8	P19	9.1	-0.2	-0.2	7.2
8	P20	9.6	-0.4	-0.2	1.0
8	P21	9.4	0.4	-0.1	0.4
8	P22	9.3	-0.4	-0.3	0.7
8	P23	9.2	0.0	0.0	1.1
8	P24	9.0	-0.3	-0.2	0.4
8	P25	9.0	0.2	0.0	1.2

## EQUIPMENT AND CALIBRATION SCHEDULES

**Equipment #:** MO-06

**Description:** Micro-Ohmmeter

**Manufacturer:** Keithley

**Model:** 580

**Serial #:** 1110525

**Accuracy:** See Manual

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

**Equipment #:** MO-07

**Description:** Multimeter / Data Acquisition System

**Manufacturer:** Keithley

**Model:** 2700

**Serial #:** 1116559

**Accuracy:** See Manual

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

**Equipment #:** MO-01

**Description:** Micro-Ohmmeter

**Manufacturer:** Keithley

**Model:** 580

**Serial #:** 0772740

**Accuracy:** See Manual

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

**Equipment #:** MO-03

**Description:** Multimeter /Data Acquisition System

**Manufacturer:** Keithley

**Model:** 2700

**Serial #:** 0791975

**Accuracy:** See Manual

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

**Equipment #:** TCT-03

**Description:** Dillon Quantrol TC2 Test Stand

**Manufacturer:** Dillon Quantrol

**Model:** TC2

**Serial #:** 02-1033-03

**Accuracy:** Speed Accuracy: +/- 5% of indicated speed; Displacement: +/- 5 micrometers.

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