

Test Report

Report NO. : **R10003-18**

Part Number : **G42VXXXXXHR**

Sample Qty : **5 PCS/Group**

Sample Description : **Normal**

Lot Number : **Sample**

Test Conclusion : The submitted samples comply with the stated requirement of the Product Specification .

Version	Description	Date	Tester
A	First released	8/8~10/10-2018	Miao

Prepared By/Date

Shine.Yin

QA Engineer

Approved By/Date

William.Fan

QA Manager






Index

1.0 Introduction.....	3
1.1 Purpose.....	3
1.2 Scope.....	3
1.3 Product Description.....	3
1.4 Sample Preparation.....	3
1.5 Acceptance Criterion.....	3
2.0 Main Test Program.....	3
2.1 Reference Document.....	3
2.2 Test Equipment List.....	4
2.3 Test Plan.....	5
2.4 Test Result summary.....	5
3.0 Test result details.....	6-41

1.0 Introduction

1.1 Purpose

This report contains the requirements, test procedures and results of a qualification test program on G42VXXXXXHR Connector.

Part Number	Description	Image
G42VX1XXXHR	MINI COOL EDGE IO CONNECTOR 0.6PITCH 38P STANDARD VERTICAL SMT TYPE	
G42VX2XXXHR	MINI COOL EDGE IO CONNECTOR 0.6PITCH 74P STANDARD VERTICAL SMT TYPE	
G42VX4XXXHR	MINI COOL EDGE IO CONNECTOR 0.6PITCH 124P STANDARD VERTICAL SMT TYPE	
G42VX5XXXHR	MINI COOL EDGE IO CONNECTOR 0.6PITCH 50P STANDARD VERTICAL SMT TYPE	
G42VX6XXXHR	MINI COOL EDGE IO CONNECTOR 0.6PITCH 148P STANDARD VERTICAL SMT TYPE	

1.2 Scope

This testing report covers electrical, mechanical and environmental performance of the Amphenol G42VX2XXXHR connector. The testing was performed between 08-08-2017 and 10-10-2018.

1.3 Product Description

G42VX2XXXHR It's fully compliance to RoHS & HF requirement.

1.4 Test Sample Preparation

55 pcs of Amphenol P/N G42VX2XXXHR Connector which were randomly taken from production line were used in the testing; the connectors are divided into 11 groups.

1.5 Acceptance Criterion of Qualification Test

All sample are tested in accordance with the specification shall meet the requirements set forth. Failure attributed to equipment malfunction, wrong test set-up, or human error shall not disqualify the product. When such failures occur, corrective action shall be taken and sample resubmitted for qualification.

2.0 Main Test Program

2.1 Reference Document

Item	standard
Visual Inspection	refer to product specification and drawing
current rating	EIA-364-70
Low low contact resistance	EIA-364-23
Insulation resistance	EIA-364-21
Dielectric withstanding voltage	EIA-364-20
Durability	EIA-364-09
Insertion/Withdrawal force	EIA-364-13
Normal force	refer to product specification and drawing
Contact retention	EIA-364-29
Vibration	EIA-364-28
Mechanical shock	EIA-364-27
Thermal shock	EIA-364-32
Temperature/Humidity cycle	EIA-364-31
High temperature life	EIA-364-17
Mixed Flowing Gas	EIA-364-65
Reflow	EIA-364-56
Solder ability	EIA-364-52
Salt spray	EIA-364-26

2.2 Test Equipment List

Table 1 Test Equipment List1

NO.:	Description	Manufacturer	Model	Test Item
Electrical Characteristics				
1	Milliohmmeter	Chroma	16502	LLCR
2	Insulation Resistance Tester	Chroma	19073	Insulation Resistance
3	withstanding voltage Tester	KIKUSUI	T0S5051	Dielectric Withstanding voltage
4	DC Power Supply	Kingrang	KR-051200	Temperature Rise
5	Data Acquisition Unit	Agilent	34970A	Temperature Rise
6	Digit Multimeter	Agilent	34401A	Voltage Drop
7	Dynamic DC Power supply	Agilent	N7970A	Temperature Rise and Hot Insertion/Withdrawal
8	Moment Disconnection Analyzer	NAC	NMS10	Vibration
Mechanical Characteristics				
9	45X Microscope	MT	MZS0745	Appearance and construction
10	Force Tester	SE Test systems	1220s	Insertion/Withdrawal force
11	Mechanical shock Tester	The third party	The third party	Mechanical shock
12	Vibration Tester	zhensheng	VS-200V-S	Vibration
Environmental Reliability				
13	Thermal Shock Tester	zhensheng	TSTC-A2	Thermal Shock
14	Programmable Temperature&Humidity Chamber	BAOYT	BYH-150CS	Temperature/Humidity cycling
15	Oven	BLUE	OV-500C-2Y	Temperature Life
16	Salt Spray Tester	KeDi	KD-90D	Salt Spray
17	Reflow Machine	SUNEAST	IPC-710N	Reflow
18	Mixed Flowing Gas Tester	WEISS	WK3-340/0 BSB	Mixed Flowing Gas
19	Solderability Tester	BAKON	BK-206	Solderability

2.3 Test Plan

Table 2 PRODUCT QUALIFICATION TEST GROUP & SEQUENCE

Test Item	Test Group	A	B	C	D	E	F	G	H	J	K	L
	Sample Q'ty	5	5	5	5	5	5	5	5	5	5	5
Visual And Dimensional Inspection		1,7	1	1,7	1,5	1	1,3	1,6	1,3	1,3	1,3	1,3
Low Level Contact Resistance		2,8	5, 11, 12, 15		2,6	6,9		2,7				
Insulation Resistance				3,8								
Dielectric Withstanding Voltage				2,9								
Durability(Preconditioning)			7									
Durability			8									
Mating			4,9			4						
Unmating			6, 10			5, 10						
Contact Normal Force							2					
Vibration		6										
Mechanical Shock		5										
Reseating		4	3, 13		3	3		3				
Thermal Shock			12	5								
Temperature/Humidity Cycling			14	6								
High Temperature Life (Preconditioning)						7						
High Temperature Life						8						
Temperature Rise								5				
Mixed Flowing Gas					4							
Solderability									2			
Resistance To Soldering Heat (Infrared Reflow)		3	2	4		2		4				
Wrenching Strength (W/Mated Cable Passive Latch)										2		
Wrenching Strength (W/Mated Cable Active Latch)											2	
Active Latch Retention Force												2

2.4 Test Result summary

Table 3 test result summary

TEST GROUP										
1	2	3	4	5	6	7	8	9	10	11
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

3.0 Test result details

3.1 Group A

3.1.1 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.1.2 Low Level Contact Resistance

The mating pair should be meet:

LLCR initial: 20 milliohms maximum(or Baseline)

After test: $\Delta R=30$ milliohms maximum

The following details shall apply:

Test voltage:20mV DC maximum at open circuit

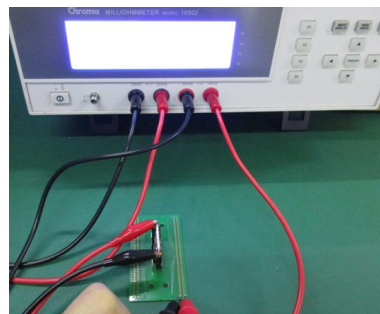
Test current: not to exceed 100mA

Reference:EIA-364-23C

Test result: Baseline of initial (Unit m Ω)

Sample No.	1#	2#	3#	4#	5#
1	22.12	21.00	25.16	23.12	24.01
2	40.23	36.82	40.54	40.82	38.35
3	39.02	36.39	41.12	37.66	31.21
4	21.71	21.84	21.76	21.44	21.74
5	37.79	36.60	36.85	36.70	36.82
6	37.28	36.52	38.19	36.40	37.74
7	20.30	21.02	21.79	21.34	21.95
8	38.54	39.39	37.97	38.27	40.07
9	37.95	35.26	36.75	37.68	36.67
10	20.74	21.08	21.59	23.12	23.50
11	36.66	38.74	36.79	37.60	36.95
12	37.55	35.60	36.75	38.50	37.33
13	20.29	20.29	22.10	21.35	29.46
14	41.13	38.93	37.54	36.29	38.66
15	35.03	35.72	37.25	36.06	35.72
16	20.38	20.79	20.75	20.31	22.00
17	36.35	37.78	36.46	36.39	37.43
18	37.65	36.27	39.30	37.86	38.40
19	20.95	22.21	21.28	21.30	25.47
20	35.45	35.95	37.35	36.21	41.13
21	36.23	37.44	37.77	36.05	37.88
22	21.10	23.29	21.76	22.54	22.21
23	36.21	35.92	37.63	36.09	35.89
24	34.88	35.60	36.45	34.67	37.39
25	20.48	22.79	21.07	20.39	20.87
26	35.74	36.74	37.98	37.33	37.25
27	38.09	36.32	36.18	38.85	36.73
28	22.58	22.19	21.25	21.97	20.55
29	37.78	36.20	36.65	38.49	38.20
30	38.30	37.62	37.05	36.16	39.52
31	21.12	22.73	21.74	21.35	20.87
32	36.51	38.00	36.06	35.58	35.95
33	36.24	37.33	36.20	36.03	36.24
34	22.91	23.23	21.35	21.25	23.83
35	35.37	35.88	38.16	34.99	38.77
36	37.79	36.80	37.81	37.63	37.53
37	20.78	20.57	21.20	20.09	22.54
38	20.04	20.14	20.42	20.29	21.78
39	37.12	35.99	41.33	36.64	40.78
40	34.69	34.44	36.93	34.48	37.31
41	20.54	20.36	20.69	19.72	20.94
42	35.74	36.10	37.80	35.99	38.16
43	34.97	35.00	41.86	34.51	39.77
44	19.92	19.63	21.73	19.58	21.48
45	36.57	36.08	39.30	35.50	41.47

46	34.02	34.75	38.07	34.60	37.33
47	19.52	19.65	20.85	19.80	20.96
48	34.04	35.07	40.03	34.74	38.88
49	34.99	34.49	38.78	34.95	38.57
50	19.58	19.64	22.01	19.46	20.59
51	34.38	34.49	36.88	34.61	35.93
52	34.29	34.84	38.46	34.78	38.42
53	19.64	20.01	21.70	19.68	23.58
54	34.73	35.19	36.74	36.06	36.55
55	35.06	34.99	38.36	34.90	37.80
56	19.61	20.28	21.44	20.39	23.06
57	34.67	35.96	36.74	35.69	37.35
58	35.70	36.27	37.39	35.21	37.74
59	19.89	20.72	21.01	20.68	21.59
60	34.62	36.00	37.71	35.38	36.24
61	34.10	35.81	43.26	35.21	37.74
62	19.34	20.82	20.96	20.15	21.19
63	34.32	35.55	38.69	34.68	35.13
64	34.22	35.38	36.66	34.46	36.41
65	19.37	20.49	22.21	19.78	22.48
66	34.63	36.49	39.44	35.54	38.70
67	35.03	35.55	38.63	36.02	38.26
68	19.41	20.23	23.43	19.93	21.85
69	34.94	36.07	36.91	35.91	37.13
70	35.57	36.34	38.29	36.24	37.77
71	20.27	21.27	21.73	20.36	21.82
72	34.98	35.94	37.57	35.70	36.33
73	35.54	35.76	38.12	36.67	39.11
74	19.67	22.71	21.73	20.81	22.81
Max.	41.13	39.39	43.26	40.82	41.47
Min.	19.34	19.63	20.42	19.46	20.55
Aver.	30.61	30.88	32.26	30.77	32.30



3.1.3 Resistance To Soldering Heat(Infrared Reflow)

No evidence of physical damage

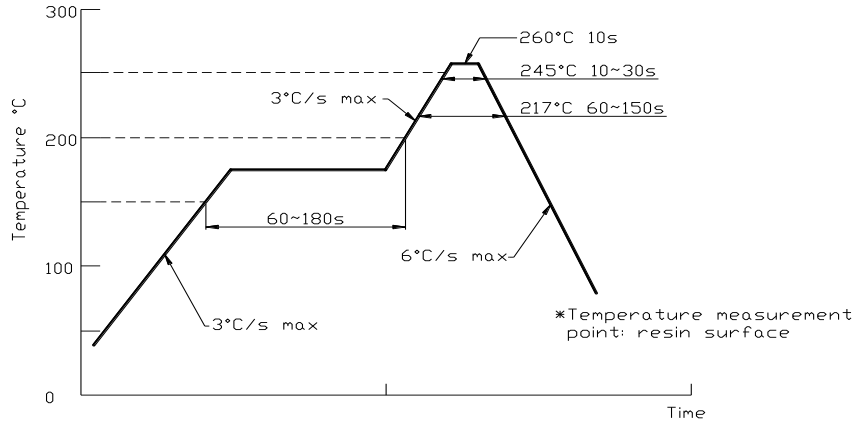
The following details shall apply

Average ramp rate:1~4°C per second

Temperature(board top surface):260°C peak

Duration:30~35 seconds

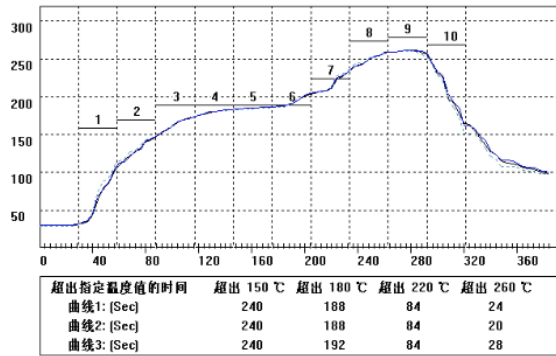
Reference:EIA-364-29



Test result:

Sample No.	1#	2#	3#	4#	5#
Result	Pass	Pass	Pass	Pass	Pass

There was no physical damage found after test.



3.1.4 Reseating

No evidence of physical damage
 The following details shall apply
 Speed: 25.4 mm/minute (Manually)
 Number of cycle: 3 cycles
 Reference: EIA-364-13

Test result: All Samples were passed, No physical damage

3.1.5 Mechanical Shock

No Damage, 10m ohms maximum change from initial (baseline) contact resistance
 The following details shall apply
 Times: 3 shocks in each direction, total 18 shocks
 Direction: 3 mutually perpendicular planes
 Test condition: 50 G's half-sine shock pulses of 11 milliseconds duration
 Reference: EIA-364-27 Test condition H

Test result:

Sample No.	1#	2#	3#	4#	5#
Result	PASS	PASS	PASS	PASS	PASS

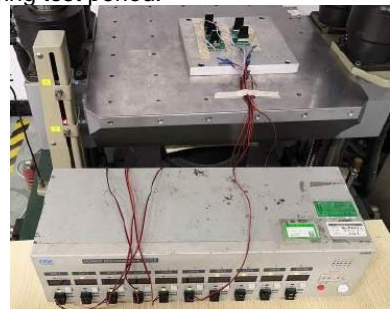
There was no discontinuity of 1 u second or longer duration be detected during test period.



X Axis



Y Axis



Z Axis

3.1.6 Vibration

No Damage, No discontinuity longer than 1u second allowed. 10m ohms maximum change from initial (baseline) contact resistance

The following details shall apply

Duration: 15 minutes per axis

Direction: 3 mutually perpendicular planes

Power spectral density: 3.10G's RMS between 20-500Hz

Reference: EIA-364-28 Test condition VII

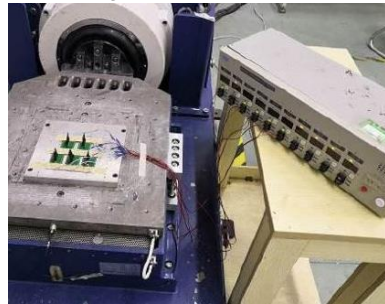
Test result:

Sample No.	1#	2#	3#	4#	5#
Result	PASS	PASS	PASS	PASS	PASS

There was no discontinuity of 1 u second or longer duration be detected during test period.



X Axis



Y Axis



Z Axis

3.1.7 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.1.8 Low Level Contact Resistance

The mating pair should be meet:

LLCR initial: 20 milliohms maximum (or Baseline)

After test: $\Delta R = 30$ milliohms maximum

The following details shall apply:

Test voltage: 20mV DC maximum at open circuit

Test current: not to exceed 100mA

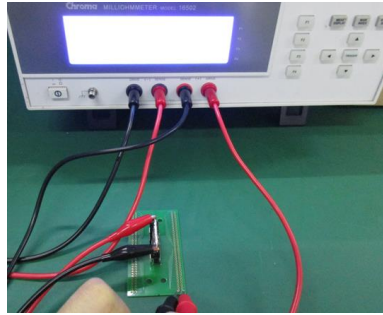
Reference: EIA-364-23C

Test result: (Unit m Ω)

Sample No.	1#	2#	3#	4#	5#	1#	2#	3#	4#	5#
	Baseline					Change VS initial ΔR				
1	21.46	22.31	21.93	22.60	21.70	0.66	1.31	3.23	0.52	2.31
2	37.54	39.46	37.99	41.27	41.51	2.69	2.64	2.55	0.45	3.16
3	36.13	34.79	36.54	38.65	35.20	2.89	1.60	4.58	0.99	3.99
4	21.67	22.59	21.16	23.08	22.56	0.04	0.75	0.60	1.64	0.82
5	37.71	36.32	39.54	37.89	36.59	0.08	0.28	2.69	1.19	0.23
6	35.83	35.98	35.45	35.99	36.68	1.45	0.54	2.74	0.41	1.06
7	20.35	20.47	20.78	22.14	20.33	0.05	0.55	1.01	0.80	1.62
8	36.73	39.56	35.63	39.12	37.41	1.81	0.17	2.34	0.85	2.66
9	36.47	36.78	34.27	38.31	36.12	1.48	1.52	2.48	0.63	0.55
10	26.07	22.04	33.62	25.66	23.11	5.33	0.96	12.03	2.54	0.39
11	35.13	39.10	37.12	36.82	37.69	1.53	0.36	0.33	0.78	0.74
12	36.55	34.16	35.05	39.27	38.11	1.00	1.44	1.70	0.77	0.78
13	20.44	21.60	21.81	24.73	26.24	0.15	1.31	0.29	3.38	3.22
14	35.60	37.37	36.95	38.70	36.11	5.53	1.56	0.59	2.41	2.55
15	35.78	35.90	35.51	35.26	37.74	0.75	0.18	1.74	0.80	2.02
16	21.42	20.77	26.93	24.73	26.36	1.04	0.02	6.18	4.42	4.36
17	36.00	37.90	36.54	37.16	35.58	0.35	0.12	0.08	0.77	1.85
18	36.97	37.32	36.45	37.30	41.79	0.68	1.05	2.85	0.56	3.39
19	20.43	25.33	21.94	25.73	23.98	0.52	3.12	0.66	4.43	1.49
20	36.13	38.50	37.00	37.30	36.03	0.68	2.55	0.35	1.09	5.10
21	36.59	38.57	36.22	38.18	36.91	0.36	1.13	1.55	2.13	0.97
22	19.99	22.20	21.41	23.35	21.98	1.11	1.09	0.35	0.81	0.23
23	36.95	38.91	36.98	37.92	35.59	0.74	2.99	0.65	1.83	0.30
24	35.04	36.19	35.80	35.59	35.25	0.16	0.59	0.65	0.92	2.14

25	19.74	21.91	20.73	21.48	20.18	0.74	0.88	0.34	1.09	0.69
26	37.04	38.81	36.65	37.72	35.91	1.30	2.07	1.33	0.39	1.34
27	37.57	41.32	34.56	39.05	36.64	0.52	5.00	1.62	0.20	0.09
28	20.72	21.52	20.17	21.59	20.33	1.86	0.67	1.08	0.38	0.22
29	36.22	37.50	36.01	40.73	36.66	1.56	1.30	0.64	2.24	1.54
30	34.42	38.74	36.94	38.76	36.39	3.88	1.12	0.11	2.60	3.13
31	19.97	22.99	22.66	23.84	21.10	1.15	0.26	0.92	2.49	0.23
32	36.36	38.97	37.76	38.82	35.59	0.15	0.97	1.70	3.24	0.36
33	38.48	35.89	36.42	37.47	35.10	2.24	1.44	0.22	1.44	1.14
34	20.82	22.52	23.93	21.71	22.51	2.09	0.71	2.58	0.46	1.32
35	37.03	36.24	36.34	37.97	37.55	1.66	0.36	1.82	2.98	1.22
36	47.78	37.49	37.85	38.08	35.26	9.99	0.69	0.04	0.45	2.27
37	20.74	21.58	21.61	21.84	23.53	0.04	1.01	0.41	1.75	0.99
38	20.20	21.00	20.66	29.75	21.06	0.16	0.86	0.24	9.46	0.72
39	34.72	35.46	38.10	35.62	35.26	2.40	0.53	3.23	1.02	5.52
40	34.22	34.66	34.77	34.57	34.76	0.47	0.22	2.16	0.09	2.55
41	19.32	20.63	19.78	19.83	20.04	1.22	0.27	0.91	0.11	0.90
42	34.79	35.50	35.06	35.67	35.47	0.95	0.60	2.74	0.32	2.69
43	37.71	34.89	35.65	34.50	34.77	2.74	0.11	6.21	0.01	5.00
44	19.70	20.68	20.24	19.65	20.24	0.22	1.05	1.49	0.07	1.24
45	34.90	36.04	35.39	35.12	36.96	1.67	0.04	3.91	0.38	4.51
46	33.99	35.19	35.48	34.58	36.20	0.03	0.44	2.59	0.02	1.13
47	19.38	19.70	20.42	19.64	21.59	0.14	0.05	0.43	0.16	0.63
48	34.12	34.90	36.80	35.60	37.30	0.08	0.17	3.23	0.86	1.58
49	32.21	34.36	36.13	34.66	35.46	2.78	0.13	2.65	0.29	3.11
50	19.28	19.80	21.53	20.54	20.72	0.30	0.16	0.48	1.08	0.13
51	34.91	34.59	36.46	34.85	35.53	0.53	0.10	0.42	0.24	0.40
52	34.78	36.65	37.95	34.78	38.86	0.49	1.81	0.51	0.00	0.44
53	19.68	19.99	21.86	20.92	20.91	0.04	0.02	0.16	1.24	2.67
54	34.49	34.78	36.71	36.62	37.99	0.24	0.41	0.03	0.56	1.44
55	34.76	36.00	36.26	35.01	36.84	0.30	1.01	2.10	0.11	0.96
56	20.27	20.77	22.68	20.41	24.46	0.66	0.49	1.24	0.02	1.40
57	34.57	36.14	35.73	36.66	37.27	0.10	0.18	1.01	0.97	0.08
58	36.94	36.68	37.40	35.95	35.05	1.24	0.41	0.01	0.74	2.69
59	20.10	25.40	23.32	20.62	23.88	0.21	4.68	2.31	0.06	2.29
60	34.78	35.66	36.23	35.65	36.55	0.16	0.34	1.48	0.27	0.31
61	34.80	35.79	36.22	35.26	37.62	0.70	0.02	7.04	0.05	0.12
62	20.20	20.36	20.57	20.86	22.64	0.86	0.46	0.39	0.71	1.45
63	34.44	35.19	36.10	35.65	35.05	0.12	0.36	2.59	0.97	0.08
64	34.89	35.63	35.84	35.16	35.54	0.67	0.25	0.82	0.70	0.87
65	19.67	20.71	21.59	20.02	22.37	0.30	0.22	0.62	0.24	0.11
66	34.85	37.47	37.41	36.21	37.12	0.22	0.98	2.03	0.67	1.58
67	35.46	35.07	37.90	36.15	39.81	0.43	0.48	0.73	0.13	1.55
68	20.16	20.17	21.45	20.69	20.67	0.75	0.06	1.98	0.76	1.18
69	34.82	37.43	36.10	36.79	36.65	0.12	1.36	0.81	0.88	0.48
70	35.48	37.87	37.50	35.87	37.40	0.09	1.53	0.79	0.37	0.37
71	20.33	20.99	22.50	20.84	21.85	0.06	0.28	0.77	0.48	0.03
72	36.58	38.38	36.25	36.03	35.05	1.60	2.44	1.32	0.33	1.28
73	35.16	37.44	37.41	36.01	36.12	0.38	1.68	0.71	0.66	2.99
74	20.34	23.75	21.24	21.09	21.69	0.67	1.04	0.49	0.28	1.12
Max.	47.78	41.32	39.54	41.27	41.79	9.99	5.00	12.03	9.46	5.52
Min.	19.28	19.70	19.78	19.64	20.04	0.03	0.02	0.01	0.00	0.03
Aver.	30.50	31.42	31.45	31.67	31.54	1.11	0.94	1.70	1.08	1.57

All samples can meet spec 10 milliohm max change from initial contact resistance.



3.2 Group B

3.2.1 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.2.2 Resistance To Soldering Heat(Infrared Reflow)

No evidence of physical damage

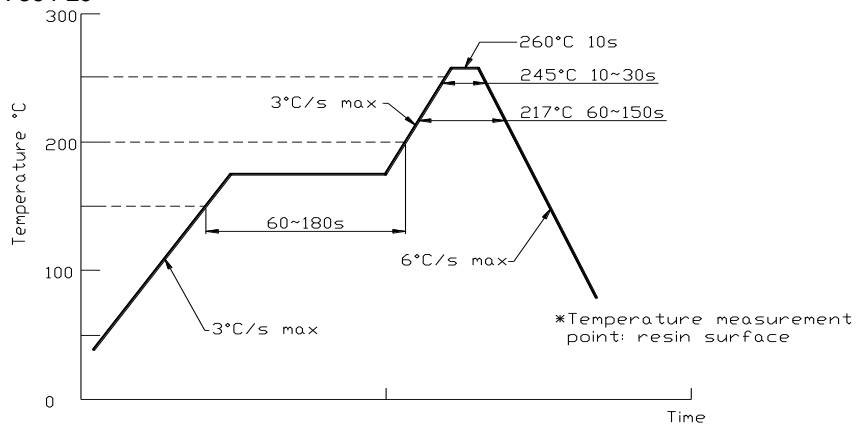
The following details shall apply

Average ramp rate:1~4°C per second

Temperature(board top surface):260°C peak

Duration:30~35 seconds

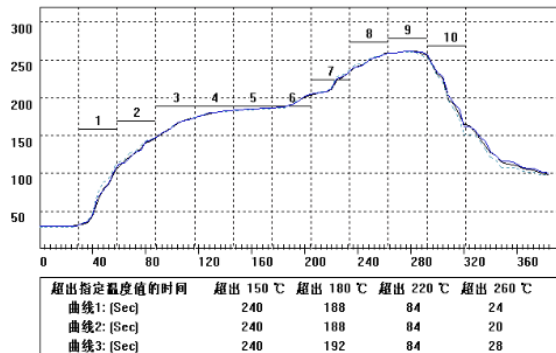
Reference:EIA-364-29



Test result:

Sample No.	1#	2#	3#	4#	5#
Result	Pass	Pass	Pass	Pass	Pass

There was no physical damage found after test.



3.2.3 Reseating

No evidence of physical damage

The following details shall apply

Speed:25.4 mm/minute(Manually)

Number of cycle:3 cycles

Reference:EIA-364-13
 Test result: All Samples were passed, No physical damage

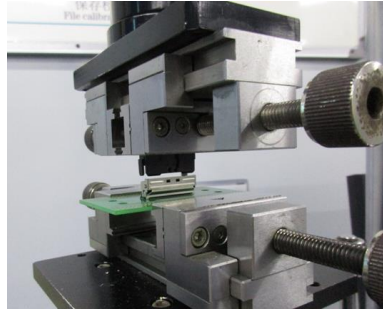
3.2.4 Mating Force

Mating force (module only):0.6 N maximum per pin.
 The following details shall apply
 Speed:25.4 mm/minute
 Reference:EIA-364-13

Test result:(N)

Sample No.	1#	2#	3#	4#	5#
Result	0.26	0.23	0.22	0.25	0.26

All sample were passed



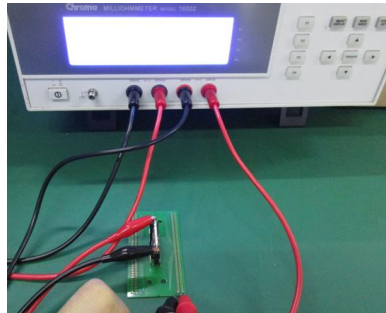
3.2.5 Low Level Contact Resistance

The mating pair should be meet:
 LLCR initial: 20 milliohms maximum(or Baseline)
 After test: $\Delta R=30$ milliohms maximum
 The following details shall apply:
 Test voltage:20mV DC maximum at open circuit
 Test current: not to exceed 100mA
 Reference:EIA-364-23C

Test result: Baseline of initial (Unit m Ω)

Sample No.	1#	2#	3#	4#	5#
1	20.94	24.91	21.29	21.02	20.32
2	38.68	37.38	36.65	36.59	36.32
3	35.49	36.67	36.02	35.81	34.75
4	20.63	21.98	22.49	20.94	20.83
5	36.45	38.82	37.51	37.12	37.05
6	36.20	36.50	37.99	36.04	35.81
7	20.82	21.39	21.65	20.19	21.38
8	37.51	39.55	36.72	37.18	37.73
9	34.85	39.42	36.18	35.19	35.53
10	20.85	23.69	20.90	20.09	20.28
11	36.65	37.26	37.69	35.85	36.02
12	37.93	39.27	37.28	37.55	37.20
13	20.25	21.73	21.87	20.94	21.23
14	37.67	37.39	38.05	35.99	36.29
15	35.14	35.78	35.96	34.71	35.17
16	21.50	20.28	20.91	20.37	20.11
17	36.11	36.50	36.05	38.36	37.30
18	35.44	37.92	36.42	37.10	37.64
19	20.89	21.01	21.64	21.89	21.41
20	36.37	37.21	36.14	37.61	35.40
21	37.09	38.15	37.45	36.67	37.23
22	22.59	20.81	21.98	22.13	21.95
23	35.90	36.35	37.24	36.65	35.78
24	35.86	35.14	36.23	35.14	35.33
25	21.80	21.04	20.91	20.33	20.39
26	38.79	38.13	37.25	37.40	37.98
27	37.48	37.06	34.91	36.45	37.36
28	21.86	24.61	20.43	20.33	21.85
29	37.88	36.57	36.38	37.29	36.26
30	39.07	36.88	35.44	37.06	38.26
31	25.55	22.24	20.86	21.40	21.99

32	36.93	38.43	38.18	36.65	36.29
33	35.52	36.59	36.39	35.08	36.65
34	22.14	21.01	21.57	21.67	21.18
35	36.29	36.78	36.47	35.98	36.84
36	35.74	38.42	36.78	37.12	36.87
37	21.05	21.03	23.44	21.30	21.64
38	20.42	20.15	19.38	21.98	22.13
39	35.73	36.34	35.54	36.97	37.69
40	34.88	34.61	35.05	34.98	35.02
41	20.25	19.45	20.16	20.03	20.24
42	36.37	35.75	35.65	35.60	36.01
43	35.07	34.99	35.00	34.96	35.14
44	19.44	19.78	21.09	19.45	19.57
45	35.40	36.92	36.41	35.49	35.52
46	34.98	35.08	37.55	34.80	35.02
47	19.41	20.10	20.07	19.82	19.89
48	34.35	35.81	35.86	35.58	36.09
49	34.90	35.26	36.49	34.52	34.55
50	19.64	20.14	21.05	20.14	20.16
51	34.34	35.30	35.67	35.26	34.19
52	34.66	34.84	35.92	35.01	35.18
53	19.72	20.07	22.10	20.28	20.40
54	35.44	36.65	36.50	36.05	37.63
55	35.02	35.90	35.86	34.76	35.32
56	20.29	20.67	21.64	20.10	20.50
57	36.45	36.26	35.93	35.41	35.65
58	36.18	35.86	37.51	36.37	36.35
59	20.07	20.49	21.19	20.72	20.89
60	34.98	35.40	36.69	36.50	35.43
61	35.62	36.03	36.26	35.87	35.88
62	20.12	20.02	20.77	19.93	20.26
63	35.06	34.99	35.05	35.40	35.08
64	34.80	35.49	35.87	34.96	35.13
65	19.99	19.87	22.40	20.73	20.42
66	35.37	35.80	36.76	35.70	35.60
67	36.26	35.33	38.39	35.67	35.72
68	20.36	20.11	22.03	20.06	20.02
69	36.07	35.96	35.98	36.49	35.30
70	36.84	36.23	37.57	37.69	36.59
71	21.51	21.36	20.90	21.15	21.13
72	35.70	34.86	37.08	35.57	35.60
73	36.60	35.60	37.18	37.40	36.92
74	20.66	21.38	21.92	22.39	21.47
Max.	39.07	39.55	38.39	38.36	38.26
Min.	19.41	19.45	19.38	19.45	19.57
Aver.	30.74	31.12	31.19	30.72	30.75



3.2.6 Un-mating Force

Un-mating force (module only):0.06 N minimum per pin.

The following details shall apply

Speed:25.4 mm/minute

Reference:EIA-364-13

Test result:(N)

Sample No.	1#	2#	3#	4#	5#
Result	0.11	0.09	0.08	0.09	0.09

All sample were passed



3.2.7 Durability (Preconditioning)

Preconditioning: no evidence of physical damage after 50 cycles

Test result:

Sample No.	1#	2#	3#	4#	5#
Result	PASS	PASS	PASS	PASS	PASS

Test result: All Samples were passed, No physical damage found after durability test.



3.2.8 Durability

No evidence of physical damage.

The following details shall apply:

Number of cycles:250 cycles

Cycle rate:500±50 per hour

Preconditioning: no evidence of physical damage after 50 cycles

Reference:EIA-364-09

Test result:

Sample No.	1#	2#	3#	4#	5#
Result	PASS	PASS	PASS	PASS	PASS

Test result: All Samples were passed, No physical damage found after durability test.



3.2.9 Mating Force

Mating force (module only):0.6 N maximum per pin.

The following details shall apply

Speed:25.4 mm/minute

Reference:EIA-364-13

Test result:(N)

Sample No.	1#	2#	3#	4#	5#
Result	0.21	0.20	0.20	0.20	0.26

All sample were passed



3.2.10 Un-mating Force

Un-mating force (module only): 0.06 N minimum per pin.

The following details shall apply

Speed: 25.4 mm/minute

Reference: EIA-364-13

Test result: (N)

Sample No.	1#	2#	3#	4#	5#
Result	0.15	0.11	0.11	0.11	0.13

All sample were passed



3.2.11 Low Level Contact Resistance

The mating pair should be meet:

LLCR initial: 20 milliohms maximum (or Baseline)

After test: $\Delta R = 30$ milliohms maximum

The following details shall apply:

Test voltage: 20mV DC maximum at open circuit

Test current: not to exceed 100mA

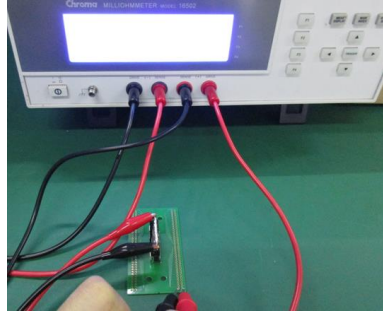
Reference: EIA-364-23C

Test result: (Unit m Ω)

Sample No.	1#	2#	3#	4#	5#	1#	2#	3#	4#	5#
	Baseline					Change VS initial ΔR				
1	20.66	22.83	22.56	20.70	21.75	0.28	2.08	1.27	0.32	1.43
2	38.37	38.54	36.40	35.43	38.13	0.31	1.16	0.25	1.16	1.81
3	35.33	38.29	35.70	36.01	38.06	0.16	1.62	0.32	0.20	3.31
4	21.31	21.09	21.69	21.06	23.30	0.68	0.89	0.80	0.12	2.47
5	36.55	36.62	37.15	37.23	36.81	0.10	2.20	0.36	0.11	0.24
6	36.29	35.60	38.44	36.20	36.23	0.09	0.90	0.45	0.16	0.42
7	20.77	21.72	20.87	20.68	21.03	0.05	0.33	0.78	0.49	0.35
8	38.50	39.31	36.55	38.84	39.06	0.99	0.24	0.17	1.66	1.33
9	34.77	37.52	35.66	35.68	36.42	0.08	1.90	0.52	0.49	0.89
10	20.19	20.71	21.77	20.33	21.41	0.66	2.98	0.87	0.24	1.13
11	36.85	36.81	37.69	36.19	35.84	0.20	0.45	0.00	0.34	0.18
12	36.74	37.93	35.53	36.17	38.33	1.19	1.34	1.75	1.38	1.13
13	20.39	20.71	21.93	20.78	20.57	0.14	1.02	0.06	0.16	0.66
14	38.11	36.31	36.99	36.85	35.54	0.44	1.08	1.06	0.86	0.75
15	34.59	35.25	37.40	35.44	34.76	0.55	0.53	1.44	0.73	0.41
16	22.41	20.34	20.73	21.04	20.43	0.91	0.06	0.18	0.67	0.32
17	36.48	36.85	37.33	37.08	35.25	0.37	0.35	1.28	1.28	2.05
18	36.19	36.51	36.94	36.68	37.64	0.75	1.41	0.52	0.42	0.00
19	20.85	20.89	21.17	20.72	20.89	0.04	0.12	0.47	1.17	0.52
20	35.81	37.29	37.01	35.60	36.58	0.56	0.08	0.87	2.01	1.18
21	36.18	37.86	38.23	35.78	36.78	0.91	0.29	0.78	0.89	0.45
22	20.53	21.05	22.72	21.89	20.03	2.06	0.24	0.74	0.24	1.92

23	36.71	36.11	39.20	35.40	35.68	0.81	0.24	1.96	1.25	0.10
24	35.05	35.08	36.46	34.75	33.98	0.81	0.06	0.23	0.39	1.35
25	22.43	20.76	20.42	20.03	20.10	0.63	0.28	0.49	0.30	0.29
26	38.13	38.91	36.75	38.31	37.53	0.66	0.78	0.50	0.91	0.45
27	37.64	37.25	35.11	37.09	36.37	0.16	0.19	0.20	0.64	0.99
28	20.24	20.70	20.33	20.14	20.68	1.62	3.91	0.10	0.19	1.17
29	36.91	36.70	36.33	37.58	35.95	0.97	0.13	0.05	0.29	0.31
30	36.71	36.79	35.10	35.17	38.61	2.36	0.09	0.34	1.89	0.35
31	21.06	20.33	21.61	22.33	21.04	4.49	1.91	0.75	0.93	0.95
32	35.43	35.88	37.47	35.60	36.53	1.50	2.55	0.71	1.05	0.24
33	35.28	35.75	36.48	36.28	35.10	0.24	0.84	0.09	1.20	1.55
34	21.66	21.71	20.87	21.35	20.59	0.48	0.70	0.70	0.32	0.59
35	37.18	38.32	35.98	37.54	36.60	0.89	1.54	0.49	1.56	0.24
36	34.94	37.48	37.38	35.98	35.46	0.80	0.94	0.60	1.14	1.41
37	21.34	21.92	23.69	21.16	21.45	0.29	0.89	0.25	0.14	0.19
38	20.25	20.21	20.02	22.19	19.84	0.17	0.06	0.64	0.21	2.29
39	35.90	38.87	36.52	37.99	35.34	0.17	2.53	0.98	1.02	2.35
40	35.12	34.69	34.90	34.32	34.41	0.24	0.08	0.15	0.66	0.61
41	20.70	19.48	20.26	20.32	19.87	0.45	0.03	0.10	0.29	0.37
42	35.71	35.58	36.33	32.31	35.75	0.66	0.17	0.68	3.29	0.26
43	34.67	35.28	35.33	34.99	34.64	0.40	0.29	0.33	0.03	0.50
44	19.67	19.99	20.68	19.51	19.53	0.23	0.21	0.41	0.06	0.04
45	36.62	37.33	37.05	34.94	35.36	1.22	0.41	0.64	0.55	0.16
46	35.13	35.32	36.95	34.80	34.55	0.15	0.24	0.60	0.00	0.47
47	19.66	20.40	21.08	19.91	19.65	0.25	0.30	1.01	0.09	0.24
48	36.73	35.25	37.86	35.37	35.31	2.38	0.56	2.00	0.21	0.78
49	35.19	35.69	36.90	34.60	34.43	0.29	0.43	0.41	0.08	0.12
50	19.71	20.48	20.52	20.38	19.92	0.07	0.34	0.53	0.24	0.24
51	34.66	35.53	36.06	35.38	35.04	0.32	0.23	0.39	0.12	0.85
52	34.36	35.42	35.62	35.37	34.89	0.30	0.58	0.30	0.36	0.29
53	20.05	20.53	19.56	20.22	19.93	0.33	0.46	2.54	0.06	0.47
54	36.91	36.13	37.32	35.63	36.62	1.47	0.52	0.82	0.42	1.01
55	36.01	35.53	35.85	35.61	35.14	0.99	0.37	0.01	0.85	0.18
56	20.15	20.92	21.88	20.12	20.36	0.14	0.25	0.24	0.02	0.14
57	36.90	35.72	36.56	35.06	34.52	0.45	0.54	0.63	0.35	1.13
58	36.47	35.81	38.34	36.17	35.29	0.29	0.05	0.83	0.20	1.06
59	20.06	21.44	21.52	20.06	21.19	0.01	0.95	0.33	0.66	0.30
60	36.01	35.48	35.90	34.88	35.02	1.03	0.08	0.79	1.62	0.41
61	35.34	35.46	36.27	35.15	35.64	0.28	0.57	0.01	0.72	0.24
62	20.07	20.21	20.43	20.23	19.85	0.05	0.19	0.34	0.30	0.41
63	35.50	35.07	35.40	35.36	34.89	0.44	0.08	0.35	0.04	0.19
64	35.13	35.47	36.18	34.73	34.41	0.33	0.02	0.31	0.23	0.72
65	20.02	20.15	20.52	20.06	19.70	0.03	0.28	1.88	0.67	0.72
66	35.74	35.80	36.06	35.48	35.21	0.37	0.00	0.70	0.22	0.39
67	36.25	35.69	35.62	35.05	35.51	0.01	0.36	2.77	0.62	0.21
68	20.01	20.49	19.56	19.91	19.84	0.35	0.38	2.47	0.15	0.18
69	35.97	35.89	37.32	35.41	34.82	0.10	0.07	1.34	1.08	0.48
70	37.98	35.73	35.85	36.26	36.85	1.14	0.50	1.72	1.43	0.26
71	20.75	21.12	21.88	21.03	19.96	0.76	0.24	0.98	0.12	1.17
72	35.62	35.03	36.56	36.25	36.43	0.08	0.17	0.52	0.68	0.83
73	38.01	35.48	38.34	36.33	35.72	1.41	0.12	1.16	1.07	1.20
74	20.49	20.83	21.52	21.43	21.05	0.17	0.55	0.40	0.96	0.42
Max.	38.50	39.31	39.20	38.84	39.06	4.49	3.91	2.77	3.29	3.31
Min.	19.66	19.48	19.56	19.51	19.53	0.01	0.00	0.00	0.00	0.00
Aver.	30.70	30.91	31.19	30.51	30.50	0.62	0.67	0.71	0.63	0.74

All samples can meet spec 10 milliohm max change from initial contact resistance.



3.2.12 Thermal Shock

No Damage, 10m ohms maximum change from initial (baseline) contact resistance
 The following details shall apply
 Test temperature: -65 to 105°C
 Number of cycle: 10 cycles
 Reference: EIA-364-32 method A test condition 1

Test result:

Sample No.	1#	2#	3#	4#	5#
Result(Mated)	Pass	Pass	Pass	Pass	Pass

Test result: All Samples were passed, No physical damage found after thermal shock test.



3.2.13 Reseating

No evidence of physical damage
 The following details shall apply
 Speed: 25.4 mm/minute (Manually)
 Number of cycle: 3 cycles
 Reference: EIA-364-13

Test result: All Samples were passed, No physical damage

3.2.14 Temperature/Humidity Cycling

No Damage, 10m ohms maximum change from initial (baseline) contact resistance
 The following details shall apply
 Test environment: 25°C/80%RH and 65°C/50%RH, Ramp times should be 0.5 hour and dwell times should be 1.0 hour
 Number of cycle: 24 cycles
 Reference: EIA-364-31 method III

Test result:

Sample No.	1#	2#	3#	4#	5#
Result(Mated)	Pass	Pass	Pass	Pass	Pass

Test result: All Samples were passed, No physical damage found after humidity test.



3.2.15 Low Level Contact Resistance

The mating pair should be meet:
 LLCR initial: 20 milliohms maximum (or Baseline)

After test: $\Delta R=30$ milliohms maximum

The following details shall apply:

Test voltage:20mV DC maximum at open circuit

Test current: not to exceed 100mA

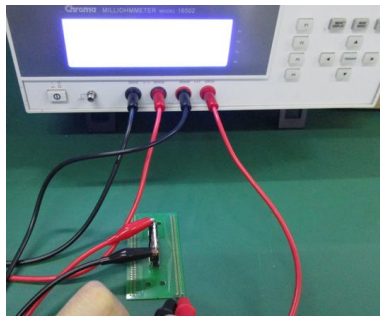
Reference:EIA-364-23C

Test result: (Unit m Ω)

Sample No.	1#	2#	3#	4#	5#	1#	2#	3#	4#	5#
	Baseline					Change VS initial ΔR				
1	21.95	31.91	22.99	24.38	24.07	1.01	7.00	1.70	3.36	3.75
2	37.61	39.48	45.84	37.82	37.56	1.07	2.10	9.19	1.23	1.24
3	37.33	36.83	36.91	36.96	35.64	1.84	0.16	0.89	1.15	0.89
4	21.14	21.33	22.32	23.68	21.37	0.51	0.65	0.17	2.74	0.54
5	37.64	37.94	36.43	39.11	36.54	1.19	0.88	1.08	1.99	0.51
6	38.28	36.71	36.85	39.38	36.63	2.08	0.21	1.14	3.34	0.82
7	22.22	22.38	24.33	23.38	20.87	1.40	0.99	2.68	3.19	0.51
8	38.19	37.49	38.38	39.39	38.55	0.68	2.06	1.66	2.21	0.82
9	36.37	35.70	37.05	35.44	37.31	1.52	3.72	0.87	0.25	1.78
10	20.81	20.20	21.75	19.94	20.07	0.04	3.49	0.85	0.15	0.21
11	39.03	38.97	38.31	37.22	37.65	2.38	1.71	0.62	1.37	1.63
12	39.29	39.12	37.00	38.52	38.29	1.36	0.15	0.28	0.97	1.09
13	21.91	20.72	23.61	22.55	20.63	1.66	1.01	1.74	1.61	0.60
14	39.06	36.66	36.95	39.98	37.34	1.39	0.73	1.10	3.99	1.05
15	37.80	36.08	36.87	35.46	37.42	2.66	0.30	0.91	0.75	2.25
16	22.34	20.83	20.36	22.71	21.08	0.84	0.55	0.55	2.34	0.97
17	39.25	37.53	37.48	37.23	36.82	3.14	1.03	1.43	1.13	0.48
18	38.67	37.77	37.59	37.42	37.33	3.23	0.15	1.17	0.32	0.31
19	22.74	21.20	19.68	22.39	23.44	1.85	0.19	1.96	0.50	2.03
20	38.26	36.21	36.36	37.47	36.14	1.89	1.00	0.22	0.14	0.74
21	37.41	36.57	36.39	38.99	38.61	0.32	1.58	1.06	2.32	1.38
22	23.01	20.62	21.26	21.68	22.62	0.42	0.19	0.72	0.45	0.67
23	39.29	38.59	36.09	36.43	37.56	3.39	2.24	1.15	0.22	1.78
24	37.85	35.72	35.55	36.35	36.35	1.99	0.58	0.68	1.21	1.02
25	21.68	20.26	21.31	19.94	21.09	0.12	0.78	0.40	0.39	0.70
26	38.12	38.41	38.73	38.30	38.48	0.67	0.28	1.48	0.90	0.50
27	36.66	37.34	38.79	38.17	39.60	0.82	0.28	3.88	1.72	2.24
28	21.37	20.37	22.15	21.54	21.02	0.49	4.24	1.72	1.21	0.83
29	38.77	37.63	39.50	36.61	39.00	0.89	1.06	3.12	0.68	2.74
30	37.50	36.00	36.58	38.01	39.34	1.57	0.88	1.14	0.95	1.08
31	21.44	20.67	24.22	23.45	21.95	4.11	1.57	3.36	2.05	0.04
32	40.41	39.23	37.09	37.19	37.27	3.48	0.80	1.09	0.54	0.98
33	40.65	36.07	37.05	36.16	37.35	5.13	0.52	0.66	1.08	0.70
34	22.17	22.26	23.65	22.68	21.78	0.03	1.25	2.08	1.01	0.60
35	36.98	36.75	38.24	39.59	38.95	0.69	0.03	1.77	3.61	2.11
36	40.81	38.88	38.46	39.15	38.14	5.07	0.46	1.68	2.03	1.27
37	29.32	21.58	22.97	27.57	24.19	8.27	0.55	0.47	6.27	2.55
38	20.03	19.35	20.77	19.66	21.15	0.39	0.80	1.39	2.32	0.98
39	36.89	36.70	39.59	36.73	37.48	1.16	0.36	4.05	0.24	0.21
40	34.91	34.73	35.38	34.40	34.64	0.03	0.12	0.33	0.58	0.38
41	20.86	19.93	20.56	19.47	20.90	0.61	0.48	0.40	0.56	0.66
42	36.86	36.97	35.76	36.37	37.48	0.49	1.22	0.11	0.77	1.47
43	36.42	34.62	35.30	34.53	35.18	1.35	0.37	0.30	0.43	0.04
44	20.38	20.03	19.69	19.48	20.09	0.94	0.25	1.40	0.03	0.52
45	37.42	35.54	38.47	35.22	36.22	2.02	1.38	2.06	0.27	0.70
46	38.25	36.04	35.40	36.26	34.93	3.27	0.96	2.15	1.46	0.09
47	21.09	21.08	20.14	19.67	20.73	1.68	0.98	0.07	0.15	0.84
48	36.65	37.97	37.23	35.10	35.52	2.30	2.16	1.37	0.48	0.57
49	37.40	34.97	35.67	34.38	36.07	2.50	0.29	0.82	0.14	1.52
50	20.92	20.46	20.43	19.58	20.21	1.28	0.32	0.62	0.56	0.05
51	35.99	35.17	35.65	34.41	36.11	1.65	0.13	0.02	0.85	1.92
52	35.99	35.58	37.07	34.91	36.21	1.33	0.74	1.15	0.10	1.03
53	21.92	20.33	20.67	20.32	20.98	2.20	0.26	1.43	0.04	0.58
54	37.26	36.70	41.28	35.45	38.11	1.82	0.05	4.78	0.60	0.48
55	36.96	35.12	36.47	34.91	36.13	1.94	0.78	0.61	0.15	0.81
56	23.36	20.93	22.11	23.10	20.85	3.07	0.26	0.47	3.00	0.35

57	36.15	35.35	37.47	35.47	36.48	0.30	0.91	1.54	0.06	0.83
58	37.19	36.61	38.94	39.91	37.02	1.01	0.75	1.43	3.54	0.67
59	23.70	20.78	20.95	21.10	20.49	3.63	0.29	0.24	0.38	0.40
60	37.79	35.91	36.86	35.61	36.11	2.81	0.51	0.17	0.89	0.68
61	36.91	35.55	36.89	37.46	35.34	1.29	0.48	0.63	1.59	0.54
62	22.00	19.89	20.49	20.90	20.38	1.88	0.13	0.28	0.97	0.12
63	36.37	34.99	36.37	37.58	35.54	1.31	0.00	1.32	2.18	0.46
64	36.71	34.81	35.18	38.65	35.28	1.91	0.68	0.69	3.69	0.15
65	21.40	21.13	20.77	22.70	19.70	1.41	1.26	1.63	1.97	0.72
66	36.94	35.88	37.00	39.37	38.01	1.57	0.08	0.24	3.67	2.41
67	38.33	37.22	37.04	38.87	36.11	2.07	1.89	1.35	3.20	0.39
68	21.18	21.47	20.73	22.46	19.71	0.82	1.36	1.30	2.40	0.31
69	37.12	35.42	37.47	36.99	35.43	1.05	0.54	1.49	0.50	0.13
70	38.56	37.65	39.03	38.57	37.32	1.72	1.42	1.46	0.88	0.73
71	20.66	21.67	20.94	22.89	21.43	0.85	0.31	0.04	1.74	0.30
72	36.87	34.77	37.51	36.58	35.90	1.17	0.09	0.43	1.01	0.30
73	37.02	35.66	38.15	38.36	37.97	0.42	0.06	0.97	0.96	1.05
74	22.17	21.09	22.34	22.89	22.50	1.51	0.29	0.42	0.50	1.03
Max.	40.81	39.48	45.84	39.98	39.60	8.27	7.00	9.19	6.27	3.75
Min.	20.03	19.35	19.68	19.47	19.70	0.03	0.00	0.02	0.03	0.04
Aver.	32.16	31.22	31.85	31.79	31.46	1.70	0.92	1.30	1.38	0.92

All samples can meet spec 10 milliohm max change from initial contact resistance.



3.3 Group C

3.3.1 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.3.2 Dielectric Withstanding Voltage

There shall be no evidence of arc-over, insulation breakdown, or excessive leakage current (0.5mA max) when the mated connectors are tested in accordance with EIA 364-20.

The following details shall apply:

Test Voltage: 300V DC

Test Duration: 60seconds ±5 seconds

Points of measurement : Between adjacent contacts

Reference:EIA-364-20

Test result:

Sample No.	1#	2#	3#	4#	5#
Result(Mated)	Pass	Pass	Pass	Pass	Pass

All sample were passed, No flash and physical damage were observed.



3.3.3 Insulation Resistance

The insulation resistance of mated connectors shall not be less than 1000M ohm.

The following details shall apply:

Test Voltage: 500V DC

Test Duration: 60seconds ±5 seconds

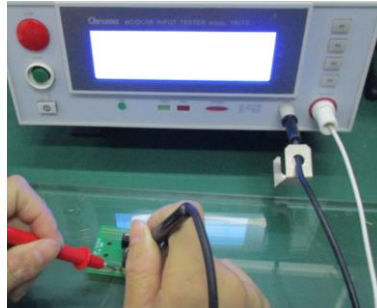
Points of measurement : Between adjacent contacts

Reference:EIA-364-21

Test result: (Unit: GΩ)

Sample No.	1#	2#	3#	4#	5#
Result(Mated)	>50GΩ	>50GΩ	>50GΩ	>50GΩ	>50GΩ

All sample can meet spec 1000MΩ Min.



3.3.4 Resistance To Soldering Heat(Infrared Reflow)

No evidence of physical damage

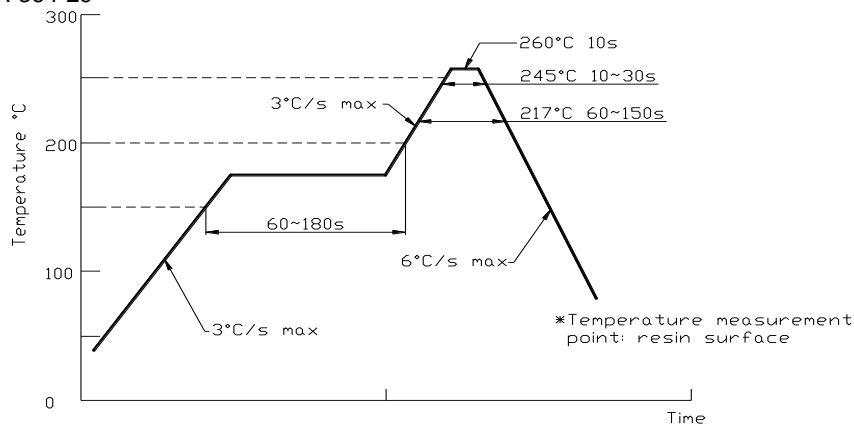
The following details shall apply

Average ramp rate:1~4°C per second

Temperature(board top surface):260°C peak

Duration:30~35 seconds

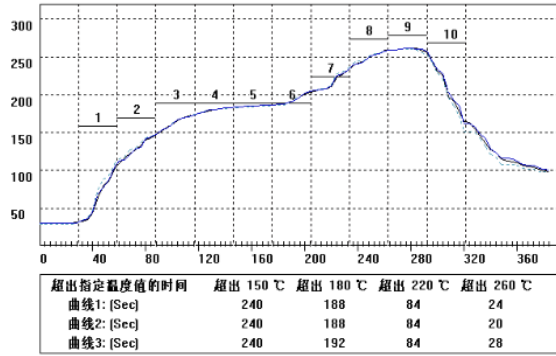
Reference:EIA-364-29



Test result:

Sample No.	1#	2#	3#	4#	5#
Result	Pass	Pass	Pass	Pass	Pass

There was no physical damage found after test.



3.3.5 Thermal Shock

No Damage, 10m ohms maximum change from initial (baseline) contact resistance
 The following details shall apply
 Test temperature: -65 to 105°C
 Number of cycle: 10 cycles
 Reference: EIA-364-32 method A test condition 1

Test result:

Sample No.	1#	2#	3#	4#	5#
Result(Mated)	Pass	Pass	Pass	Pass	Pass

Test result: All Samples were passed, No physical damage found after thermal shock test.



3.2.6 Temperature/Humidity Cycling

No Damage, 10m ohms maximum change from initial (baseline) contact resistance
 The following details shall apply
 Test environment: 25°C/80%RH and 65°C/50%RH, Ramp times should be 0.5 hour and dwell times should be 1.0 hour
 Number of cycle: 24 cycles
 Reference: EIA-364-31 method III

Test result:

Sample No.	1#	2#	3#	4#	5#
Result(Mated)	Pass	Pass	Pass	Pass	Pass

Test result: All Samples were passed, No physical damage found after humidity test.



3.3.7 Visual Inspection

Reference: EIA-364-18
 Procedure: Visual, dimensional and functional per applicable quality inspection plan.
 Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.3.8 Insulation Resistance

The insulation resistance of mated connectors shall not be less than 1000M ohm.
 The following details shall apply:

Test Voltage: 500V DC
 Test Duration: 60seconds ±5 seconds
 Points of measurement : Between adjacent contacts
 Reference:EIA-364-21
 Test result: (Unit: GΩ)

Sample No.	1#	2#	3#	4#	5#
Result(Mated)	>50GΩ	>50GΩ	>50GΩ	>50GΩ	>50GΩ

All sample can meet spec 1000MΩ Min.



3.3.9 Dielectric Withstanding Voltage

There shall be no evidence of arc-over, insulation breakdown, or excessive leakage current (0.5mA max) when the mated connectors are tested in accordance with EIA 364-20.

The following details shall apply:

Test Voltage: 300V DC
 Test Duration: 60seconds ±5 seconds
 Points of measurement : Between adjacent contacts
 Reference:EIA-364-20

Test result:

Sample No.	1#	2#	3#	4#	5#
Result(Mated)	Pass	Pass	Pass	Pass	Pass

All sample were passed, No flash and physical damage were observed.



3.4 Group D

3.4.1 Visual Inspection

Reference: EIA-364-18
 Procedure: Visual, dimensional and functional per applicable quality inspection plan.
 Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.4.2 Low Level Contact Resistance

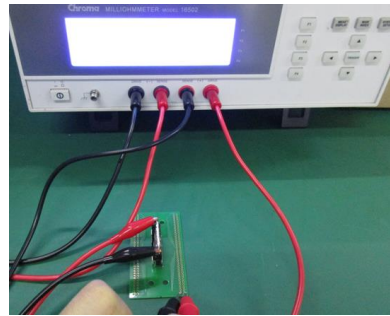
The mating pair should be meet:
 LLCR initial: 20 milliohms maximum(or Baseline)
 After test: ΔR=30 milliohms maximum
 The following details shall apply:
 Test voltage:20mV DC maximum at open circuit
 Test current: not to exceed 100mA
 Reference:EIA-364-23C

Test result: Baseline of initial (Unit mΩ)

Sample No.	1#	2#	3#	4#	5#
1	21.95	31.19	22.99	24.38	24.07
2	37.61	39.48	45.84	37.82	54.38
3	37.33	36.83	36.91	36.96	35.64

4	21.14	21.33	22.32	23.68	21.37
5	37.64	37.94	36.43	39.11	36.54
6	32.28	36.71	36.85	39.38	36.63
7	22.22	22.38	24.33	23.38	20.87
8	38.19	37.49	38.38	39.39	38.55
9	36.67	35.70	37.05	35.44	37.31
10	20.81	20.20	21.75	19.94	20.07
11	39.03	38.97	38.31	37.22	37.65
12	39.29	39.12	37.00	35.82	38.29
13	21.91	20.72	23.61	22.55	20.63
14	39.06	36.66	36.95	37.98	37.34
15	37.80	36.08	36.87	35.46	37.42
16	22.34	20.82	20.36	22.71	21.08
17	39.25	37.53	37.48	37.23	36.82
18	38.67	37.77	37.59	37.42	37.33
19	22.74	21.20	21.68	22.39	23.44
20	38.26	36.21	36.36	37.47	36.14
21	38.41	36.57	36.39	38.99	38.61
22	23.01	20.62	21.26	21.68	22.62
23	39.29	38.59	36.09	36.43	37.56
24	37.85	35.72	35.55	36.35	36.35
25	21.68	20.26	21.31	19.94	21.09
26	38.12	38.41	38.73	38.20	38.48
27	36.66	37.34	38.79	38.17	39.60
28	21.37	20.37	22.15	21.54	21.02
29	38.77	37.63	39.50	36.61	39.00
30	37.50	36.00	36.58	38.01	39.34
31	21.44	20.67	24.22	23.45	21.95
32	40.41	39.23	37.09	37.19	37.27
33	40.65	36.07	37.05	36.16	37.35
34	22.17	22.26	23.65	22.68	21.78
35	36.98	36.75	38.24	39.59	38.95
36	40.81	38.88	38.46	39.15	38.14
37	29.32	21.58	22.97	27.57	24.19
38	20.03	19.35	20.77	19.66	21.15
39	36.89	36.70	39.59	36.73	37.48
40	34.91	34.73	35.38	34.40	34.64
41	20.86	19.93	20.56	19.47	20.90
42	36.86	36.97	35.76	36.37	37.48
43	36.42	34.62	35.30	36.65	35.18
44	20.38	20.03	19.69	19.48	20.09
45	37.42	35.54	38.47	35.22	36.22
46	38.25	36.04	35.40	36.26	34.93
47	21.09	21.08	20.14	19.67	20.73
48	36.65	37.97	37.23	35.10	35.52
49	37.40	34.94	35.67	34.38	36.07
50	20.92	20.46	20.04	19.58	20.21
51	35.99	35.17	35.65	34.41	36.11
52	35.99	35.58	37.07	34.91	36.21
53	21.92	20.33	20.67	20.32	20.98
54	37.26	36.70	41.28	35.45	38.11
55	36.96	35.12	36.47	34.91	36.13
56	23.36	20.93	22.11	23.10	20.85
57	36.15	35.35	37.47	35.47	36.48
58	37.19	36.61	38.94	39.91	37.03
59	23.70	20.78	20.95	21.10	20.49
60	37.79	35.91	36.86	35.61	36.11
61	36.91	35.55	36.89	36.46	35.34
62	22.00	19.89	20.49	20.91	20.38
63	36.37	34.99	36.37	37.58	35.54
64	36.71	34.81	35.18	38.65	35.28
65	21.04	21.13	20.77	22.70	19.70
66	36.94	35.88	37.00	39.37	38.01
67	38.33	37.22	37.04	38.87	36.11

68	21.18	21.47	20.74	22.46	19.71
69	37.12	35.42	37.47	36.99	35.43
70	38.56	37.65	39.03	38.57	37.32
71	21.66	21.67	20.90	22.89	21.43
72	36.87	34.77	37.51	36.58	35.90
73	37.02	35.66	37.15	38.26	37.97
74	22.17	21.09	22.34	22.89	22.50
Max.	40.81	39.48	45.84	39.91	54.38
Min.	20.03	19.35	19.69	19.47	19.70
Aver.	32.11	31.21	31.86	31.74	31.68



3.4.3 Reseating

No evidence of physical damage
 The following details shall apply
 Speed:25.4 mm/minute(Manually)
 Number of cycle:3 cycles
 Reference:EIA-364-13

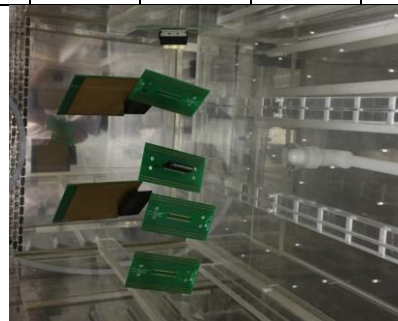
Test result: All Samples were passed, No physical damage

3.4.4 Mixed Flowing Gas

No evidence of physical damage
 The following details shall apply
 Test environment:30 ± 1 °C ,70 ± 2%RH
 Gas concentration: Cl2:10±3 ppb,NO2:200±50 ppb,H2S:10±5 ppb,SO2:100±20 ppb
 Duration:7 days
 Reference:EIA-364-65 class IIA

Test result:

Sample No.	1#	2#	3#	4#	5#
Result	PASS	PASS	PASS	PASS	PASS



3.4.5 Visual Inspection

Reference: EIA-364-18
 Procedure: Visual, dimensional and functional per applicable quality inspection plan.
 Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.4.6 Low Level Contact Resistance

The mating pair should be meet:
 LLCR initial: 20 milliohms maximum(or Baseline)
 After test: Δ R=30 milliohms maximum
 The following details shall apply:
 Test voltage:20mV DC maximum at open circuit

Test current: not to exceed 100mA

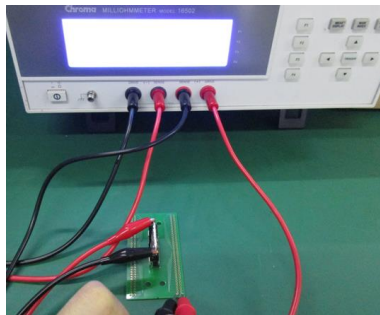
Reference: EIA-364-23C

Test result: (Unit mΩ)

Sample No.	1#	2#	3#	4#	5#	1#	2#	3#	4#	5#
	Baseline					Change VS initial ΔR				
1	22.44	22.50	22.10	20.84	21.78	0.49	8.69	0.89	3.54	2.29
2	41.09	43.08	37.87	36.29	53.16	3.48	3.60	7.97	1.53	1.22
3	39.65	35.76	36.93	35.95	37.86	2.32	1.07	0.02	1.01	2.22
4	22.18	21.92	21.34	20.50	21.84	1.04	0.59	0.98	3.18	0.47
5	37.93	35.83	38.52	37.86	35.43	0.29	2.11	2.09	1.25	1.11
6	39.21	38.24	36.44	37.62	36.40	6.93	1.53	0.41	1.76	0.23
7	22.35	21.53	22.40	21.71	21.88	0.13	0.85	1.93	1.67	1.01
8	37.15	41.73	37.93	37.99	39.52	1.04	4.24	0.45	1.40	0.97
9	36.28	35.41	37.54	34.91	37.45	0.39	0.29	0.49	0.53	0.14
10	20.28	21.04	23.20	20.37	20.60	0.53	0.84	1.45	0.43	0.53
11	41.21	36.71	36.57	37.56	40.08	2.18	2.26	1.74	0.34	2.43
12	38.73	38.02	36.80	35.15	37.56	0.56	1.10	0.20	0.67	0.73
13	21.72	20.59	22.52	20.35	20.83	0.19	0.13	1.09	2.20	0.20
14	38.71	37.16	36.54	36.67	36.45	0.35	0.50	0.41	1.31	0.89
15	35.71	37.14	35.72	35.64	36.96	2.09	1.06	1.15	0.18	0.46
16	21.31	21.57	19.92	20.63	20.87	1.03	0.75	0.44	2.08	0.21
17	39.65	35.71	36.25	36.58	34.05	0.40	1.82	1.23	0.65	2.77
18	38.28	36.80	36.60	36.58	37.23	0.39	0.97	0.99	0.84	0.10
19	22.28	21.34	21.27	20.97	23.40	0.46	0.14	0.41	1.42	0.04
20	36.52	35.38	36.88	37.23	36.60	1.74	0.83	0.52	0.24	0.46
21	37.65	37.77	36.29	36.73	38.40	0.76	1.20	0.10	2.26	0.21
22	21.57	22.15	21.48	21.74	22.12	1.44	1.53	0.22	0.06	0.50
23	38.33	37.01	35.21	37.93	39.20	0.96	1.58	0.88	1.50	1.64
24	36.98	35.63	34.80	35.79	36.53	0.87	0.09	0.75	0.56	0.18
25	20.75	20.57	20.53	20.40	22.53	0.93	0.31	0.78	0.46	1.44
26	37.55	40.22	37.31	36.12	38.84	0.57	1.81	1.42	2.08	0.36
27	35.92	40.54	37.18	36.73	40.75	0.74	3.20	1.61	1.44	1.15
28	21.33	20.65	20.94	20.43	21.85	0.04	0.28	1.21	1.11	0.83
29	40.73	37.80	38.13	36.63	40.20	1.96	0.17	1.37	0.02	1.20
30	38.09	36.18	36.55	35.24	39.01	0.59	0.18	0.03	2.77	0.33
31	20.68	20.56	31.34	20.45	23.92	0.76	0.11	7.12	3.00	1.97
32	40.31	38.04	37.02	37.45	36.60	0.10	1.19	0.07	0.26	0.67
33	40.22	36.86	36.10	35.48	40.38	0.43	0.79	0.95	0.68	3.03
34	21.68	22.95	22.54	21.12	22.51	0.49	0.69	1.11	1.56	0.73
35	35.62	35.72	35.35	37.52	39.79	1.36	1.03	2.89	2.07	0.84
36	40.01	35.62	36.01	36.33	38.05	0.80	3.26	2.45	2.82	0.09
37	26.98	21.78	22.12	20.89	23.48	2.34	0.20	0.85	6.68	0.71
38	19.58	19.61	20.29	20.21	21.40	0.45	0.26	0.48	0.55	0.25
39	35.85	35.16	35.63	37.06	37.68	1.04	1.54	3.96	0.33	0.20
40	35.35	34.64	34.52	34.50	34.59	0.44	0.09	0.86	0.10	0.05
41	20.60	21.51	20.29	22.14	21.51	0.26	1.58	0.27	2.67	0.61
42	36.98	37.07	35.39	37.22	38.13	0.12	0.10	0.37	0.85	0.65
43	35.17	35.68	35.09	36.85	35.56	1.25	1.06	0.21	0.20	0.38
44	20.26	20.58	19.35	20.99	20.57	0.12	0.55	0.34	1.51	0.48
45	37.18	37.04	35.69	39.16	38.46	0.24	1.50	2.78	3.94	2.24
46	37.40	37.70	35.23	38.20	34.71	0.85	1.66	0.17	1.94	0.22
47	20.74	20.98	19.86	20.82	20.55	0.35	0.10	0.28	1.15	0.18
48	35.41	38.43	34.84	36.72	36.10	1.24	0.46	2.39	1.62	0.58
49	36.76	35.33	34.74	37.33	35.88	0.64	0.39	0.93	2.95	0.19
50	20.56	20.12	20.30	20.45	19.89	0.36	0.34	0.26	0.87	0.32
51	36.36	34.62	34.37	35.83	35.59	0.37	0.55	1.28	1.42	0.52
52	35.97	35.22	35.63	35.96	35.33	0.02	0.36	1.44	1.05	0.88
53	21.86	21.73	20.69	21.25	20.64	0.06	1.40	0.02	0.93	0.34
54	36.94	35.84	35.63	37.80	37.34	0.32	0.86	5.65	2.35	0.77
55	36.62	36.02	36.94	35.64	35.82	0.34	0.90	0.47	0.73	0.31
56	24.34	22.83	22.20	22.41	20.60	0.98	1.90	0.09	0.69	0.25
57	36.59	35.37	36.23	36.32	36.78	0.44	0.02	1.24	0.85	0.30
58	37.82	36.81	37.11	38.99	37.69	0.63	0.20	1.83	0.92	0.66
59	25.84	22.47	20.62	21.53	20.38	2.14	1.69	0.33	0.43	0.11

60	38.21	35.84	37.83	36.12	35.34	0.42	0.07	0.97	0.51	0.77
61	37.15	36.33	38.10	36.27	34.82	0.24	0.78	1.21	0.19	0.52
62	20.88	20.90	20.26	20.99	19.84	1.12	1.01	0.23	0.08	0.54
63	36.77	34.97	36.07	36.87	35.02	0.40	0.02	0.30	0.71	0.52
64	37.74	35.51	36.00	38.15	34.84	1.03	0.70	0.82	0.50	0.44
65	21.06	20.37	20.97	20.80	20.03	0.02	0.76	0.20	1.90	0.33
66	37.26	35.79	36.15	36.81	35.66	0.32	0.09	0.85	2.56	2.35
67	37.75	37.77	37.75	37.72	35.89	0.58	0.55	0.71	1.15	0.22
68	21.31	20.84	20.78	21.89	19.63	0.13	0.63	0.04	0.57	0.08
69	37.17	36.56	36.20	36.65	35.57	0.05	1.14	1.27	0.34	0.14
70	38.33	37.32	35.78	36.50	37.97	0.23	0.33	3.25	2.07	0.65
71	22.40	21.65	21.25	21.70	21.47	0.74	0.02	0.35	1.19	0.04
72	37.62	34.99	38.34	35.72	36.80	0.75	0.22	0.83	0.86	0.90
73	36.92	35.64	36.95	38.70	36.93	0.10	0.02	0.20	0.44	1.04
74	22.46	20.82	23.10	21.53	19.96	0.29	0.27	0.76	1.36	2.54
Max.	41.21	43.08	38.52	39.16	53.16	6.93	8.69	7.97	6.68	3.03
Min.	19.58	19.61	19.35	20.21	19.63	0.02	0.02	0.02	0.02	0.04
Aver.	32.09	31.32	31.19	31.25	31.74	0.81	1.02	1.17	1.32	0.76

All samples can meet spec 10 milliohm max change from initial contact resistance.



3.5 Group E

3.5.1 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.5.2 Resistance To Soldering Heat(Infrared Reflow)

No evidence of physical damage

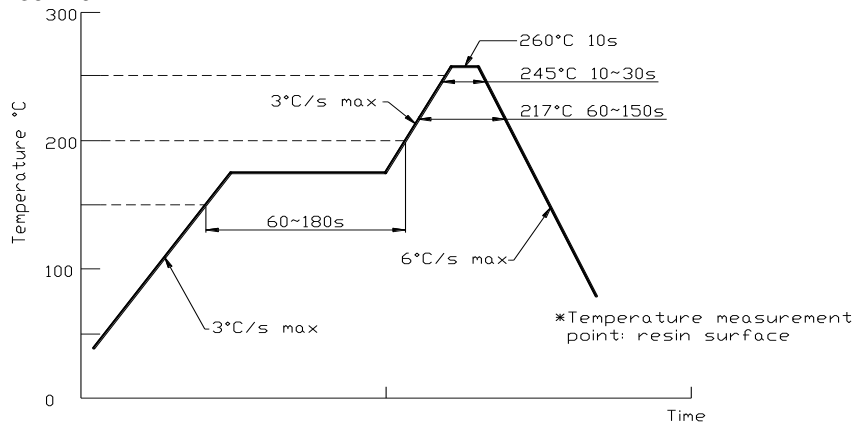
The following details shall apply

Average ramp rate:1~4°C per second

Temperature(board top surface):260°C peak

Duration:30~35 seconds

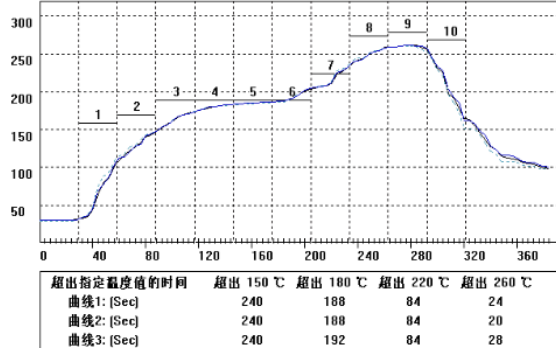
Reference:EIA-364-29



Test result:

Sample No.	1#	2#	3#	4#	5#
Result	Pass	Pass	Pass	Pass	Pass

There was no physical damage found after test.



3.5.3 Reseating

No evidence of physical damage
 The following details shall apply
 Speed:25.4 mm/minute(Manually)
 Number of cycle:3 cycles
 Reference:EIA-364-13

Test result: All Samples were passed, No physical damage

3.5.4 Mating Force

Mating force(module only):0.6 N maximum per pin.
 Un-mating force(module only):0.06 N minimum per pin.
 The following details shall apply
 Speed:25.4 mm/minute
 Reference:EIA-364-13

Test result: (N)

Sample No.	1#	2#	3#	4#	5#
Mating	0.24	0.29	0.19	0.22	0.22

All sample were passed



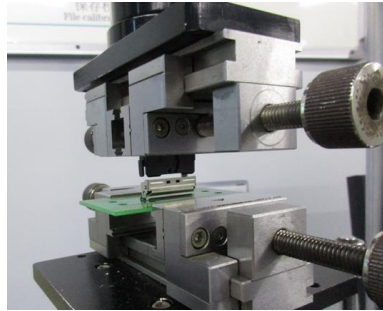
3.5.5 Un-mating Force

Mating force(module only):0.6 N maximum per pin.
 Un-mating force(module only):0.06 N minimum per pin.)
 The following details shall apply
 Speed:25.4 mm/minute
 Reference:EIA-364-13

Test result: (N)

Sample No.	1#	2#	3#	4#	5#
Un-mating	0.09	0.09	0.07	0.09	0.09

All sample were passed



3.5.6 Low Level Contact Resistance

The mating pair should be meet:

LLCR initial: 20 milliohms maximum(or Baseline)

After test: $\Delta R=30$ milliohms maximum

The following details shall apply:

Test voltage:20mV DC maximum at open circuit

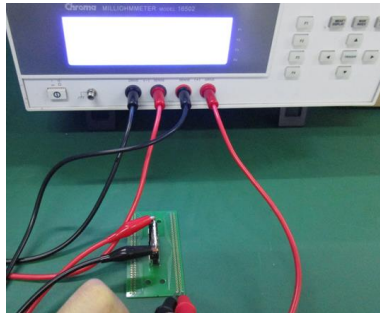
Test current: not to exceed 100mA

Reference:EIA-364-23C

Test result: Baseline of initial (Unit m Ω)

Sample No.	1#	2#	3#	4#	5#
1	21.16	24.05	23.48	21.31	22.56
2	37.23	41.61	36.28	38.28	37.57
3	35.21	36.79	42.87	38.59	37.80
4	20.37	21.34	21.56	21.20	21.32
5	38.03	37.45	37.27	36.99	36.57
6	36.03	36.24	21.48	35.63	40.03
7	20.97	21.16	37.59	20.27	21.06
8	38.79	39.59	35.49	36.67	39.45
9	35.09	37.97	20.36	36.20	38.11
10	20.71	23.24	39.36	21.37	20.57
11	36.29	36.62	38.70	35.64	38.09
12	35.78	37.77	20.90	37.12	38.06
13	20.75	23.02	38.65	20.97	21.73
14	37.42	36.32	36.34	36.14	36.97
15	35.64	34.93	21.30	35.06	38.05
16	20.82	20.04	40.03	20.12	21.20
17	36.87	35.61	37.43	39.73	38.52
18	40.56	37.46	20.51	35.42	37.10
19	21.51	20.70	35.99	22.12	22.50
20	36.27	36.37	36.99	35.72	36.25
21	36.87	36.60	21.37	36.63	38.72
22	22.09	20.42	38.37	21.37	23.15
23	35.18	35.71	35.30	36.68	40.32
24	36.03	35.43	20.37	35.55	37.86
25	21.09	20.75	37.62	21.15	22.16
26	38.98	38.29	37.79	35.20	36.77
27	38.73	37.97	20.69	35.81	35.82
28	21.63	20.92	36.30	23.14	21.78
29	37.97	39.95	35.50	39.22	38.27
30	36.91	37.39	20.71	38.01	38.78
31	21.38	20.56	38.34	21.99	22.19
32	38.25	36.19	37.61	37.56	39.62
33	37.78	35.78	38.01	35.70	39.87
34	22.39	23.53	22.15	20.99	20.69
35	39.29	36.33	38.01	36.65	37.71
36	36.01	36.90	39.26	35.64	36.26
37	23.91	21.86	21.37	23.69	22.12
38	20.57	20.35	21.14	21.38	19.98
39	35.21	36.08	36.22	37.18	35.91
40	34.78	36.03	36.33	35.69	34.11
41	20.31	20.97	20.74	21.34	19.90
42	36.24	36.79	36.70	36.84	35.03
43	36.63	36.12	35.62	36.28	34.52

44	19.68	20.19	20.87	19.84	19.18
45	36.46	36.32	38.83	36.37	35.49
46	35.80	35.45	37.60	37.00	34.09
47	20.05	20.12	21.34	19.87	19.63
48	35.36	34.90	36.15	35.07	35.27
49	34.58	34.81	35.80	35.37	34.04
50	19.67	19.67	20.28	20.31	19.39
51	35.29	35.03	37.33	35.43	34.00
52	34.73	35.24	36.15	35.75	34.50
53	20.34	20.22	21.60	20.50	19.97
54	35.71	36.55	37.63	36.59	34.74
55	35.25	35.70	36.01	36.53	34.54
56	19.92	21.22	21.95	20.36	20.12
57	35.34	34.81	37.75	35.27	35.52
58	34.96	35.05	36.51	35.90	36.23
59	19.86	20.12	20.94	19.66	19.70
60	35.59	35.54	34.32	34.21	35.05
61	34.97	35.01	35.98	34.62	34.79
62	19.52	19.78	20.35	19.32	19.62
63	35.15	35.66	38.46	34.35	34.59
64	34.29	35.09	36.42	35.22	34.51
65	19.84	19.74	20.64	19.59	19.66
66	35.05	34.21	35.93	34.77	35.02
67	35.80	35.07	37.99	36.20	34.79
68	19.93	19.57	21.08	19.67	19.85
69	37.04	34.40	35.31	34.68	35.18
70	36.68	36.90	36.26	36.22	37.08
71	20.42	20.26	20.66	20.25	20.28
72	35.15	34.55	34.95	34.78	35.01
73	36.91	35.59	37.02	37.94	36.13
74	20.45	19.67	20.30	20.68	20.18
Max.	40.56	41.61	42.87	39.73	40.32
Min.	19.52	19.57	20.28	19.32	19.18
Aver.	30.86	30.89	31.49	30.82	30.99



3.5.7 High Temperature Life-Preconditioning

No Damage, 10m ohms maximum change from initial (baseline) contact resistance

The following details shall apply

Test preconditioning: 72 hours, 105°C

Test result:

Sample No.	1#	2#	3#	4#	5#
Result	PASS	PASS	PASS	PASS	PASS

Test result: All Samples were passed, No physical damage found after High Temperature test.



3.5.8 High Temperature Life

No Damage, 10m ohms maximum change from initial (baseline) contact resistance

The following details shall apply

Test preconditioning: 72 hours, 105°C

Test temperature: 105°C

Duration: 750 hours

Reference: EIA-364-17 method A test condition 2, test time condition C

Test result:

Sample No.	1#	2#	3#	4#	5#
Result	PASS	PASS	PASS	PASS	PASS

Test result: All Samples were passed. No physical damage found after High Temperature test.



3.5.9 Low Level Contact Resistance

The mating pair should be meet:

LLCR initial: 20 milliohms maximum (or Baseline)

After test: $\Delta R = 30$ milliohms maximum

The following details shall apply:

Test voltage: 20mV DC maximum at open circuit

Test current: not to exceed 100mA

Reference: EIA-364-23C

Test result: (Unit mΩ)

Sample No.	1#	2#	3#	4#	5#	1#	2#	3#	4#	5#
	Baseline					Change VS initial ΔR				
1	25.35	24.57	24.05	20.78	22.33	4.19	0.52	0.57	0.53	0.23
2	39.79	48.00	45.05	40.49	40.15	2.56	6.39	8.77	2.21	2.58
3	35.61	40.01	37.54	39.04	37.89	0.40	3.22	5.33	0.45	0.09
4	24.78	22.71	25.68	24.07	22.71	4.41	1.37	4.12	2.87	1.39
5	38.79	37.58	40.64	37.58	39.55	0.76	0.13	3.37	0.59	2.98
6	35.15	36.26	36.72	37.79	39.61	0.88	0.02	0.76	2.16	0.42
7	21.42	22.26	22.27	22.03	22.20	0.45	1.10	0.79	1.76	1.14
8	39.48	37.14	40.87	41.21	41.31	0.69	2.45	3.28	4.54	1.86
9	36.68	36.23	39.15	38.30	37.15	1.59	1.74	3.66	2.10	0.96
10	23.11	21.30	22.78	22.87	22.54	2.40	1.94	2.42	1.50	1.97
11	37.25	40.17	39.29	36.87	41.99	0.96	3.55	0.07	1.23	3.90
12	35.60	38.93	40.16	37.59	41.15	0.18	1.16	1.46	0.47	3.09
13	21.05	23.00	24.33	27.30	23.92	0.30	0.02	3.43	6.33	2.19
14	39.36	37.78	36.18	40.87	37.78	1.94	1.46	2.47	4.73	0.81
15	36.36	36.96	38.69	35.79	41.39	0.72	2.03	2.35	0.73	3.34
16	21.60	20.80	21.22	22.08	23.25	0.78	0.76	0.08	1.96	2.05
17	37.88	42.50	37.30	42.75	41.47	1.01	6.89	2.73	3.02	2.95
18	39.49	39.07	41.11	37.81	38.51	1.07	1.61	3.68	2.39	1.41
19	23.70	25.33	21.77	26.02	22.69	2.19	4.63	1.26	3.90	0.19

20	36.55	39.30	36.10	37.59	37.79	0.28	2.93	0.11	1.87	1.54
21	38.02	39.58	38.33	38.25	40.28	1.15	2.98	1.34	1.62	1.56
22	23.29	21.94	22.09	23.94	23.18	1.20	1.52	0.72	2.57	0.03
23	37.40	40.64	40.62	40.72	44.44	2.22	4.93	2.25	4.04	4.12
24	38.16	36.93	35.79	38.19	41.08	2.13	1.50	0.49	2.64	3.22
25	23.89	20.77	21.63	22.18	22.46	2.80	0.02	1.26	1.03	0.30
26	38.82	39.28	41.06	42.86	41.86	0.16	0.99	3.44	7.66	5.09
27	39.12	39.53	45.02	39.66	43.44	0.39	1.56	7.23	3.85	7.62
28	23.36	21.83	26.89	23.91	26.04	1.73	0.91	6.20	0.77	4.26
29	39.30	39.79	40.75	42.04	42.13	1.33	0.16	4.45	2.82	3.86
30	37.68	39.20	40.12	39.30	37.92	0.77	1.81	4.62	1.29	0.86
31	24.98	24.20	24.56	23.95	25.17	3.60	3.64	3.85	1.96	2.98
32	38.66	40.69	40.37	40.88	42.36	0.41	4.50	2.03	3.32	2.74
33	38.38	40.35	38.77	38.02	41.84	0.60	4.57	1.16	2.32	1.97
34	23.23	23.07	21.25	23.17	24.14	0.84	0.46	0.90	2.18	3.45
35	44.96	36.67	40.13	45.03	41.31	5.67	0.34	2.12	8.38	3.60
36	38.21	40.38	41.72	39.40	39.24	2.20	3.48	2.46	3.76	2.98
37	27.17	24.72	27.72	27.34	26.21	3.26	2.86	6.35	3.65	4.09
38	21.81	20.43	21.31	20.80	21.52	1.24	0.08	0.17	0.58	1.54
39	41.04	42.02	38.25	36.68	36.94	5.83	5.94	2.03	0.50	1.03
40	35.39	34.94	34.98	34.75	34.89	0.61	1.09	1.35	0.94	0.78
41	21.05	20.74	21.24	20.68	20.25	0.74	0.23	0.50	0.66	0.35
42	36.10	31.52	38.15	36.42	34.98	0.14	5.27	1.45	0.42	0.05
43	35.61	36.35	35.06	34.94	34.72	1.02	0.23	0.56	1.34	0.20
44	20.58	21.14	20.29	19.93	19.47	0.90	0.95	0.58	0.09	0.29
45	37.77	38.60	36.61	39.10	36.01	1.31	2.28	2.22	2.73	0.52
46	34.68	36.44	35.02	35.25	34.69	1.12	0.99	2.58	1.75	0.60
47	20.87	22.38	20.52	20.27	19.97	0.82	2.26	0.82	0.40	0.34
48	35.76	42.04	37.07	37.46	41.35	0.40	7.14	0.92	2.39	6.08
49	37.69	39.67	36.18	34.50	35.45	3.11	4.86	0.38	0.87	1.41
50	20.26	20.56	20.11	19.67	19.68	0.59	0.89	0.17	0.64	0.29
51	35.45	36.88	35.58	36.08	35.40	0.16	1.85	1.75	0.65	1.40
52	37.95	39.02	35.29	35.45	36.53	3.22	3.78	0.86	0.30	2.03
53	20.88	22.32	20.52	20.92	20.40	0.54	2.10	1.08	0.42	0.43
54	36.17	39.94	38.14	40.32	38.14	0.46	3.39	0.51	3.73	3.40
55	36.94	38.68	36.03	37.57	38.01	1.69	2.98	0.02	1.04	3.47
56	22.46	24.25	24.53	22.52	22.14	2.54	3.03	2.58	2.16	2.02
57	36.65	38.89	37.07	40.97	37.11	1.31	4.08	0.68	5.70	1.59
58	38.32	39.01	36.66	36.94	39.23	3.36	3.96	0.15	1.04	3.00
59	23.47	20.92	21.06	20.28	20.97	3.61	0.80	0.12	0.62	1.27
60	37.23	37.26	36.85	36.71	37.58	1.64	1.72	2.53	2.50	2.53
61	36.30	39.71	36.16	37.64	37.63	1.33	4.70	0.18	3.02	2.84
62	20.35	20.59	20.00	20.03	20.04	0.83	0.81	0.35	0.71	0.42
63	36.01	36.52	35.38	35.61	25.48	0.86	0.86	3.08	1.26	9.11
64	37.27	37.24	35.44	36.20	36.01	2.98	2.15	0.98	0.98	1.50
65	20.99	22.70	22.31	19.75	20.47	1.15	2.96	1.67	0.16	0.81
66	36.78	40.26	35.83	37.77	36.45	1.73	6.05	0.10	3.00	1.43
67	37.96	36.48	37.14	36.01	36.16	2.16	1.41	0.85	0.19	1.37
68	20.59	21.65	20.33	20.07	20.04	0.66	2.08	0.75	0.40	0.19
69	37.50	38.06	36.45	38.70	37.21	0.46	3.66	1.14	4.02	2.03
70	36.75	40.10	37.06	38.10	38.27	0.07	3.20	0.80	1.88	1.19
71	22.50	21.93	21.68	21.11	21.77	2.08	1.67	1.02	0.86	1.49
72	34.26	37.16	35.70	37.50	35.53	0.89	2.61	0.75	2.72	0.52
73	36.33	38.39	36.89	37.64	38.03	0.58	2.80	0.13	0.30	1.90
74	22.80	22.15	20.20	21.16	21.03	2.35	2.48	0.10	0.48	0.85
Max.	44.96	48.00	45.05	45.03	44.44	5.83	7.14	8.77	8.38	9.11
Min.	20.26	20.43	20.00	19.67	19.47	0.07	0.02	0.02	0.09	0.03
Aver.	32.22	32.92	32.50	32.61	32.68	1.52	2.40	1.86	2.04	2.00

All samples can meet spec 10 milliohm max change from initial contact resistance.



3.5.10 Un-mating Force

Mating force(module only):0.6 N maximum per pin.
 Un-mating force(module only):0.06 N minimum per pin.
 The following details shall apply
 Speed:25.4 mm/minute
 Reference:EIA-364-13

Test result: (N)

Sample No.	1#	2#	3#	4#	5#
Un-mating	0.09	0.08	0.07	0.07	0.07

All sample were passed



3.6 Group F

3.6.1 Visual Inspection

Reference: EIA-364-18
 Procedure: Visual, dimensional and functional per applicable quality inspection plan.
 Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.6.2 Contact Normal Force

Normal force:0.49 N minimum at nominal
 The following details shall apply
 Speed:25.4 mm/minute
 Reference:EIA-364-04

Test result: (Unit g)

Sample No.	1#	2#	3#	4#	5#
1	81	85	84	85	84
2	60	57	58	56	60
3	56	57	56	56	54
4	87	83	82	84	84
5	60	56	59	58	57
6	59	56	61	56	58
7	85	84	85	88	87
8	59	59	60	56	59
9	56	64	57	59	56
10	84	84	88	81	86
11	57	56	59	59	53
12	58	56	56	60	60
13	81	87	83	84	85
14	59	57	56	55	60
15	59	57	56	58	58
16	83	86	86	83	85

17	58	57	57	58	57
18	61	61	58	62	56
19	84	87	82	85	86
20	56	61	58	59	59
21	60	58	60	60	57
22	83	85	83	82	82
23	59	58	59	58	56
24	55	56	59	58	59
25	81	84	88	83	85
26	57	56	60	54	58
27	58	57	61	60	60
28	86	83	86	84	87
29	57	57	57	61	56
30	62	57	59	59	54
31	82	85	89	82	84
32	56	56	56	56	59
33	58	61	59	58	58
34	86	84	87	86	84
35	55	59	58	61	63
36	60	55	57	61	61
37	85	85	86	84	82
38	84	82	88	86	87
39	56	58	60	58	59
40	62	61	61	57	61
41	85	85	81	82	84
42	61	60	59	60	57
43	56	61	58	56	57
44	82	86	86	84	82
45	57	59	58	58	58
46	58	60	59	57	57
47	85	84	83	81	85
48	58	60	58	58	57
49	56	56	62	56	55
50	89	85	86	83	84
51	58	58	55	57	59
52	61	61	61	58	58
53	83	86	84	85	86
54	56	58	58	57	58
55	56	62	57	58	62
56	83	83	82	83	93
57	59	56	58	57	58
58	60	60	56	63	57
59	83	81	83	84	86
60	56	56	53	59	57
61	57	56	59	56	58
62	82	84	85	85	82
63	63	59	57	58	62
64	56	55	53	59	56
65	85	84	84	82	82
66	56	56	54	57	57
67	59	58	59	58	59
68	86	82	84	85	85
69	58	61	58	61	62
70	57	57	58	58	62
71	84	84	82	84	85
72	58	57	59	57	61
73	59	58	56	58	58
74	85	82	83	86	84
Max.	89	87	89	88	93
Min.	55	55	53	54	53
Aver.	67	67	67	67	68

All samples can meet spec 0.49N Max



3.6.3 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.7 Group G

3.7.1 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.7.2 Low Level Contact Resistance

The mating pair should be meet:

LLCR initial: 20 milliohms maximum(or Baseline)

After test: $\Delta R=30$ milliohms maximum

The following details shall apply:

Test voltage:20mV DC maximum at open circuit

Test current: not to exceed 100mA

Reference:EIA-364-23C

Test result: Baseline of initial (Unit m Ω)

Sample No.	1#	2#	3#	4#	5#
1	21.38	20.20	21.34	20.08	21.53
2	36.79	41.85	36.66	36.04	40.56
3	36.23	38.05	37.47	36.63	37.38
4	21.77	21.93	20.73	20.71	22.25
5	35.24	35.44	38.17	38.25	35.50
6	39.33	38.76	38.83	38.89	37.71
7	22.29	21.25	22.06	19.62	22.53
8	39.68	36.71	40.23	36.13	36.71
9	38.92	39.07	37.14	39.19	37.17
10	22.31	20.76	20.65	21.33	20.76
11	38.28	39.64	40.50	36.26	37.90
12	39.75	37.83	41.45	38.13	38.03
13	19.67	20.97	18.75	21.51	21.41
14	36.91	36.59	36.98	36.87	36.07
15	35.96	36.59	37.18	37.97	37.16
16	21.48	22.79	20.86	23.46	20.32
17	37.75	36.59	36.60	37.67	39.43
18	38.30	36.59	35.43	35.32	36.08
19	19.92	22.79	20.74	20.96	21.29
20	36.68	36.59	41.42	39.86	38.42
21	40.17	36.59	40.23	35.73	35.86
22	20.72	21.46	21.05	19.73	20.44
23	39.05	36.59	37.37	36.64	39.69
24	37.34	36.59	36.78	36.71	39.38
25	20.93	20.43	20.71	23.08	20.93
26	39.72	36.59	40.42	37.83	38.56
27	39.48	36.59	37.12	39.44	35.78
28	20.52	21.29	21.07	20.21	20.89

29	35.61	36.59	38.64	35.68	41.04
30	40.05	36.59	38.78	35.79	40.25
31	19.36	20.88	20.53	21.68	20.79
32	40.20	36.59	38.68	39.61	40.98
33	37.72	36.59	38.42	39.22	38.76
34	21.82	20.35	20.80	20.60	20.85
35	38.75	36.59	36.55	40.40	35.23
36	36.45	36.59	35.66	39.19	38.78
37	20.20	21.10	20.54	20.59	21.20
38	20.77	21.34	21.41	21.79	21.37
39	38.06	36.59	36.40	36.44	36.17
40	38.53	36.59	37.71	38.41	38.04
41	20.56	21.22	20.52	21.44	19.55
42	37.14	36.59	38.46	38.17	39.61
43	41.55	36.59	37.78	39.75	34.91
44	21.50	21.53	20.33	21.06	21.24
45	36.70	36.59	39.34	34.45	37.66
46	36.63	36.59	39.09	38.03	38.15
47	21.17	21.00	20.15	20.67	20.70
48	36.22	36.59	36.59	36.71	38.12
49	37.36	36.59	35.95	38.04	38.01
50	20.99	19.95	20.52	21.23	20.76
51	36.14	36.59	40.64	39.07	40.77
52	37.15	36.59	34.69	39.95	37.50
53	21.29	20.24	21.31	21.39	21.43
54	39.67	36.59	39.83	38.59	38.62
55	39.55	36.59	39.16	35.17	38.48
56	21.02	21.00	21.03	21.05	19.98
57	38.17	36.59	39.60	39.99	37.92
58	35.45	36.59	37.01	36.32	37.59
59	21.89	21.99	21.17	22.28	21.39
60	39.06	36.59	36.37	39.67	38.41
61	37.24	36.59	37.54	38.67	39.94
62	20.95	20.61	21.38	22.07	20.45
63	35.98	36.59	36.86	39.95	40.31
64	38.00	36.59	35.82	40.16	37.84
65	21.29	21.58	21.37	20.83	22.55
66	37.05	36.59	37.01	38.77	38.30
67	38.86	36.59	39.56	40.91	37.64
68	20.33	21.81	20.71	21.35	20.47
69	39.68	36.59	40.80	39.03	38.94
70	37.61	36.59	41.54	37.35	38.44
71	21.38	21.46	21.45	20.50	21.35
72	36.29	36.59	35.25	40.12	37.72
73	35.32	36.59	36.06	41.14	36.32
74	20.79	20.13	21.37	22.67	20.35
Max.	41.55	41.85	41.54	41.14	41.04
Min.	19.36	19.95	18.75	19.62	19.55
Aver.	31.95	31.37	32.00	32.16	32.09



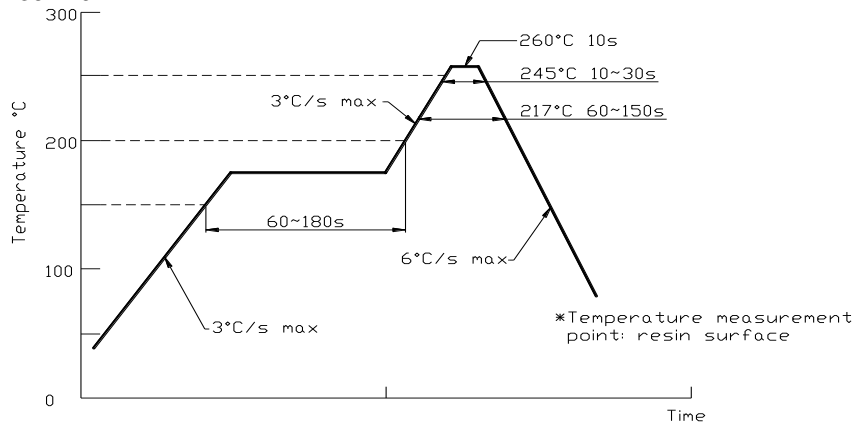
3.7.3 Reseating
No evidence of physical damage

The following details shall apply
 Speed:25.4 mm/minute(Manually)
 Number of cycle:3 cycles
 Reference:EIA-364-13

Test result: All Samples were passed, No physical damage

3.7.4 Resistance To Soldering Heat(Infrared Reflow)

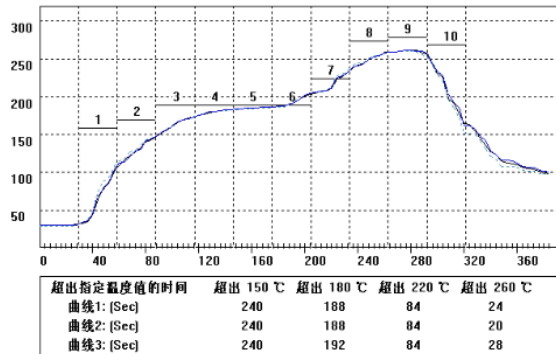
No evidence of physical damage
 The following details shall apply
 Average ramp rate:1~4°C per second
 Temperature(board top surface):260°C peak
 Duration:30~35 seconds
 Reference:EIA-364-29



Test result:

Sample No.	1#	2#	3#	4#	5#
Result	Pass	Pass	Pass	Pass	Pass

There was no physical damage found after test.



3.7.5 Temperature Rise

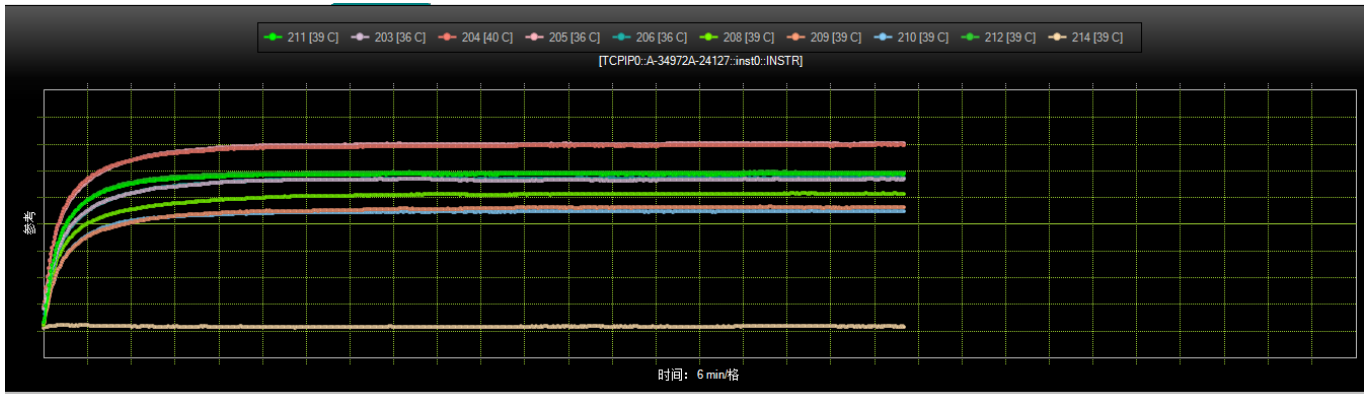
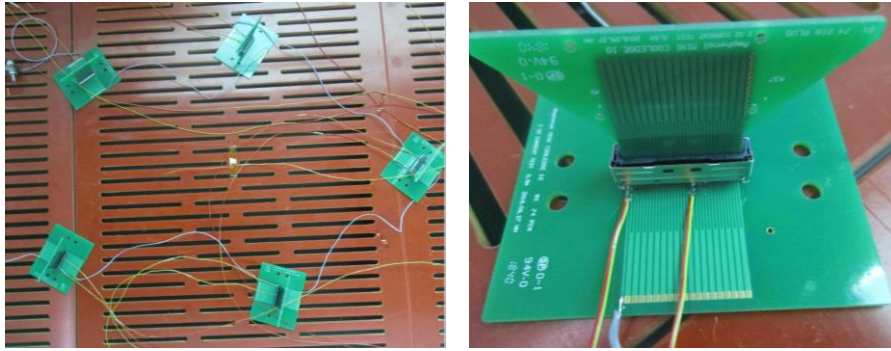
The temperature rise above ambient shall not exceed 30°C at any point in the system when contact positions specified are powered at the power levels specified herein:

The following details shall apply:
 Ambient Conditions: still air at 25°C
 Current Rating : 0.5 A per contact
 Reference:EIA-364-70

Test result:(Unit:°C)

Sample No.	1#	2#	3#	4#	5#
Result(Max)	17.41	17.59	14.93	17.13	17.30
Result(Min)	13.55	13.77	13.39	12.95	12.87

All of sample temperature rise are less than 30°C.



3.7.6 Low Level Contact Resistance

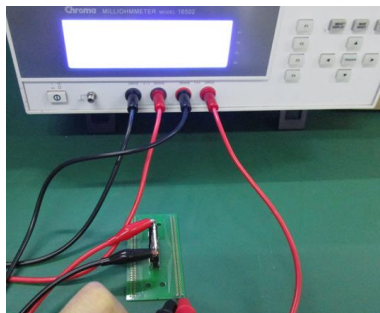
The mating pair should meet:
 LLCR initial: 20 milliohms maximum(or Baseline)
 After test: $\Delta R=30$ milliohms maximum
 The following details shall apply:
 Test voltage:20mV DC maximum at open circuit
 Test current: not to exceed 100mA
 Reference:EIA-364-23C

Test result: (Unit m Ω)

Sample No.	1#	2#	3#	4#	5#	1#	2#	3#	4#	5#
	Baseline					Change VS initial ΔR				
1	19.89	20.66	19.85	22.24	20.88	1.49	0.46	1.49	2.16	0.65
2	37.79	38.12	36.56	36.42	40.76	1.00	3.73	0.10	0.38	0.20
3	35.54	38.93	38.22	36.68	32.89	0.69	0.88	0.75	0.05	4.49
4	20.88	20.98	22.23	20.74	20.96	0.89	0.95	1.50	0.03	1.29
5	35.39	36.66	38.46	40.31	42.10	0.15	1.22	0.29	2.06	6.60
6	38.22	38.09	36.63	36.75	40.15	1.11	0.67	2.20	2.14	2.44
7	20.96	20.54	19.54	20.04	20.99	1.33	0.71	2.52	0.42	1.54
8	40.83	37.07	36.29	37.79	38.03	1.15	0.36	3.94	1.66	1.32
9	35.65	38.93	37.96	39.43	38.32	3.27	0.14	0.82	0.24	1.15
10	20.23	20.50	20.12	21.17	21.52	2.08	0.26	0.53	0.16	0.76
11	34.99	36.50	36.38	37.53	34.92	3.29	3.14	4.12	1.27	2.98
12	36.14	37.59	39.60	34.27	36.58	3.61	0.24	1.85	3.86	1.45
13	20.68	22.91	20.25	20.08	19.62	1.01	1.94	1.50	1.43	1.79
14	38.71	41.13	36.51	39.03	38.44	1.80	4.54	0.47	2.16	2.37
15	37.89	35.69	38.24	36.78	38.99	1.93	0.90	1.06	1.19	1.83
16	21.37	21.14	20.33	21.35	21.48	0.11	1.65	0.53	2.11	1.16
17	37.68	37.77	38.39	41.01	38.01	0.07	1.18	1.79	3.34	1.42
18	38.91	38.32	36.77	41.33	37.08	0.61	1.73	1.34	6.01	1.00
19	21.50	21.37	21.84	20.11	20.04	1.58	1.42	1.10	0.85	1.25
20	38.94	36.43	40.70	37.72	38.76	2.26	0.16	0.72	2.14	0.34
21	37.03	40.08	36.73	35.93	37.06	3.14	3.49	3.50	0.20	1.20
22	21.48	21.94	21.14	20.30	19.16	0.76	0.48	0.09	0.57	1.28
23	37.82	39.98	37.88	39.63	37.28	1.23	3.39	0.51	2.99	2.41
24	37.98	37.66	34.96	35.15	39.84	0.64	1.07	1.82	1.56	0.46
25	20.60	19.51	22.58	20.59	20.78	0.33	0.92	1.87	2.49	0.15
26	39.33	38.09	39.91	39.59	42.88	0.39	1.50	0.51	1.76	4.32

27	41.72	37.96	38.27	38.41	37.51	2.24	1.37	1.15	1.03	1.73
28	20.94	20.24	21.13	21.39	20.09	0.42	1.05	0.06	1.18	0.80
29	39.36	34.63	39.05	37.36	36.41	3.75	1.96	0.41	1.68	4.63
30	36.09	37.74	38.21	38.59	37.25	3.96	1.15	0.57	2.80	3.00
31	20.17	19.41	20.92	20.54	20.05	0.81	1.47	0.39	1.14	0.74
32	37.24	37.82	35.69	41.40	37.14	2.96	1.23	2.99	1.79	3.84
33	36.05	42.40	38.72	39.19	39.38	1.67	5.81	0.30	0.03	0.62
34	20.38	21.43	21.03	20.75	20.48	1.44	1.08	0.23	0.15	0.37
35	38.14	38.99	39.06	36.96	36.24	0.61	2.40	2.51	3.44	1.01
36	39.65	40.60	38.28	40.90	38.27	3.20	4.01	2.62	1.71	0.51
37	22.15	19.71	22.23	20.65	20.62	1.95	1.39	1.69	0.06	0.58
38	21.13	20.84	20.71	20.21	20.69	0.36	0.50	0.70	1.58	0.68
39	40.77	40.80	35.65	35.98	40.31	2.71	4.21	0.75	0.46	4.14
40	41.03	36.10	39.06	36.22	39.85	2.50	0.49	1.35	2.19	1.81
41	20.89	19.91	21.92	22.71	19.59	0.33	1.31	1.40	1.27	0.04
42	34.62	39.53	37.64	37.03	36.74	2.52	2.94	0.82	1.14	2.87
43	35.67	39.00	39.04	36.43	39.20	5.88	2.41	1.26	3.32	4.29
44	19.67	20.25	21.97	21.60	20.90	1.83	1.28	1.64	0.54	0.34
45	38.10	35.72	37.69	39.08	40.27	1.40	0.87	1.65	4.63	2.61
46	38.44	37.89	37.68	38.37	40.25	1.81	1.30	1.41	0.34	2.10
47	19.82	20.79	20.19	20.20	21.28	1.35	0.21	0.04	0.47	0.58
48	36.68	36.29	39.05	37.04	36.19	0.46	0.30	2.46	0.33	1.93
49	39.87	40.43	39.91	38.01	38.05	2.51	3.84	3.96	0.03	0.04
50	21.66	20.91	21.57	20.72	21.16	0.67	0.96	1.05	0.51	0.40
51	36.63	38.13	39.87	38.55	38.79	0.49	1.54	0.77	0.52	1.98
52	41.59	37.86	38.39	39.15	41.97	4.44	1.27	3.70	0.80	4.47
53	20.95	22.07	21.00	20.71	20.83	0.34	1.83	0.31	0.68	0.60
54	38.44	39.49	41.14	40.51	37.59	1.23	2.90	1.31	1.92	1.03
55	39.00	36.70	39.85	38.45	38.09	0.55	0.11	0.69	3.28	0.39
56	21.48	20.51	20.80	22.41	21.73	0.46	0.49	0.23	1.36	1.75
57	37.96	36.83	40.67	38.74	38.45	0.21	0.24	1.07	1.25	0.53
58	38.93	36.70	37.04	38.88	37.06	3.48	0.11	0.03	2.56	0.53
59	20.74	23.64	22.07	19.24	20.20	1.15	1.65	0.90	3.04	1.19
60	40.26	37.00	37.31	37.44	40.75	1.20	0.41	0.94	2.23	2.34
61	41.45	41.64	38.07	39.54	36.83	4.21	5.05	0.53	0.87	3.11
62	20.55	21.26	20.92	21.93	19.75	0.40	0.65	0.46	0.14	0.70
63	40.26	41.24	39.40	38.68	37.30	4.28	4.65	2.54	1.27	3.01
64	38.13	37.01	36.20	39.69	39.64	0.13	0.42	0.38	0.47	1.80
65	20.24	21.56	21.58	22.18	20.38	1.05	0.02	0.21	1.35	2.17
66	41.71	38.96	35.37	38.94	38.11	4.66	2.37	1.64	0.17	0.19
67	36.47	40.61	41.18	41.70	39.58	2.39	4.02	1.62	0.79	1.94
68	19.77	20.93	21.51	20.45	20.75	0.56	0.88	0.80	0.90	0.28
69	37.82	39.19	38.98	37.29	40.03	1.86	2.60	1.82	1.74	1.09
70	40.80	38.39	37.33	38.91	38.79	3.19	1.80	4.21	1.56	0.35
71	20.46	23.51	20.77	20.32	20.47	0.92	2.05	0.68	0.18	0.88
72	38.65	39.16	39.74	38.71	37.11	2.36	2.57	4.49	1.41	0.61
73	39.19	39.39	35.10	38.75	35.30	3.87	2.80	0.96	2.39	1.02
74	20.38	22.41	19.14	20.40	20.02	0.41	2.28	2.23	2.27	0.33
Max.	41.72	42.40	41.18	41.70	42.88	5.88	5.81	4.49	6.01	6.60
Min.	19.67	19.41	19.14	19.24	19.16	0.07	0.02	0.03	0.03	0.04
Aver.	32.14	32.30	32.11	32.21	32.09	1.72	1.67	1.36	1.46	1.59

All samples can meet spec 10 milliohm max change from initial contact resistance.



3.8 Group H

3.8.1 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.8.2 Solderability(可焊性)

95% of immersed area must show no voids or pin holes.

The following details shall apply

Immersed temperature: $245 \pm 5^{\circ}\text{C}$

Duration: 5 seconds

Reference: EIA-364-52

Test result:

Sample No.	1#	2#	3#	4#	5#
Result	Pass	Pass	Pass	Pass	Pass

All Samples' terminations were at least 95% covered.



3.8.3 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.9 Group I

3.9.1 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.9.2 Wrenching Strength-W/Mated Cable Passive Latch

With mated cable passive latch: 25 N minimum

Bend cable 90° at minimum bend radius. Pull in 4 axis directions for round cable. Pull in 2 axis directions for flat cable. No damage to plug/ cable assembly.

The following details shall apply

Reference: EIA-364-13

Test result: (N)

Sample No.	1#	2#	3#	4#	5#
Result	55.8	43.2	33.6	43.3	46.5

All samples can meet spec 25N Min.



3.10 Group J

3.10.1 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.10.2 Wrenching Strength-W/Mated Cable Passive Latch

With mated cable active latch:40 N minimum

Bend cable 90° at minimum bend radius. Pull in 4 axis directions for round cable. Pull in 2 axis directions for flat cable. No damage to plug/ cable assembly.

The following details shall apply

Reference:EIA-364-13

Test result: (N)

Sample No.	1#	2#	3#	4#	5#
Result	76.2	49.0	77.9	70.3	60.6

All samples can meet spec 40N Min.



3.11 Group K

3.11.1 Visual Inspection

Reference: EIA-364-18

Procedure: Visual, dimensional and functional per applicable quality inspection plan.

Requirement: Meets product drawing requirements.

Test result: All Samples were passed, No visual, dimensional, mechanical abnormalities were observed.

3.11.2 Active Latch Retention Force

Retention force (module only):50 N minimum.

The following details shall apply

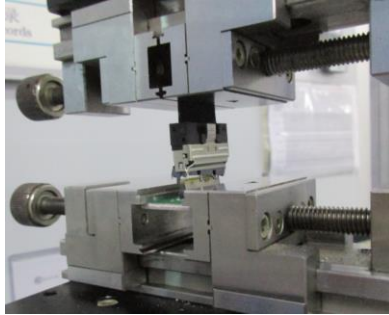
Speed:25.4 mm/minute

Reference:EIA-364-13

Test result: (N)

Sample No.	1#	2#	3#	4#	5#
Result	170.8	164.5	158.4	173.3	177.5

All samples can meet spec 50N Min.



SG42001-A.doc

.....**END**.....