# TEST REPORT

## AMPMODU II Pin Header Assy 2*16Pos

Date of issue: 2011. 07.11

| | |
|---|---|
| Prepared | Signature: Elline Liu 13Jul11 |
| Check | Signature: You Zhang 13Jul11 |
| Approval | Signature: K. Qdo |

## 1. Test Purpose

The purpose of this test is to verify the reliability of the localized 32p header.

## 2. Test Product

| No. | Part Number | Product Description |
|---|---|---|
| 1 | 2137614-1 | Low end AMPMODU II PIN HEADER ASSY 2X16POS |
| 2 | 1719057-1 | COVER, ASSY, MQS-HSG., 2X16 POSN |

## 3. Test Specification

Design Objectives: 108-101194Rev A

## 4. Test Items and Results

| Test Group | Test items in test group | Conclusion |
|---|---|---|
| A | Mating force/ Un-mating force/ Termination resistance, Dry circuit | OK |
| B | Retention force/ Solder ability test | OK |
| C | Vibration, broad-band random vibration/ Termination resistance, Dry circuit | OK |
| D | Insulation Resistance/ Temperature life & Humid heat/ Termination resistance, Dry circuit | OK |
| E | Thermal shock test 500 cycle min | OK |

## 5. Test Duration

2011-6-15~2011-7.11

## 6. Tested By

Elline Liu

## 7. General Remarks

- Environment Temperature: 25℃
- Environment Relative Humidity: 75%
- Acceptance Criterion: zero defects

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

## Group A: Mating force/Voltage proof/Termination resistance, Dry circuit/Un-mating force/Durability/SED test

| | Test sample | Date Code/Batch no. | Remarks |
|---|---|---|---|
| | A1-A6 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| A.1 | Confirmation of Product | 3.5.1 | Visually. dimensionally and functionally inspected per applicable inspection plan | Product shall be confirm the requirements of applicable product drawing and application specification | 0/6<br>Sample A1-A6 | Products meet requirements |
| A.2 | Mating force | 3.5.3 | Connectors to be mated together by applying a measured force at speed 50 mm/min to slide fully seated and locked at the first time. | Mating force<br>F<75N | 0/6<br>Sample A1-A6 | Products meet requirements<br>No / Mating force F<75N<br>1 / 40.01<br>2 / 50.49<br>3 / 50.25<br>4 / 46.34<br>5 / 41.81<br>6 / 38.88 |
| A3 | Voltage proof | 3.5.7 | Value and nature of the test Voltage>1000V AC 2s | No flash over or break down between adjacent contacts | 0/6<br>Sample A1-A6 | Products meet requirements |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| A4 | Termination resistance, Dry circuit | 3.5.9 | Subject mated contacts assembled in housing to 20mV open circuit at 100mA max. | 20mΩ max | 0/6<br>Sample A1-A6 | Products meet requirements |

| Pin No | Sample A1 | | Sample A2 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.68 | 2.35 | 2.87 | 2.87 |
| 2 | 2.28 | 2.78 | 2.77 | 2.87 |
| 3 | 3.67 | 2.50 | 2.87 | 2.86 |
| 4 | 2.55 | 2.36 | 2.57 | 2.87 |
| 5 | 2.13 | 2.41 | 2.47 | 2.90 |
| 6 | 2.38 | 2.55 | 2.60 | 2.87 |
| 7 | 2.46 | 2.51 | 2.69 | 2.46 |
| 8 | 2.43 | 2.41 | 2.36 | 2.43 |
| 9 | 2.21 | 2.18 | 2.66 | 2.21 |
| 10 | 2.32 | 2.28 | 2.79 | 2.32 |
| 11 | 2.06 | 2.23 | 2.36 | 2.87 |
| 12 | 2.16 | 2.20 | 2.27 | 2.66 |
| 13 | 2.24 | 2.51 | 2.84 | 2.57 |
| 14 | 2.27 | 2.52 | 2.77 | 2.87 |
| 15 | 2.93 | 2.16 | 2.77 | 2.47 |
| 16 | 2.50 | 2.50 | 2.78 | 2.77 |
| Max | 3.67 | 2.78 | 2.87 | 2.90 |
| Min | 2.06 | 2.16 | 2.27 | 2.21 |
| Ave | 2.45 | 2.40 | 2.65 | 2.68 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample A3 | | Sample A4 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.35 | 2.47 | 2.57 | 2.84 |
| 2 | 2.72 | 2.35 | 2.53 | 2.77 |
| 3 | 2.53 | 2.65 | 2.72 | 2.67 |
| 4 | 2.50 | 2.31 | 2.56 | 2.78 |
| 5 | 2.70 | 2.15 | 2.43 | 2.87 |
| 6 | 2.82 | 2.35 | 2.68 | 2.66 |
| 7 | 2.96 | 2.55 | 2.92 | 2.59 |
| 8 | 2.35 | 3.12 | 2.77 | 3.12 |
| 9 | 2.25 | 2.49 | 2.73 | 2.95 |
| 10 | 2.35 | 2.50 | 2.66 | 3.12 |
| 11 | 2.45 | 2.80 | 2.08 | 2.65 |
| 12 | 2.65 | 2.57 | 2.71 | 2.50 |
| 13 | 2.57 | 2.70 | 2.82 | 2.46 |
| 14 | 2.68 | 2.72 | 2.79 | 2.55 |
| 15 | 2.42 | 2.60 | 2.97 | 2.65 |
| 16 | 3.45 | 2.72 | 2.64 | 2.81 |
| Max | 3.45 | 3.12 | 2.97 | 3.12 |
| Min | 2.25 | 2.15 | 2.08 | 2.46 |
| Ave | 2.61 | 2.56 | 2.66 | 2.75 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| | | | | | | |

| Pin No | Sample A5 | | Sample A6 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.73 | 2.64 | 2.78 | 2.36 |
| 2 | 2.50 | 2.44 | 2.56 | 2.57 |
| 3 | 2.40 | 2.35 | 2.81 | 2.68 |
| 4 | 2.46 | 2.72 | 2.72 | 2.42 |
| 5 | 2.96 | 2.67 | 2.20 | 2.32 |
| 6 | 2.40 | 2.61 | 2.77 | 2.20 |
| 7 | 2.19 | 2.71 | 2.47 | 2.41 |
| 8 | 2.71 | 2.75 | 2.56 | 2.54 |
| 9 | 2.57 | 2.46 | 2.78 | 2.80 |
| 10 | 2.37 | 2.61 | 3.14 | 2.49 |
| 11 | 2.78 | 2.31 | 2.58 | 2.35 |
| 12 | 2.56 | 2.27 | 2.60 | 2.52 |
| 13 | 2.64 | 2.52 | 2.39 | 2.32 |
| 14 | 2.67 | 2.39 | 2.66 | 2.56 |
| 15 | 2.48 | 2.27 | 2.46 | 2.67 |
| 16 | 2.14 | 2.42 | 2.79 | 2.66 |
| Max | 2.96 | 2.75 | 3.14 | 2.80 |
| Min | 2.14 | 2.27 | 2.20 | 2.20 |
| Ave | 2.53 | 2.51 | 2.64 | 2.49 |

| | | | | | | |
|---|---|---|---|---|---|---|
| A5 | Un-mating force | 3.5.4 | Connectors with primary lock to be unmated by applying a measured force at speed 50 mm/min to slide out at the first time.<br>Tyco Electronics | Un-mating Force:<br>30<F<75N | 0/6<br>Sample A1-A6 | Products meet requirements |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| | | | spec: 109-42 | | | No / Un-mating Force 30<F<75N<br>1 34.83<br>2 39.42<br>3 33.71<br>4 32.96<br>5 33.65<br>6 32.35 |
| A6 | Durability | 3.5.5 | Mate and un-mate connector assemblies for 20 cycles<br>SPEC:EIA 364-9C | There is no damage after 20 cycles mate and un-mate | 0/6<br>Sample A1-A6 | Products meet requirements |
| A7 | Termination resistance, Dry circuit | 3.5.9 | Subject mated contacts assembled in housing to 20mV open circuit at 100mA max. | 20mΩ max | 0/6<br>Sample A1-A6 | Products meet requirements |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

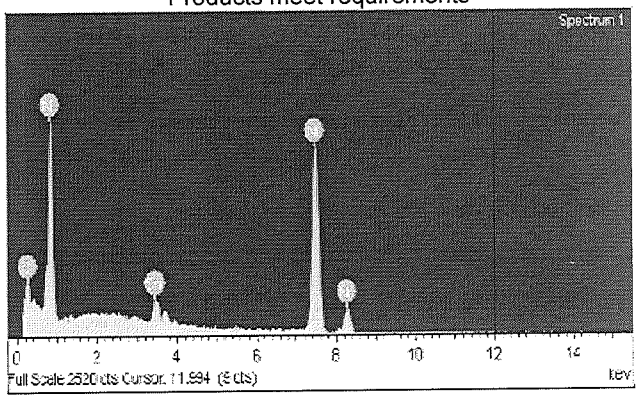
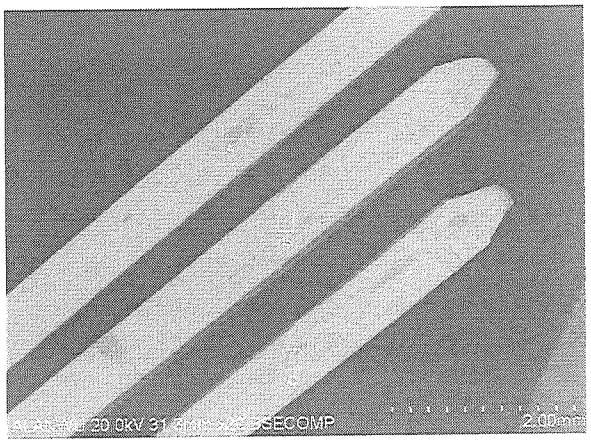
| Pin No | Sample A1 | | Sample A2 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.91 | 2.96 | 2.94 | 3.18 |
| 2 | 2.74 | 2.63 | 2.78 | 2.85 |
| 3 | 3.29 | 2.81 | 2.93 | 3.90 |
| 4 | 2.73 | 2.71 | 2.86 | 2.62 |
| 5 | 2.67 | 2.93 | 2.69 | 2.75 |
| 6 | 2.55 | 2.96 | 2.82 | 3.40 |
| 7 | 2.80 | 2.77 | 2.78 | 2.63 |
| 8 | 2.50 | 2.67 | 2.82 | 3.37 |
| 9 | 2.66 | 2.53 | 2.81 | 2.77 |
| 10 | 2.74 | 2.61 | 2.66 | 2.38 |
| 11 | 2.37 | 2.26 | 2.66 | 2.57 |
| 12 | 2.27 | 2.82 | 2.80 | 2.57 |
| 13 | 2.47 | 2.81 | 2.85 | 2.76 |
| 14 | 3.38 | 2.59 | 2.81 | 2.64 |
| 15 | 2.84 | 2.45 | 3.02 | 2.64 |
| 16 | 2.54 | 2.38 | 3.27 | 3.20 |
| Max | 3.38 | 2.96 | 3.27 | 3.90 |
| Min | 2.27 | 2.26 | 2.66 | 2.38 |
| Ave | 2.72 | 2.68 | 2.84 | 2.89 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample A3 | | Sample A4 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.89 | 3.47 | 2.66 | 3.78 |
| 2 | 3.82 | 3.68 | 3.26 | 2.63 |
| 3 | 2.78 | 2.84 | 2.80 | 2.86 |
| 4 | 3.72 | 2.64 | 3.65 | 3.69 |
| 5 | 2.81 | 2.96 | 2.81 | 2.82 |
| 6 | 2.66 | 2.63 | 3.02 | 2.88 |
| 7 | 2.66 | 2.91 | 3.47 | 2.82 |
| 8 | 2.80 | 2.81 | 3.68 | 3.81 |
| 9 | 2.85 | 2.93 | 2.85 | 2.46 |
| 10 | 2.81 | 3.56 | 3.60 | 2.56 |
| 11 | 2.02 | 2.77 | 2.62 | 2.80 |
| 12 | 3.27 | 2.87 | 3.75 | 2.85 |
| 13 | 3.08 | 3.53 | 3.40 | 3.81 |
| 14 | 2.85 | 2.61 | 2.53 | 3.02 |
| 15 | 3.70 | 3.26 | 3.37 | 3.57 |
| 16 | 2.62 | 2.72 | 3.78 | 3.68 |
| Max | 3.82 | 3.68 | 3.78 | 3.81 |
| Min | 2.02 | 2.61 | 2.53 | 2.46 |
| Ave | 2.96 | 3.01 | 3.20 | 3.13 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample A5 | | Sample A6 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 3.16 | 2.79 | 2.57 | 2.93 |
| 2 | 2.73 | 2.72 | 3.38 | 2.76 |
| 3 | 2.81 | 2.58 | 2.91 | 2.69 |
| 4 | 3.71 | 2.92 | 2.64 | 3.82 |
| 5 | 3.13 | 2.81 | 3.06 | 2.78 |
| 6 | 3.06 | 3.66 | 2.53 | 2.62 |
| 7 | 2.77 | 2.68 | 2.81 | 2.71 |
| 8 | 3.67 | 2.80 | 2.51 | 2.66 |
| 9 | 2.53 | 3.85 | 3.25 | 2.66 |
| 10 | 2.69 | 2.81 | 2.96 | 2.90 |
| 11 | 2.36 | 3.42 | 2.87 | 2.85 |
| 12 | 2.62 | 3.47 | 2.87 | 2.81 |
| 13 | 2.81 | 3.18 | 2.53 | 3.42 |
| 14 | 2.49 | 2.85 | 3.61 | 3.27 |
| 15 | 2.65 | 3.90 | 2.66 | 3.18 |
| 16 | 3.38 | 2.72 | 2.82 | 2.85 |
| Max | 3.71 | 3.90 | 3.61 | 3.82 |
| Min | 2.36 | 2.58 | 2.51 | 2.62 |
| Ave | 2.91 | 3.07 | 2.87 | 2.93 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| A8 | SED test | 3.5.6 | Mate and un-mating 20 cycles. Then surface plating analysis<br><br>SPEC: VW75174 PG2 | Plating no wear out(A,B,C three point is the most severe wear, if there is no Cu wear out ,then it is OK) | 0/6<br>Sample A1-A6 | Products meet requirements<br>  <br>  |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| A9 | Confirmation of Product | 3.5.1 | Visually. dimensionally and functionally inspected per applicable inspection plan | Product shall be confirm the requirements of applicable product drawing and application specification | 0/6 Sample A1-A6 | Products meet requirements |

## Group B: Retention force/ Solder ability test

| | Test sample | Date Code/Batch no. | Remarks |
|---|---|---|---|
| | B1-B6 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| B.1 | Confirmation of Product | 3.5.1 | Visually. dimensionally and functionally inspected per applicable inspection plan | Product shall be confirm the requirements of applicable product drawing and application specification | 0/6 Sample B1-B6 | Products meet requirements |
| B.2 | Retention force | 3.5.2 | Acc. IEC 512 8, Test 15a, testing speed: 25mm/min<br><br>SPEC: IEC 512-8 | Pin: 40N Min | 0/6 Sample B1-B6 | Products meet requirements |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | SampleB1 | | SampleB2 | |
|---|---|---|---|---|
| | Pin: 40N Min | | Pin: 40N Min | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 45.34 | 48.99 | 46.14 | 48.48 |
| 2 | 46.67 | 48.69 | 48.57 | 50.27 |
| 3 | 50.18 | 47.71 | 49.40 | 50.17 |
| 4 | 47.52 | 45.54 | 50.28 | 50.46 |
| 5 | 46.61 | 43.68 | 52.61 | 51.94 |
| 6 | 50.92 | 47.50 | 51.62 | 51.85 |
| 7 | 45.62 | 52.35 | 52.80 | 48.91 |
| 8 | 48.43 | 47.71 | 49.75 | 49.24 |
| 9 | 46.70 | 47.22 | 51.58 | 50.37 |
| 10 | 47.31 | 47.71 | 53.63 | 53.02 |
| 11 | 45.83 | 50.16 | 51.65 | 51.16 |
| 12 | 45.81 | 47.70 | 53.39 | 48.40 |
| 13 | 46.54 | 45.80 | 48.54 | 48.96 |
| 14 | 50.97 | 52.29 | 52.08 | 49.09 |
| 15 | 51.63 | 48.66 | 52.03 | 51.57 |
| 16 | 49.52 | 50.80 | 53.94 | 51.70 |
| Max | 51.63 | 52.35 | 53.94 | 53.02 |
| Min | 45.34 | 43.68 | 46.14 | 48.40 |
| Ave | 47.85 | 48.28 | 51.13 | 50.35 |

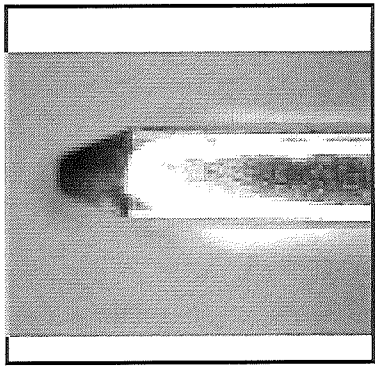
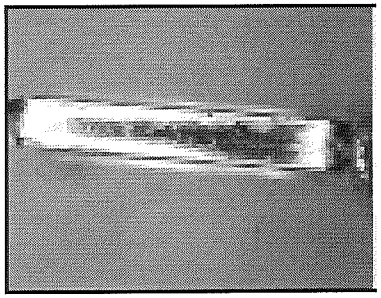
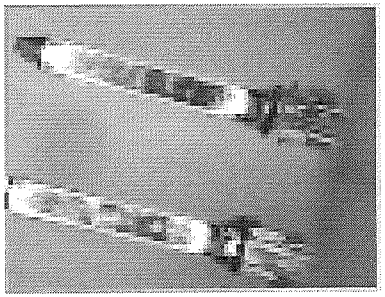
| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | SampleB3 | | SampleB4 | |
|---|---|---|---|---|
| | Pin: 40N Min | | Pin: 40N Min | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 47.59 | 46.28 | 52.21 | 50.83 |
| 2 | 47.61 | 46.83 | 53.82 | 50.30 |
| 3 | 46.68 | 50.46 | 50.30 | 53.73 |
| 4 | 48.29 | 48.87 | 51.82 | 48.44 |
| 5 | 57.21 | 53.48 | 50.59 | 50.06 |
| 6 | 51.69 | 55.16 | 44.46 | 51.03 |
| 7 | 52.76 | 51.77 | 49.37 | 48.29 |
| 8 | 52.58 | 51.84 | 48.54 | 49.65 |
| 9 | 48.63 | 50.18 | 48.69 | 44.69 |
| 10 | 49.19 | 51.13 | 51.32 | 45.74 |
| 11 | 51.63 | 47.85 | 50.87 | 46.58 |
| 12 | 49.30 | 44.66 | 52.00 | 46.91 |
| 13 | 51.34 | 45.75 | 50.51 | 48.04 |
| 14 | 49.04 | 48.62 | 50.37 | 51.30 |
| 15 | 50.32 | 48.88 | 49.36 | 54.68 |
| 16 | 53.76 | 48.45 | 51.43 | 54.90 |
| Max | 57.21 | 55.16 | 53.82 | 54.90 |
| Min | 46.68 | 44.66 | 44.46 | 44.69 |
| Ave | 50.47 | 49.39 | 50.35 | 49.70 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| | | | | | | |

| Pin No | SampleB5 | | SampleB6 | |
|---|---|---|---|---|
| | Pin: 40N Min | | Pin: 40N Min | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 47.36 | 50.63 | 46.52 | 43.05 |
| 2 | 55.34 | 50.65 | 46.44 | 47.36 |
| 3 | 51.69 | 49.47 | 47.29 | 43.65 |
| 4 | 47.24 | 48.64 | 45.54 | 47.58 |
| 5 | 50.22 | 50.71 | 47.46 | 51.16 |
| 6 | 49.55 | 52.86 | 53.25 | 55.93 |
| 7 | 49.01 | 48.00 | 48.67 | 47.39 |
| 8 | 53.77 | 54.79 | 51.14 | 47.25 |
| 9 | 52.52 | 54.67 | 54.78 | 54.86 |
| 10 | 48.71 | 50.23 | 46.10 | 56.90 |
| 11 | 51.81 | 53.45 | 49.22 | 51.53 |
| 12 | 50.70 | 48.55 | 48.55 | 47.57 |
| 13 | 49.13 | 52.61 | 46.66 | 50.02 |
| 14 | 53.05 | 53.49 | 50.77 | 52.31 |
| 15 | 54.46 | 50.05 | 49.21 | 51.66 |
| 16 | 52.74 | 50.53 | 46.18 | 51.14 |
| Max | 55.34 | 54.79 | 54.78 | 56.90 |
| Min | 47.24 | 48.00 | 45.54 | 43.05 |
| Ave | 51.08 | 51.21 | 48.61 | 49.96 |

| | | | | | | |
|---|---|---|---|---|---|---|
| B3 | Solder ability test | 3.5.13 | Acc. IEC 68 2-20<br>Aging dry heat: 16h/155℃ | Observed under a magnifying glass to see if the product is completely covered with Sn | 0/6<br>Sample B1-B6 | Products meet requirements |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| | | | | | |    PS: The result is OK. The darkness is because of the light |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| B4 | Confirmation of Product | 3.5.1 | Visually. dimensionally and functionally inspected per applicable inspection plan | Product shall be confirm the requirements of applicable product drawing and application specification | 0/6 Sample B1-B6 | Products meet requirements |

## Group C: Vibration, broad-band random vibration/ Termination resistance, Dry circuit

| | Test sample | Date Code/Batch no. | Remarks |
|---|---|---|---|
| | C1-C6 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| C.1 | Confirmation of Product | 3.5.1 | Visually. dimensionally and functionally inspected per applicable inspection plan | Product shall be confirm the requirements of applicable product drawing and application specification | 0/6 Sample C1-C6 | Products meet requirements |
| C.2 | Termination resistance, Dry circuit | 3.5.9 | Subject mated contacts assembled in housing to 20mV open circuit at 100mA max. Test method: 4.1 option1. SPEC:EIA 364-23C | 20mΩ max | 0/6 Sample C1-C6 | Products meet requirements |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample C1 | | Sample C2 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.53 | 2.57 | 2.43 | 2.62 |
| 2 | 2.40 | 2.28 | 2.08 | 2.20 |
| 3 | 2.70 | 2.42 | 2.72 | 2.37 |
| 4 | 2.26 | 3.45 | 2.77 | 2.57 |
| 5 | 3.06 | 2.57 | 2.23 | 2.26 |
| 6 | 2.20 | 2.35 | 2.46 | 2.78 |
| 7 | 2.19 | 2.15 | 2.08 | 3.14 |
| 8 | 2.51 | 2.31 | 2.41 | 2.58 |
| 9 | 2.17 | 2.55 | 2.82 | 2.40 |
| 10 | 2.37 | 2.35 | 2.59 | 2.09 |
| 11 | 2.78 | 2.75 | 2.97 | 2.66 |
| 12 | 2.66 | 3.02 | 2.84 | 2.26 |
| 13 | 2.64 | 2.49 | 2.64 | 2.79 |
| 14 | 2.07 | 2.40 | 2.77 | 2.36 |
| 15 | 2.48 | 2.80 | 2.27 | 2.57 |
| 16 | 2.24 | 2.67 | 2.78 | 2.68 |
| Max | 3.06 | 3.45 | 2.97 | 3.14 |
| Min | 2.07 | 2.15 | 2.08 | 2.09 |
| Ave | 2.45 | 2.57 | 2.55 | 2.52 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample C3 | | Sample C4 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.66 | 2.26 | 2.67 | 2.34 |
| 2 | 2.19 | 2.47 | 2.13 | 2.67 |
| 3 | 2.36 | 2.68 | 2.52 | 2.28 |
| 4 | 2.67 | 2.12 | 2.56 | 2.14 |
| 5 | 2.44 | 2.32 | 2.23 | 2.44 |
| 6 | 2.57 | 2.30 | 2.68 | 2.44 |
| 7 | 2.37 | 2.41 | 2.62 | 2.65 |
| 8 | 2.68 | 2.54 | 2.77 | 2.72 |
| 9 | 2.57 | 2.80 | 2.33 | 2.47 |
| 10 | 2.07 | 2.49 | 2.66 | 2.61 |
| 11 | 2.86 | 2.85 | 2.18 | 2.61 |
| 12 | 2.47 | 2.52 | 2.71 | 2.75 |
| 13 | 2.90 | 2.22 | 2.52 | 2.26 |
| 14 | 2.77 | 2.56 | 2.79 | 2.61 |
| 15 | 2.46 | 2.57 | 2.99 | 2.11 |
| 16 | 2.23 | 2.66 | 2.24 | 2.27 |
| Max | 2.90 | 2.85 | 2.99 | 2.75 |
| Min | 2.07 | 2.12 | 2.13 | 2.11 |
| Ave | 2.52 | 2.49 | 2.54 | 2.46 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample C5 | | Sample C6 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.49 | 2.66 | 2.62 | 2.77 |
| 2 | 2.36 | 2.46 | 2.33 | 2.73 |
| 3 | 2.36 | 2.69 | 2.50 | 2.56 |
| 4 | 2.79 | 2.36 | 2.20 | 2.08 |
| 5 | 2.06 | 2.57 | 2.82 | 2.71 |
| 6 | 2.27 | 2.48 | 2.95 | 2.82 |
| 7 | 2.54 | 2.42 | 2.35 | 2.69 |
| 8 | 2.77 | 2.32 | 2.25 | 2.78 |
| 9 | 2.87 | 2.10 | 2.45 | 2.54 |
| 10 | 2.78 | 2.41 | 2.45 | 2.64 |
| 11 | 2.57 | 2.54 | 2.65 | 2.27 |
| 12 | 2.87 | 2.60 | 2.07 | 2.67 |
| 13 | 2.56 | 2.49 | 2.68 | 2.78 |
| 14 | 2.87 | 2.35 | 2.42 | 2.87 |
| 15 | 2.70 | 2.22 | 3.25 | 2.66 |
| 16 | 2.87 | 2.32 | 2.47 | 2.59 |
| Max | 2.87 | 2.69 | 3.25 | 2.87 |
| Min | 2.06 | 2.10 | 2.07 | 2.08 |
| Ave | 2.61 | 2.44 | 2.53 | 2.64 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| C 3 | Vibration, broad-band random vibration | 3.5.10 | TC (temperature cycle)<br>0 min/20℃<br>60 min/-40℃<br>150min | No discontinuities greater than 1 microsecond. Max resistance ≤ 20mΩ | 0/6<br>Sample C1-C6 | Products meet requirements |
| C 4 | Termination resistance, Dry circuit | 3.5.9 | Subject mated contacts assembled in housing to1 20mV open circuit at 100mA max. | 20mΩ max | 0/6<br>Sample C1-C6 | Products meet requirements |

| Pin No | Sample C1 | | Sample C2 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 5.11 | 3.32 | 2.18 | 3.45 |
| 2 | 2.93 | 3.38 | 2.76 | 2.56 |
| 3 | 4.42 | 3.98 | 3.63 | 3.48 |
| 4 | 2.88 | 3.16 | 2.58 | 2.97 |
| 5 | 2.95 | 4.23 | 4.27 | 2.94 |
| 6 | 3.05 | 2.75 | 3.09 | 2.43 |
| 7 | 3.00 | 2.88 | 2.70 | 2.45 |
| 8 | 3.55 | 2.71 | 2.63 | 3.25 |
| 9 | 2.64 | 3.72 | 4.75 | 3.86 |
| 10 | 2.96 | 3.02 | 3.42 | 4.49 |
| 11 | 3.51 | 3.42 | 3.27 | 4.47 |
| 12 | 3.67 | 2.71 | 3.96 | 3.79 |
| 13 | 3.80 | 3.94 | 5.44 | 3.67 |
| 14 | 5.53 | 4.70 | 3.77 | 3.79 |
| 15 | 4.44 | 4.92 | 5.52 | 5.80 |
| 16 | 5.84 | 5.89 | 4.11 | 4.87 |
| Max | 5.84 | 5.89 | 5.52 | 5.80 |
| Min | 2.64 | 2.71 | 2.18 | 2.43 |
| Ave | 3.77 | 3.67 | 3.63 | 3.64 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample C3 | | Sample C4 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 3.55 | 3.88 | 3.24 | 5.80 |
| 2 | 3.52 | 2.87 | 5.67 | 4.06 |
| 3 | 4.38 | 3.84 | 3.56 | 3.80 |
| 4 | 2.51 | 3.68 | 5.51 | 5.61 |
| 5 | 3.03 | 2.86 | 2.53 | 5.76 |
| 6 | 2.20 | 2.51 | 4.08 | 3.85 |
| 7 | 2.51 | 2.57 | 2.74 | 4.18 |
| 8 | 2.41 | 2.30 | 3.25 | 2.95 |
| 9 | 3.37 | 2.97 | 4.10 | 3.26 |
| 10 | 2.95 | 2.63 | 5.87 | 3.99 |
| 11 | 4.45 | 5.81 | 3.80 | 3.08 |
| 12 | 3.47 | 5.57 | 3.67 | 2.92 |
| 13 | 3.58 | 5.91 | 3.74 | 3.65 |
| 14 | 2.95 | 3.59 | 3.09 | 3.19 |
| 15 | 3.55 | 3.55 | 2.03 | 5.22 |
| 16 | 3.58 | 3.50 | 4.29 | 5.17 |
| Max | 4.45 | 5.91 | 5.87 | 5.80 |
| Min | 2.20 | 2.30 | 2.03 | 2.92 |
| Ave | 3.25 | 3.63 | 3.82 | 4.16 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample C5 | | Sample C6 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.31 | 4.74 | 3.05 | 5.11 |
| 2 | 3.47 | 3.09 | 5.00 | 3.45 |
| 3 | 3.95 | 2.03 | 3.55 | 3.56 |
| 4 | 4.45 | 5.29 | 2.64 | 3.88 |
| 5 | 4.47 | 4.80 | 3.96 | 2.97 |
| 6 | 3.58 | 4.06 | 3.51 | 2.94 |
| 7 | 2.95 | 3.50 | 3.67 | 2.93 |
| 8 | 4.45 | 4.61 | 4.80 | 2.45 |
| 9 | 3.58 | 5.76 | 5.53 | 5.25 |
| 10 | 3.88 | 3.85 | 4.64 | 3.86 |
| 11 | 2.87 | 5.18 | 5.84 | 2.69 |
| 12 | 2.84 | 3.45 | 4.32 | 4.47 |
| 13 | 3.68 | 3.26 | 3.38 | 5.79 |
| 14 | 3.86 | 3.99 | 4.98 | 3.67 |
| 15 | 2.51 | 3.68 | 3.16 | 3.79 |
| 16 | 2.57 | 2.92 | 4.23 | 5.80 |
| Max | 4.47 | 5.76 | 5.84 | 5.80 |
| Min | 2.31 | 2.03 | 2.64 | 2.45 |
| Ave | 3.46 | 4.01 | 4.14 | 3.91 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| C5 | Confirmation of Product | 3.5.1 | Visually. dimensionally and functionally inspected per applicable inspection plan | Product shall be confirm the requirements of applicable product drawing and application specification | 0/6 Sample C1-C6 | Products meet requirements |
| **Group D: Termination resistance, Dry circuit/ Temperature life & Humid heat** | | | | | | |
| | Test sample | Date Code/Batch no. | | Remarks | | |
| | D1-D6 | | | | | |
| D1 | Confirmation of Product | 3.5.1 | Visually. dimensionally and functionally inspected per applicable inspection plan | Product shall be confirm the requirements of applicable product drawing and application specification | 0/6 Sample D1-D6 | Products meet requirements |
| D2 | Insulation Resistance | 3.5.8 | Voltage: 500V DC 30s | 100 MΩ min | 0/6 Sample D1-D6 | Products meet requirements R>1000 MΩ |
| D3 | Termination resistance, Dry circuit | 3.5.9 | Subject mated contacts assembled in housing to 20mV open circuit at 100mA max. | 20mΩ max | 0/6 Sample D1-D6 | Products meet requirements |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample D1 | | Sample D2 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.32 | 2.15 | 2.45 | 2.30 |
| 2 | 2.42 | 2.28 | 2.18 | 2.52 |
| 3 | 2.20 | 2.35 | 2.61 | 2.36 |
| 4 | 2.41 | 2.55 | 2.56 | 2.23 |
| 5 | 2.44 | 2.66 | 2.37 | 2.62 |
| 6 | 2.80 | 2.57 | 2.78 | 2.36 |
| 7 | 2.29 | 2.68 | 2.56 | 2.27 |
| 8 | 2.85 | 2.42 | 2.34 | 2.20 |
| 9 | 2.72 | 2.45 | 2.67 | 2.51 |
| 10 | 2.22 | 2.47 | 2.68 | 2.54 |
| 11 | 2.06 | 2.75 | 2.14 | 2.74 |
| 12 | 2.59 | 2.65 | 2.34 | 2.49 |
| 13 | 2.32 | 2.31 | 2.44 | 2.41 |
| 14 | 2.52 | 2.45 | 2.35 | 2.52 |
| 15 | 2.20 | 2.35 | 2.57 | 2.75 |
| 16 | 2.39 | 2.25 | 2.67 | 2.47 |
| Max | 2.85 | 2.75 | 2.78 | 2.75 |
| Min | 2.06 | 2.15 | 2.14 | 2.20 |
| Ave | 2.42 | 2.46 | 2.48 | 2.46 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample D3 | | Sample D4 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.47 | 2.41 | 2.46 | 2.47 |
| 2 | 2.37 | 2.31 | 2.36 | 2.25 |
| 3 | 2.51 | 2.32 | 2.79 | 2.39 |
| 4 | 2.43 | 2.36 | 2.36 | 2.06 |
| 5 | 2.30 | 2.16 | 2.27 | 2.66 |
| 6 | 2.91 | 2.24 | 2.68 | 2.29 |
| 7 | 2.66 | 2.47 | 2.22 | 2.36 |
| 8 | 2.35 | 2.23 | 2.32 | 2.27 |
| 9 | 2.42 | 2.50 | 2.10 | 2.24 |
| 10 | 2.26 | 2.55 | 2.21 | 2.77 |
| 11 | 2.87 | 2.18 | 2.55 | 2.57 |
| 12 | 2.67 | 2.50 | 2.60 | 2.27 |
| 13 | 2.56 | 2.16 | 2.49 | 2.61 |
| 14 | 2.37 | 2.41 | 2.25 | 2.17 |
| 15 | 2.47 | 2.35 | 2.42 | 2.36 |
| 16 | 2.58 | 2.21 | 2.30 | 2.57 |
| Max | 2.91 | 2.55 | 2.79 | 2.77 |
| Min | 2.26 | 2.16 | 2.10 | 2.06 |
| Ave | 2.51 | 2.33 | 2.40 | 2.39 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample D5 | | Sample D6 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.32 | 2.40 | 2.46 | 2.36 |
| 2 | 2.20 | 2.68 | 2.19 | 2.47 |
| 3 | 2.27 | 2.29 | 2.26 | 2.68 |
| 4 | 2.47 | 2.49 | 2.67 | 2.22 |
| 5 | 2.20 | 2.40 | 2.44 | 2.32 |
| 6 | 2.28 | 2.32 | 2.30 | 2.30 |
| 7 | 2.14 | 2.41 | 2.37 | 2.18 |
| 8 | 2.38 | 2.33 | 2.58 | 2.54 |
| 9 | 2.20 | 2.57 | 2.57 | 2.40 |
| 10 | 2.19 | 2.40 | 2.07 | 2.38 |
| 11 | 2.46 | 2.56 | 2.26 | 2.35 |
| 12 | 2.26 | 2.17 | 2.47 | 2.52 |
| 13 | 2.59 | 2.38 | 2.20 | 2.22 |
| 14 | 2.26 | 2.62 | 2.77 | 2.16 |
| 15 | 2.32 | 2.24 | 2.41 | 2.57 |
| 16 | 2.48 | 2.35 | 2.23 | 2.46 |
| Max | 2.59 | 2.68 | 2.77 | 2.68 |
| Min | 2.14 | 2.17 | 2.07 | 2.16 |
| Ave | 2.31 | 2.41 | 2.39 | 2.38 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| D4 | Temperature life & Humid heat | 3.5.11 | Duration: 120 h<br>Temperature: 130 °C<br><br>Duration: 10 days.<br>Temperature: 40 °C<br>Relative humidity: 95 % | There is no damage | 0/6<br>Sample D1-D6 | Products meet requirements |
| D5 | Termination resistance, Dry circuit | 3.5.9 | Subject mated contacts assembled in housing to 20mV open circuit at 100mA max.<br>Test method: 4.1 option1.<br>SPEC:EIA 364-23C | 20mΩ max | 0/6<br>Sample D1-D6 | Products meet requirements |

| Pin No | Sample D1 | | Sample D2 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.41 | 2.95 | 2.47 | 2.65 |
| 2 | 2.69 | 2.53 | 2.79 | 2.26 |
| 3 | 2.31 | 2.07 | 2.40 | 2.90 |
| 4 | 2.46 | 2.76 | 2.55 | 2.65 |
| 5 | 2.43 | 2.49 | 2.53 | 2.81 |
| 6 | 2.52 | 1.97 | 2.69 | 3.02 |
| 7 | 2.51 | 2.17 | 3.47 | 2.57 |
| 8 | 2.37 | 2.71 | 2.40 | 2.68 |
| 9 | 2.47 | 2.53 | 2.46 | 2.75 |
| 10 | 2.58 | 2.49 | 2.78 | 2.60 |
| 11 | 2.38 | 2.45 | 2.49 | 2.62 |
| 12 | 2.28 | 2.50 | 2.37 | 2.75 |
| 13 | 2.42 | 2.57 | 2.80 | 2.50 |
| 14 | 2.65 | 2.24 | 2.49 | 2.53 |
| 15 | 2.73 | 2.44 | 3.26 | 2.37 |
| 16 | 2.93 | 2.64 | 3.05 | 2.78 |
| Max | 2.93 | 2.95 | 3.47 | 3.02 |
| Min | 2.28 | 1.97 | 2.37 | 2.26 |
| Ave | 2.51 | 2.47 | 2.69 | 2.65 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample D3 | | Sample D4 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.83 | 2.61 | 2.31 | 2.64 |
| 2 | 2.56 | 2.64 | 2.47 | 2.20 |
| 3 | 2.50 | 2.35 | 2.95 | 2.14 |
| 4 | 2.46 | 2.61 | 2.55 | 2.35 |
| 5 | 3.00 | 2.67 | 2.67 | 2.80 |
| 6 | 2.40 | 2.61 | 2.50 | 3.06 |
| 7 | 2.19 | 2.51 | 2.97 | 2.50 |
| 8 | 2.66 | 2.75 | 2.45 | 2.51 |
| 9 | 2.57 | 2.66 | 2.38 | 2.86 |
| 10 | 2.27 | 2.61 | 2.56 | 2.75 |
| 11 | 2.78 | 2.36 | 2.27 | 2.18 |
| 12 | 2.56 | 2.27 | 2.54 | 2.45 |
| 13 | 2.54 | 2.49 | 2.66 | 2.26 |
| 14 | 2.67 | 2.39 | 2.76 | 2.99 |
| 15 | 2.40 | 2.59 | 2.51 | 2.58 |
| 16 | 2.44 | 2.42 | 2.57 | 2.80 |
| Max | 3.00 | 2.75 | 2.97 | 3.06 |
| Min | 2.19 | 2.27 | 2.27 | 2.14 |
| Ave | 2.55 | 2.53 | 2.57 | 2.57 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample D5 | | Sample D6 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.60 | 2.46 | 2.69 | 3.10 |
| 2 | 2.26 | 2.42 | 2.61 | 2.72 |
| 3 | 2.60 | 2.51 | 2.52 | 2.72 |
| 4 | 2.47 | 2.62 | 2.69 | 2.57 |
| 5 | 2.37 | 2.79 | 2.75 | 2.51 |
| 6 | 2.88 | 2.98 | 2.57 | 2.20 |
| 7 | 2.66 | 2.64 | 2.98 | 2.13 |
| 8 | 2.64 | 2.71 | 2.55 | 3.00 |
| 9 | 2.67 | 2.57 | 2.69 | 2.78 |
| 10 | 2.58 | 2.82 | 2.79 | 2.60 |
| 11 | 2.26 | 2.69 | 2.74 | 2.40 |
| 12 | 2.64 | 2.87 | 2.65 | 2.70 |
| 13 | 2.56 | 2.65 | 2.55 | 2.82 |
| 14 | 2.50 | 2.59 | 3.03 | 2.69 |
| 15 | 2.76 | 2.57 | 2.71 | 2.51 |
| 16 | 2.82 | 3.06 | 2.99 | 2.82 |
| Max | 2.88 | 3.06 | 3.03 | 3.10 |
| Min | 2.26 | 2.42 | 2.52 | 2.13 |
| Ave | 2.58 | 2.68 | 2.72 | 2.64 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| D6 | Insulation Resistance | 3.5.8 | Acc. IEC 512-2<br>Test 3a<br>Method to be: C<br><br>SPEC: IEC512-2 | Voltage:<br>500VDC,<br>100 MΩ min | 0/6<br>Sample D1-D6 | Products meet requirements<br>R>100 MΩ |
| D7 | Confirmation of Product | 3.5.1 | Visually. dimensionally and functionally inspected per applicable inspection plan | Product shall be confirm the requirements of applicable product drawing and application specification | 0/6<br>Sample D1-D6 | Products meet requirements |

## Group E Termination resistance, Dry circuit/ Thermal shock test 500 cycle min

| | Test sample | Date Code/Batch no. | | Remarks | | |
|---|---|---|---|---|---|---|
| | E1-E6 | | | | | |
| E1 | Confirmation of Product | 3.5.1 | Visually. dimensionally and functionally inspected per applicable inspection plan | Product shall be confirm the requirements of applicable product drawing and application specification | 0/6<br>Sample E1-E6 | Products meet requirements |
| E2 | Termination resistance, Dry circuit | 3.5.9 | Subject mated contacts assembled in housing to 20mV open circuit at 100mA max.<br>Test method: 4.1 option1.<br>SPEC:EIA 364-23C | 20mΩ max | 0/6<br>Sample E1-E6 | Products meet requirements |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample E1 | | Sample E2 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.38 | 2.51 | 2.56 | 2.27 |
| 2 | 2.20 | 2.68 | 2.56 | 2.62 |
| 3 | 2.39 | 2.45 | 2.27 | 2.39 |
| 4 | 2.20 | 2.26 | 2.40 | 2.23 |
| 5 | 2.13 | 2.51 | 2.39 | 2.42 |
| 6 | 2.40 | 2.50 | 2.17 | 2.36 |
| 7 | 2.49 | 2.27 | 2.21 | 2.32 |
| 8 | 2.41 | 2.60 | 2.29 | 2.20 |
| 9 | 2.57 | 2.48 | 2.35 | 2.31 |
| 10 | 2.47 | 2.50 | 2.29 | 2.54 |
| 11 | 2.34 | 2.32 | 2.14 | 2.34 |
| 12 | 2.55 | 2.53 | 2.34 | 2.49 |
| 13 | 2.44 | 2.39 | 2.72 | 2.31 |
| 14 | 2.15 | 2.46 | 1.97 | 2.52 |
| 15 | 2.72 | 2.54 | 2.47 | 2.72 |
| 16 | 2.62 | 2.53 | 2.31 | 2.53 |
| Max | 2.72 | 2.68 | 2.72 | 2.72 |
| Min | 2.13 | 2.26 | 1.97 | 2.20 |
| Ave | 2.40 | 2.47 | 2.34 | 2.41 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample E3 | | Sample E4 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.69 | 2.70 | 2.21 | 2.58 |
| 2 | 2.56 | 2.59 | 2.44 | 2.83 |
| 3 | 2.95 | 2.71 | 2.58 | 2.45 |
| 4 | 2.58 | 2.96 | 2.60 | 3.07 |
| 5 | 2.41 | 2.61 | 2.69 | 2.85 |
| 6 | 2.41 | 2.66 | 2.66 | 2.72 |
| 7 | 2.49 | 2.57 | 2.66 | 2.25 |
| 8 | 2.57 | 2.47 | 2.79 | 2.90 |
| 9 | 2.69 | 2.68 | 2.36 | 2.60 |
| 10 | 2.72 | 2.56 | 2.67 | 2.53 |
| 11 | 2.72 | 2.74 | 2.68 | 2.75 |
| 12 | 2.73 | 2.72 | 2.42 | 2.54 |
| 13 | 2.50 | 2.48 | 3.45 | 3.34 |
| 14 | 2.70 | 2.24 | 2.47 | 2.38 |
| 15 | 2.82 | 2.64 | 2.58 | 2.35 |
| 16 | 2.96 | 2.72 | 2.69 | 2.63 |
| Max | 2.96 | 2.96 | 3.45 | 3.34 |
| Min | 2.41 | 2.24 | 2.21 | 2.25 |
| Ave | 2.65 | 2.63 | 2.62 | 2.67 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| | | | | | | <table><tr><td rowspan="3">Pin No</td><td colspan="2">Sample E5</td><td colspan="2">Sample E6</td></tr><tr><td colspan="2">20mΩ max</td><td colspan="2">20mΩ max</td></tr><tr><td>Row1</td><td>Row2</td><td>Row1</td><td>Row2</td></tr><tr><td>1</td><td>2.34</td><td>2.78</td><td>2.60</td><td>2.62</td></tr><tr><td>2</td><td>2.98</td><td>3.24</td><td>2.50</td><td>2.68</td></tr><tr><td>3</td><td>2.82</td><td>3.32</td><td>2.55</td><td>2.49</td></tr><tr><td>4</td><td>2.67</td><td>2.54</td><td>2.70</td><td>2.69</td></tr><tr><td>5</td><td>3.37</td><td>2.70</td><td>2.12</td><td>2.50</td></tr><tr><td>6</td><td>2.61</td><td>2.64</td><td>2.27</td><td>2.52</td></tr><tr><td>7</td><td>2.23</td><td>2.78</td><td>2.42</td><td>2.41</td></tr><tr><td>8</td><td>2.48</td><td>2.50</td><td>2.52</td><td>2.37</td></tr><tr><td>9</td><td>2.90</td><td>2.79</td><td>2.74</td><td>2.63</td></tr><tr><td>10</td><td>2.66</td><td>2.84</td><td>2.20</td><td>2.40</td></tr><tr><td>11</td><td>2.35</td><td>3.03</td><td>2.46</td><td>2.46</td></tr><tr><td>12</td><td>2.62</td><td>2.77</td><td>2.48</td><td>2.37</td></tr><tr><td>13</td><td>2.26</td><td>2.87</td><td>2.30</td><td>2.28</td></tr><tr><td>14</td><td>2.77</td><td>2.71</td><td>2.50</td><td>2.82</td></tr><tr><td>15</td><td>2.67</td><td>2.70</td><td>2.43</td><td>2.24</td></tr><tr><td>16</td><td>2.56</td><td>2.82</td><td>2.39</td><td>2.25</td></tr><tr><td>Max</td><td>3.37</td><td>3.32</td><td>2.74</td><td>2.82</td></tr><tr><td>Min</td><td>2.23</td><td>2.50</td><td>2.12</td><td>2.24</td></tr><tr><td>Ave</td><td>2.64</td><td>2.81</td><td>2.45</td><td>2.48</td></tr></table> |
| E3 | Thermal shock test | 3.5.12 | Subject mated connectors to 5 cycles between -40 and 105℃. Time: 0.5h, Test method: A, Test condition VIII | There is no damage after thermal shock test. | 0/6<br>Sample E1-E6 | Products meet requirements |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| E4 | Termination resistance, Dry circuit | 3.5.9 | Subject mated contacts assembled in housing to 20mV open circuit at 100mA max. | 20mΩ max | 0/6<br>Sample E1-E6 | Products meet requirements |

| Pin No | Sample E1 | | Sample E2 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.65 | 2.73 | 2.85 | 2.62 |
| 2 | 2.73 | 2.62 | 2.90 | 2.74 |
| 3 | 2.56 | 2.71 | 2.15 | 2.43 |
| 4 | 2.37 | 2.33 | 2.39 | 2.27 |
| 5 | 2.48 | 2.71 | 2.27 | 2.36 |
| 6 | 2.40 | 2.90 | 2.37 | 2.29 |
| 7 | 2.32 | 2.61 | 2.32 | 2.26 |
| 8 | 2.53 | 2.50 | 2.28 | 2.29 |
| 9 | 2.63 | 2.54 | 2.64 | 2.53 |
| 10 | 2.33 | 2.47 | 2.23 | 2.44 |
| 11 | 2.36 | 2.57 | 2.44 | 2.20 |
| 12 | 2.34 | 2.46 | 2.23 | 2.19 |
| 13 | 2.43 | 2.30 | 2.44 | 2.54 |
| 14 | 2.34 | 2.76 | 2.52 | 2.77 |
| 15 | 3.13 | 3.61 | 2.36 | 2.62 |
| 16 | 3.71 | 2.90 | 2.48 | 3.00 |
| Max | 3.71 | 3.61 | 2.90 | 3.00 |
| Min | 2.32 | 2.30 | 2.15 | 2.19 |
| Ave | 2.58 | 2.67 | 2.43 | 2.47 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|

| Pin No | Sample E3 | | Sample E4 | |
|---|---|---|---|---|
| | 20mΩ max | | 20mΩ max | |
| | Row1 | Row2 | Row1 | Row2 |
| 1 | 2.76 | 3.06 | 2.76 | 3.18 |
| 2 | 2.87 | 2.63 | 2.69 | 2.61 |
| 3 | 2.56 | 2.70 | 2.42 | 2.72 |
| 4 | 2.61 | 3.12 | 2.69 | 3.57 |
| 5 | 2.68 | 2.64 | 2.85 | 3.67 |
| 6 | 2.33 | 2.70 | 2.67 | 2.14 |
| 7 | 2.89 | 2.65 | 2.98 | 2.13 |
| 8 | 2.49 | 2.46 | 2.70 | 4.00 |
| 9 | 2.67 | 2.48 | 2.72 | 2.78 |
| 10 | 2.37 | 2.58 | 2.79 | 2.60 |
| 11 | 2.69 | 2.71 | 2.74 | 2.50 |
| 12 | 2.76 | 2.89 | 2.75 | 3.50 |
| 13 | 2.57 | 2.84 | 4.46 | 3.82 |
| 14 | 2.85 | 2.68 | 4.03 | 2.69 |
| 15 | 3.93 | 3.36 | 2.60 | 3.23 |
| 16 | 3.10 | 3.37 | 3.00 | 2.82 |
| Max | 3.93 | 3.37 | 4.46 | 4.00 |
| Min | 2.33 | 2.46 | 2.42 | 2.13 |
| Ave | 2.76 | 2.80 | 2.93 | 3.00 |

| No. | Test Item | Test Spec. no. | Description of test method | Requirements | Defects / Total | Results / Remarks |
|---|---|---|---|---|---|---|
| | | | | | | <table><tr><td rowspan="3">Pin No</td><td colspan="2">Sample E5</td><td colspan="2">Sample E6</td></tr><tr><td colspan="2">20mΩ max</td><td colspan="2">20mΩ max</td></tr><tr><td>Row1</td><td>Row2</td><td>Row1</td><td>Row2</td></tr><tr><td>1</td><td>2.88</td><td>3.03</td><td>2.82</td><td>2.86</td></tr><tr><td>2</td><td>2.91</td><td>3.82</td><td>2.74</td><td>2.71</td></tr><tr><td>3</td><td>2.92</td><td>2.99</td><td>2.46</td><td>2.29</td></tr><tr><td>4</td><td>2.45</td><td>4.81</td><td>2.69</td><td>2.52</td></tr><tr><td>5</td><td>3.10</td><td>2.72</td><td>2.32</td><td>2.45</td></tr><tr><td>6</td><td>2.50</td><td>3.10</td><td>2.77</td><td>2.53</td></tr><tr><td>7</td><td>2.51</td><td>4.06</td><td>2.73</td><td>2.38</td></tr><tr><td>8</td><td>2.52</td><td>3.05</td><td>2.84</td><td>2.28</td></tr><tr><td>9</td><td>2.76</td><td>3.05</td><td>2.22</td><td>2.61</td></tr><tr><td>10</td><td>2.66</td><td>3.18</td><td>2.40</td><td>2.66</td></tr><tr><td>11</td><td>2.82</td><td>3.17</td><td>2.75</td><td>2.46</td></tr><tr><td>12</td><td>2.67</td><td>2.90</td><td>2.91</td><td>2.54</td></tr><tr><td>13</td><td>2.72</td><td>3.64</td><td>2.70</td><td>3.24</td></tr><tr><td>14</td><td>2.49</td><td>2.86</td><td>3.50</td><td>2.93</td></tr><tr><td>15</td><td>3.59</td><td>3.89</td><td>3.41</td><td>3.83</td></tr><tr><td>16</td><td>2.83</td><td>3.85</td><td>3.46</td><td>2.89</td></tr><tr><td>Max</td><td>3.59</td><td>4.81</td><td>3.50</td><td>3.83</td></tr><tr><td>Min</td><td>2.45</td><td>2.72</td><td>2.22</td><td>2.28</td></tr><tr><td>Ave</td><td>2.77</td><td>3.38</td><td>2.79</td><td>2.70</td></tr></table> |
| E5 | Confirmation of Product | 3.5.1 | Visually. dimensionally and functionally inspected per applicable inspection plan | Product shall be confirm the requirements of applicable product drawing and application specification | 0/6<br>Sample A1-A6 | Products meet requirements |