

- 1. Introduction
- 1.1 Testing was performed on the DDR4 DIMM SOCKET TH 288P to determine if it meets the requirement of Product Specification ,108-115067 Rev A
- 1.2 Scope

This report covers the electrical, mechanical and environmental performance requirements of the DDR4 DIMM SOCKET TH 288P. The qualification testing for standard type was performed between Nov 6, 2013 and Mar 3, 2014.

1.3 Conclusion

DDR4 DIMM SOCKET TH 288P Type meets the electrical, mechanical and environmental performance requirements of Product Specification, 108-115067 Rev A

1.4 Test Samples

Samples were taken randomly from current production. The following samples were used.

| Description |
|--|
| DDR4 DIMM SOCKET 0.85mm Pitch TH 288Pos. 30u" Au version |
| Did all test group(MFG field life 7 years) |
| DDR4 DIMM SOCKET 0.85mm Pitch TH 288Pos. 15u" Au version |
| Did test group 4 (MFG field life 5 years) |
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2. Test Contents

| NO. | Test Items | Requirements | Judgment | | | | | | |
|-----|--|---|------------|--|--|--|--|--|--|
| | | | | | | | | | |
| 2.1 | Examination of Product | Visual, inspection No physical damage. | Acceptable | | | | | | |
| | Electrical Requirements | | | | | | | | |
| 2.2 | Termination Resistance (Low Level) | Standard Type: $10m\Omega$ Max. (Initial) $\Delta R = 10m\Omega Max.$ (Final) | Acceptable | | | | | | |
| 2.3 | Insulation Resistance | Impressed voltage 500V DC for 1 minute. Test between adjacent circuits of unmated connector. 1000MΩ Min. | Acceptable | | | | | | |
| 2.4 | Dielectric withstanding Voltage | 500 V AC for 1 minute. Test between adjacent circuits of unmated connector. No creeping discharge nor flashover shall occur. Current leakage: 0.5mA Max. | Acceptable | | | | | | |
| 2.5 | Current carrying capability / Temperature Rising | 30°C Max. (Only 6 contacts) Load with 0.5A | Acceptable | | | | | | |



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| | | Mechanical Requirements | |
|------|-------------------------------|--|------------|
| 2.6 | Reseating | No physical damege after 3 times. | Acceptable |
| 2.7 | Solderability, lead free | 95% coverage. No physical damage; contact gap within manufacturer's tolerance. JESD22-B-102, Condition C, Method 1. Thirty second exposure at 190°C oven. Processing criteria: solder 260±5°C for 5 seconds. | Acceptable |
| 2.8 | Vibration (Random) | Vibration Frequency: 5~500 Hz / 1 minute Amplitude:1.52mm Vibration Direction: In each of 3 mutually pependicular Planes Duration: 2 hours 100mA applied. No electrical discontinuity greater than 1µsec shall occur. | Acceptable |
| 2.9 | Mechanical shock | Module thickness:1.40 mm Module weight 65 ± 5 g Profile: Trapezoidal shock of 50 g \pm 10%. Velocity change: 170 inches/sec \pm 10%. Quantity: Three drops in each of 6 directions are applied to each of the three samples. 100mA applied. No electrical discontinuity greater than 1 μ sec shall occur. | Acceptable |
| 2.10 | Durability | Mate and unmate specimens with 1.50 mm thick steel gauge for 25 cycles at a maximum rate of 500 cycles per hour. | Acceptable |
| 2.11 | Mating force | Measure force necessary to mate specimens with a 1.50 mm steel gauge at a maximum rate of 5 mm per minute 106.8 N maximum. | Acceptable |
| 2.12 | Unmating force (per pin pair) | Axial Tension/Compression machine such as an Instron Tensile Tester. Rate: 12.7 mm/min GS-005 Gauge 14 gf min. | Acceptable |



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| 2.13 | Contact backout wipe | Fully seat daisy chain module. Pull module upward until stopped by latches while monitoring for discontinuities. No discontinuities of 1 microsecond or longer duration | Acceptable |
|------|--|---|------------|
| 2.14 | Latch opening force | Measure force necessary to unmate specimens from a 1.50 mm steel gage at a maximum rate of 5 mm per minute. 32.4 N maximum per latch. | Acceptable |
| 2.15 | Contact retention | Apply specified load to contact tail and hold for 6 seconds. 3 N minimum per pin. No movement of contact more than 0.38 mm | Acceptable |
| 2.16 | Fork lock retention (where applicable) | Apply specified load to fork lock and hold for 6 seconds. 13.3 N minimum per fork lock. Maximum movement of 0.38 mm | Acceptable |
| 2.17 | Connector insertion force into PCB | Press socket onto board at a rate of 5 mm per minute. 75 N maximum. | Acceptable |
| | | Environmental Requirements | |
| 2.18 | Thermal Shock | -55 and 85°C, perform 5 cycles in mated condition. | Acceptable |
| 2.19 | Cyclic Temperature & Humidity | Subject mated and mounted specimens to 10 cycles between 25°C at 80% RH and 65°C at 50% RH. Ramp times shall be 0.5 hour with 1 hour dwell time. | Acceptable |
| 2.20 | Thermal cycling | Subject mated and mounted specimens to 500 cycles between $15\pm3^{\circ}$ C and $85\pm3^{\circ}$ C as measured on the specimen). Ramps times shall be a minimum of 2°C per minute. Dwell times shall ensure that the contacts reach the temperature extreme (5 minutes minimum). Humidity not controlled. | Acceptable |
| 2.21 | Temperature Life | Subject mated and mounted specimens to 105°C for 240 hours. | Acceptable |



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| 2.22 | Mixed flowing Gas | EIA-364-65, Class IIA. 30u" Au version (field life 7 years): Five specimens unmated for 160 hours, mated for 80 hours. Five specimens mated for 240 hours. Store module cards at laboratory ambient during the unmated portion of the exposure. 15u" Au version (field life 5 years): Five specimens unmated for 112 hours, mated for 56 hours. Five specimens mated for 168 hours. Store module cards at laboratory ambient during the unmated portion of the exposure. | Acceptable |
|------|---------------------|--|------------|
| 2.23 | Thermal Disturbance | Subject mated and mounted specimens to 10 cycles between $15\pm3^{\circ}$ C and $85\pm3^{\circ}$ C as measured on the part. Ramps shall be a minimum of 2°C per minute. Dwell times shall ensure that the contacts reach the temperature extreme (5 minutes minimum). Humidity not controlled. | Acceptable |

Fig. 2 (End)



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3. Product Qualification and Requalification Test Sequence

| | Test Group (a) | | | | | | | | | | | |
|------------------------------------|-------------------|----------|------------|------------|---|---|---|---|---|---------|--|--|
| Test or Examination | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| | Test Sequence (b) | | | | | | | | | | | |
| Initial examination of product | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Low level contact resistance | 2,6,8 | 2,7,9,13 | 2,4,6,8,10 | 2,5,7,9,11 | | | | | | 2,5,7,9 | | |
| Insulation resistance | | 3,10 | | | | | | | | | | |
| Withstanding voltage | | 4,11 | | | | | | | | | | |
| Current carrying capacity | | | | | | | | | 2 | | | |
| Reseating | 7 | 12 | | 10 | | | | | | 8 | | |
| Solderability | | | | | | 2 | | | | | | |
| Vibration, random | | | 7 | | | | | | | | | |
| Mechanical shock | | | 9 | | | | | | | | | |
| Durability | 4(c) | 5(c) | 3(c) | 3(c) | | | | | | 3(c) | | |
| Mating force | | | | | 2 | | | | | | | |
| Unmating force per pin pair | | | | | | | | 3 | | | | |
| Latch opening force | | | | | 3 | | | | | | | |
| Contact retention | | | | | | | 3 | | | | | |
| Fork lock retention | | | | | | | 2 | | | | | |
| Connector insertion force into PCB | | | | | | | | 2 | | | | |
| Contact backout wipe | 3 | | | | | | | | | | | |
| Thermal shock | | 6 | | | | | | | | | | |
| Cyclic temperature & humidity | | 8 | | | | | | | | | | |
| Thermal cycling | | | | | | | | | | 6 | | |
| Temperature life | 5 | | 5(d) | 4(d) | | | | | | 4(d) | | |
| Mixed flowing gas | | | | 6 | | | | | | | | |
| Thermal disturbance | | | | 8 | | | | | | | | |
| Final examination of product | 9 | 14 | 11 | 12 | 4 | 3 | 4 | 4 | 3 | 10 | | |



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NOTE

- (a) See paragraph 4.1.A.
- (b) Numbers indicate sequence in which tests are performed.
- (c) Durability preconditioning with only 5 cycles.
- (d) Temperature life preconditioning, 120 hours duration.
- (e) Measure contact gaps across mating interface.

Figure 3



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4. TEST RESULT

4.1 TEST RESULT For Standard Type

| Condition | Measure | N | Unit | | Results | | Requirement | Judgment | | | | |
|----------------------------|---------------------------|------|------|------------------------|----------------|---------|---------------------|------------|--|--|--|--|
| Condition | Item | IN | Unit | MAX. | MIN. | AVE. | nequilement | ouugment | | | | |
| | Test Group 1 | | | | | | | | | | | |
| Initial | Appearance | 5 | - | No | o abnormaliti | es | No abnormalities | Acceptable | | | | |
| Initiai | Termination Resistance | 1440 | mΩ | 9.90mΩ | 6.82mΩ | 8.66mΩ | 10mΩMAX. | Acceptable | | | | |
| After Durability | Appearance | 5 | - | No abnormalities | | | No abnormalities | Acceptable | | | | |
| After Contact backout wipe | Circuit Continuity | 5 | μS | Ν | lo discontinui | ty | 1µsec. MIN. | Acceptable | | | | |
| After Temperature | Termination Resistance | 1440 | mΩ | 19.27mΩ 7.31mΩ 11.21mΩ | | - | - | | | | | |
| life | ΔR | 1440 | mΩ | 9.90mΩ | -2.44mΩ | 2.56mΩ | 10mΩMAX. | Acceptable | | | | |
| After | Termination Resistance | 1440 | mΩ | 19.35mΩ | 6.98mΩ | 10.69mΩ | - | - | | | | |
| Reseating | ΔR | 1440 | mΩ | 9.85mΩ | -1.38mΩ | 2.03mΩ | 10mΩMAX. | Acceptable | | | | |
| Final | Appearance | 5 | - | No | o abnormaliti | es | No abnormalities | Acceptable | | | | |



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| Condition | Measure Item | N | Unit | MAX. | Results MIN. | AVE. | Requirement | Judgment | | | |
|---------------------------|---------------------------|------|------|---------------------------|--------------------------|--------|---------------------|------------|--|--|--|
| | | | | W0 0 C. | | ///L. | | | | | |
| Test Group 2 | | | | | | | | | | | |
| | Appearance | 5 | - | No | o abnormaliti | es | No abnormalities | Acceptable | | | |
| Initial | Termination Resistance | 1440 | mΩ | 9.92mΩ | 6.29mΩ | 8.95mΩ | 10mΩMAX. | Acceptable | | | |
| mua | Insulation resistance | 5 | - | 1.1 | 4 x 10 ¹² Ω N | IIN. | 1000MΩMIN | Acceptable | | | |
| | Withstanding voltage | 5 | - | No creepin flashover o | g discharge ccurred. | nor | No abnormalities | Acceptable | | | |
| After Durability | Appearance | 5 | - | No | o abnormaliti | es | No abnormalities | Acceptable | | | |
| After Thermal | Termination Resistance | 1440 | mΩ | 18.00mΩ | 6.06mΩ | 9.37mΩ | - | - | | | |
| shock | ΔR | 1440 | mΩ | 9.18mΩ | -3.71mΩ | 0.42mΩ | 10mΩMAX. | Acceptable | | | |
| | Termination Resistance | 1440 | mΩ | 19.43mΩ | 6.02mΩ 9.80mΩ | | - | - | | | |
| After Cyclic | ΔR | 1440 | mΩ | 9.90mΩ | -3.41mΩ | 0.85mΩ | 10mΩMAX. | Acceptable | | | |
| temperature & humidity | Insulation resistance | 5 | - | 1 | x 10 ¹² Ω MII | Ν. | 1000MΩMIN | Acceptable | | | |
| | Withstanding voltage | 5 | - | No creepin flashover o | g discharge ccurred. | nor | No abnormalities | Acceptable | | | |
| After | Termination Resistance | 1440 | mΩ | 18.99mΩ | 6.07mΩ | 9.95mΩ | - | - | | | |
| Reseating | ΔR | 1440 | mΩ | 9.28mΩ | -3.65mΩ | 1.00mΩ | 10mΩMAX. | Acceptable | | | |
| Final | Appearance | 5 | - | No | o abnormaliti | es | No abnormalities | Acceptable | | | |



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| Qanditian | | N | ال الم | | Results | | Desuiversent | Judgment | | | | |
|--------------------------------------|---------------------------|------|--------|---------|----------------|---------|---------------------|------------|--|--|--|--|
| Condition | Measure Item | IN | Unit | MAX. | MIN. | AVE. | Requirement | oddymeni | | | | |
| | Test Group 3 | | | | | | | | | | | |
| Initial | Appearance | 5 | - | No | o abnormaliti | es | No abnormalities | Acceptable | | | | |
| mina | Termination Resistance | 1440 | mΩ | 9.87mΩ | 6.02mΩ | 8.48mΩ | 10mΩMAX. | Acceptable | | | | |
| After | Termination Resistance | 1440 | mΩ | 16.68mΩ | 3.93mΩ | 8.37mΩ | - | - | | | | |
| Durability | ΔR | 1440 | mΩ | 7.56mΩ | -3.93mΩ | -0.10mΩ | 10mΩMAX. | Acceptable | | | | |
| After Temperatur | Termination Resistance | 1440 | mΩ | 17.75mΩ | 5.81 mΩ | 10.94mΩ | - | - | | | | |
| e life | ΔR | 1440 | mΩ | 9.65mΩ | -3.52mΩ | 2.46mΩ | 10mΩMAX. | Acceptable | | | | |
| Vibration (Random) During test | Circuit Continuity | 5 | μS | N | lo discontinui | ty | 1µsec. MIN. | Acceptable | | | | |
| After | Termination Resistance | 1440 | mΩ | 13.99mΩ | 7.00mΩ | 10.41mΩ | - | - | | | | |
| Vibration | ΔR | 1440 | mΩ | 7.86mΩ | -2.71mΩ | 1.93mΩ | 10mΩMAX. | Acceptable | | | | |
| Mechanical Shock During test | Circuit Continuity | 5 | μS | N | lo discontinui | ty | 1µsec. MIN. | Acceptable | | | | |
| After Mechanical | Termination Resistance | 1440 | mΩ | 13.99mΩ | 7.00mΩ | 10.44mΩ | - | - | | | | |
| Shock | ΔR | 1440 | mΩ | 7.78mΩ | -2.65mΩ | 1.96mΩ | 10mΩMAX. | Acceptable | | | | |
| Final | Appearance | 5 | - | No | o abnormaliti | es | Final | Appearance | | | | |



Qualification Test Report

DDR4 DIMM 0.85mm Pitch THROUGH HOLE TYPE 288Pos.

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| Condition | Measure | N | Unit | | Results | | Doquiromont | ludamont | | | | |
|----------------------|---|------|----------------|---------|---------------|-------------|---------------------|------------|--|--|--|--|
| Condition | Item | IN | MAX. MIN. AVE. | | AVE. | Requirement | Judgment | | | | | |
| | Test Group 4 (P/N 2-2199154-4 30u" Au version, field life 7 years) | | | | | | | | | | | |
| Initial | Appearance | 10 | - | No | o abnormaliti | es | No abnormalities | Acceptable | | | | |
| Initia | Termination Resistance | 2880 | mΩ | 9.98mΩ | 5.51mΩ | 8.46mΩ | 10mΩMAX. | Acceptable | | | | |
| After Durability | Appearance | 10 | - | No | o abnormaliti | es | No abnormalities | Acceptable | | | | |
| After Temperature | Termination Resistance | 2880 | mΩ | 19.41mΩ | 6.84mΩ | 11.72mΩ | - | - | | | | |
| life | ΔR | 2880 | mΩ | 9.91mΩ | -1.76mΩ | 3.26mΩ | 10mΩMAX. | Acceptable | | | | |
| After MFG | Termination Resistance | 2880 | mΩ | 19.51mΩ | 7.34mΩ | 11.49mΩ | - | - | | | | |
| | ΔR | 2880 | mΩ | 9.94mΩ | -1.19mΩ | 3.03mΩ | 10mΩMAX. | Acceptable | | | | |
| After Thermal | Termination Resistance | 2880 | mΩ | 19.62mΩ | 7.26mΩ | 11.58mΩ | - | - | | | | |
| Disturbance | ΔR | 2880 | mΩ | 9.96mΩ | -1.91mΩ | 3.12mΩ | 10mΩMAX. | Acceptable | | | | |
| After | Termination Resistance | 2880 | mΩ | 19.39mΩ | 4.29mΩ | 11.17mΩ | - | - | | | | |
| Reseating | ΔR | 2880 | mΩ | 9.97mΩ | -3.12mΩ | 2.71mΩ | 10mΩMAX. | Acceptable | | | | |
| Final | Appearance | 10 | - | No | o abnormaliti | es | Final | Appearance | | | | |

Fig. 4 (to be continued)



Qualification Test Report

DDR4 DIMM 0.85mm Pitch THROUGH HOLE TYPE 288Pos.

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| O a va aliti a va | Measure | N | 11 | | Results | | Deminerat | lu demo e et | | | | |
|----------------------|---|------|------|---------|---------------|---------|---------------------|--------------|--|--|--|--|
| Condition | Item | N | Unit | MAX. | MIN. | AVE. | Requirement | Judgment | | | | |
| | Test Group 4 (P/N 2-2199154-3 15u" Au version, field life 5 years) | | | | | | | | | | | |
| Initial | Appearance | 10 | - | No | o abnormaliti | es | No abnormalities | Acceptable | | | | |
| milla | Termination Resistance | 2880 | mΩ | 9.97mΩ | 5.08mΩ | 7.63mΩ | 10mΩMAX. | Acceptable | | | | |
| After Durability | Appearance | 10 | - | No | o abnormaliti | es | No abnormalities | Acceptable | | | | |
| After Temperature | Termination Resistance | 2880 | mΩ | 19.69mΩ | 5.51mΩ | 10.88mΩ | - | - | | | | |
| life | ΔR | 2880 | mΩ | 9.98mΩ | -2.07mΩ | 3.26mΩ | 10mΩMAX. | Acceptable | | | | |
| After MFG | Termination Resistance | 2880 | mΩ | 16.51mΩ | 5.00mΩ | 8.68mΩ | - | - | | | | |
| | ΔR | 2880 | mΩ | 7.98mΩ | -2.80mΩ | 1.06mΩ | 10mΩMAX. | Acceptable | | | | |
| After Thermal | Termination Resistance | 2880 | mΩ | 17.30mΩ | 5.57mΩ | 8.81mΩ | - | - | | | | |
| Disturbance | ΔR | 2880 | mΩ | 8.80mΩ | -2.35mΩ | 1.19mΩ | 10mΩMAX. | Acceptable | | | | |
| After | Termination Resistance | 2880 | mΩ | 17.87mΩ | 4.81mΩ | 8.92mΩ | - | - | | | | |
| Reseating | ΔR | 2880 | mΩ | 9.29mΩ | -2.38mΩ | 1.30mΩ | 10mΩMAX. | Acceptable | | | | |
| Final | Appearance | 10 | - | No | o abnormaliti | es | Final | Appearance | | | | |



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| Condition | Measure | N | Unit | | Results | | Requirement | Judgment | |
|---------------------|---------------------------|----|------|-------------------|------------------|--------|-------------|------------|--|
| Condition | ltem | IN | Unit | MAX. | MIN. | AVE. | nequirement | Judyment | |
| | | | | | | | | | |
| | | | - | Test Gro | Sub S | | | | |
| Initial | Appearance | 5 | - | No | No abnormalities | | | Acceptable | |
| Mating force | Mating force | 5 | N | 99.25N | 94.06N | 96.29N | 106.8N MAX. | Acceptable | |
| Latch opening force | Latch opening force | 5 | N | 7.34N 6.31N 6.84N | | | 32.4N MAX. | Acceptable | |
| Final | Appearance | 5 | - | No | o abnormaliti | es | Final | Appearance | |

| Test Group 6 | | | | | | | | | |
|---------------|--|---|---|---|----------|------------|--|--|--|
| Initial | I Appearance 5 - No abnormalities No abnormalities Acc | | | | | | | | |
| Solderability | Appearance | 5 | - | More than 95% of tested area was covered with fresh, wet solder | 95% MIN. | Acceptable | | | |
| Final | Appearance | 5 | - | No abnormalities | Final | Appearance | | | |

| Test Group 7 | | | | | | | | | | |
|---------------------|---------------------|---|---|------------------|-----------|------------|--|--|--|--|
| Initial | Appearance | Appearance5-No abnormalitiesNo abnormalities | | | | | | | | |
| Fork lock retention | Fork lock retention | 5 | N | 13.3N MIN | 13.3N MIN | Acceptable | | | | |
| Contact retention | Contact retention | 5 | N | 3N MIN | 3N MIN | Acceptable | | | | |
| Final | Appearance | 5 | - | No abnormalities | Final | Appearance | | | | |



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| Condition | Measure | N | Unit | | Results | | Requirement | Judgment | | |
|---|---|---|------|------------------|---------|---------|---------------------|------------|--|--|
| Condition | Item | | | MAX. | MIN. | AVE. | riequirement | | | |
| | | | | | | | | | | |
| Test Group 8 | | | | | | | | | | |
| Initial | Appearance | 5 | - | No abnormalities | | | No abnormalities | Acceptable | | |
| Connector insertion force into PCB | Connector insertion force into PCB | 5 | N | 48.49N | 40.28N | 45.43N | 75N MAX. | Acceptable | | |
| Unmating force per pin pair | Unmating force per pin pair | 5 | g | 21.48 g | 17.77 g | 19.86 g | 14g MIN. | Acceptable | | |
| Final | Appearance | 5 | - | No abnormalities | | | Final | Appearance | | |

| Test Group 9 | | | | | | | | | | |
|----------------------------------|----------------------------------|---|----|------------------|--------|--------|---------------------|------------|--|--|
| Initial | Appearance | 5 | - | No abnormalities | | | No abnormalities | Acceptable | | |
| Current carrying capacity. | Current carrying capacity. | 5 | °C | 1.98°C | 1.58°C | 1.75°C | 30°C MAX. | Acceptable | | |
| Final | Appearance | 5 | - | No abnormalities | | | Final | Appearance | | |



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| Condition | Measure Item | N | Unit | Results | | | Desuiversent | lu el energia en la | | |
|----------------------|---------------------------|------|------|------------------|---------|---------|---------------------|---------------------|--|--|
| | | | | MAX. | MIN. | AVE. | Requirement | Judgment | | |
| Test Group 10 | | | | | | | | | | |
| | Appearance | 5 | - | No abnormalities | | | No abnormalities | Acceptable | | |
| Initial | Termination Resistance | 1440 | mΩ | 9.99mΩ | 6.02mΩ | 8.10mΩ | 10mΩMAX. | Acceptable | | |
| After Durability | Appearance | 5 | - | No abnormalities | | | No abnormalities | Acceptable | | |
| After Temperature | Termination Resistance | 1440 | mΩ | 19.72mΩ | 6.30mΩ | 11.08mΩ | - | - | | |
| life | ΔR | 1440 | mΩ | 9.89mΩ | -1.44mΩ | 2.98mΩ | 10mΩMAX. | Acceptable | | |
| After Thermal | Termination Resistance | 1440 | mΩ | 19.12mΩ | 6.03mΩ | 10.08mΩ | - | - | | |
| cycling | ΔR | 1440 | mΩ | 9.78mΩ | -2.00mΩ | 1.98mΩ | 10mΩMAX. | Acceptable | | |
| After Reseating | Termination Resistance | 1440 | mΩ | 18.09mΩ | 5.22mΩ | 10.10mΩ | - | - | | |
| | ΔR | 1440 | mΩ | 9.43mΩ | -3.12mΩ | 1.99mΩ | 10mΩMAX. | Acceptable | | |
| Final | Appearance | 5 | - | No abnormalities | | | Final | Appearance | | |

Fig. 4 (END)