# SPECIFICATION FOR APPROVAL

CUSTOMER:

CUSTOMER PART NO:

PART NO: **201-10194-01** REVISION: **PSA**

DESCRIPTION: RJ45,1*1,Tab-Up,Mid-Plane W/o LED W/o Shield,10/100M

| | MANUFACTURE SIGNATURE | CUSTOMER SIGNATURE |
|---|---|---|
| APPROVED BY: | Hill | |
| DATE: | 2020.06.30 | |

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Electrical/Mechanica/ Environmental specification Of RJ Conn.

| NO | Test Items | Requirement | Procedures |
|---|---|---|---|
| 1 | Visual &Mechanical Examination | Mechanical Structure & Cosmetics Specs and Drawing. | Specimens shall be investigated by 10x (or higher)microscope. |
| | | **ELECTRICAL** | |
| 2 | Contact Resistance. | 30 mΩ Max .initial.<br>50 mΩ Max. final. | Subject mated contacts assembled in housing to 20mV maximum open circuit at 100mA maximum. EIA 364-23 |
| 3 | Hi-pot | No breakdown;<br>current leakage < 1mA | AC 1500V,1mA,60S,Between contacts to shield and Solider terminal<br>EIA 364-20 |
| 4 | Insulation Resistance | 1000 MΩ min initial<br>500 MΩ min final | After 500 VDC for 1 minute, measure the insulation resistance between the adjacent contacts of mated and unmated connector assemblies. EIA 364-21 |
| | | MECHANICAL | |
| 5 | Mating and Un-mating Forces | RJ45:<br>Insertion Force:22N max<br>Unlatched Withdrawal Force:22N max | Measure force necessary to mate and un-mate connectors using the free floating fixtures at rate of 25mm/min.<br>EIA-364-13C |
| 6 | Durability | Visual and electrical No damage | The sample should be mounted in the tester and fully mated and unmated at the rate of 25mm/min.<br>RJ45: 750cycles<br>EIA-364-09C |

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|---|---|---|---|
| **7** | Vibration | No electrical discontinuity greater than 1μsecond | The electrical load condition shall be 100mA maximum for all contacts. Subject to a simple harmonic motion having amplitude of 0.76mm (1.52mm maximum total excursion) in frequency which being varied uniformly between the approximate limits of 10 and 55 Hz. The entire frequency range, from 10 to 55 Hz and return to 10 Hz, shall be traversed in approximately 1 minute. This motion shall be applied for 2 hours in each of three mutually perpendicular directions.<br>EIA-364-28 |
| **8** | Physical Shock | No electrical discontinuity greater than 1μsecond | Subject mated connectors to 50 G's (peak value) half-sine shock pulses of 11 milliseconds duration. Three shocks in each direction shall be applied along the three mutually perpendicular axes of the test specimen (18 shocks). The electrical load condition shall be 100mA maximum for all contacts.<br>EIA-364-27B |
| **ENVIRONMENTAL** | | | |
| **9** | Humidity test | Visual and electrical No damage | Specimen shall be stored in a chamber of temperature 40±2℃ at relative humidity 90~95% for 96±4 hours.<br>EIA-364-31B, |

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|---|---|---|---|
| **10** | Thermal Shock | Visual and electrical No damage | Specimen shall be subjected to -40±3℃ for 30 minutes. Then subjected to 85±2℃ for 30 minutes (transition times is 1 minute maximum.) as one cycle. Duration: five cycles EIA-364-32C |
| **11** | Solder ability | Solder coverage: 95% MINIMUM | Terminals shall be immersed in flux for about 5 sec then in molten solder at temperature of 250±5℃ (Solder: Sn-Cu0.7) EIA 364-52 |
| **12** | Solder Heat Resistance | Visual and electrical No damage | Terminals shall be immersed in Sn-Cu 0.7 solder of 260±5℃ to depth within 1.5mm of the coil body for 10±5 sec. |
| **13** | Salt Mist | No visual damage | 1.Temperature 35℃<br>2.PH:6.5~7.2<br>3.Salti-Sohuiton:5%<br>4.Condition B 12 hours<br>EIA 364-26 |