



SPECIFICATION AND PERFORMANCE

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|-----------------------------|
| SERIES: 115H-BA00 Series |
| FILE: 115H-BA00_spec |
| DATE: 2013/08/05 |

Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of 115H-BA00.

Performance and Descriptions:

The product is designed to meet the electrical, mechanical and environmental performance requirements specification. Unless otherwise specified, all tests are performed at ambient environmental conditions.

RoHS:

All material in according with the RoHS environment related substances list controlled.

MATERIAL AND FINISH

| | | |
|----------------|--|--|
| INSULATOR | Material | Housing: LCP UL94 V-0 Black |
| CONTACT | Material | Contact: Phosphor Bronze C5210 |
| | Plating | Contact Area: Gold Flash Tin Plating on Solder Tail |
| SHELL OR COVER | Material | Shell: Stainless Steel SUS304 |
| | Plating | Shell: Nickel Plating Gold Flash Plating on Solder Tail |
| RATING | Current Rating: 0.5A Voltage Rating: 100VAC Operating temperature : -40°C to +85°C Storage temperature : -40°C to +85°C | |



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| ELECTRICAL | | |
|---------------------------------|---|--|
| Item | Requirement | Test Condition |
| Contact Resistance | 30 m Ohm Max(Initial) 60 m Ohm Max (Final) | Subject mated contacts assembled in housing to 20mV Max open circuit at 100mA Max. EIA-364-6B. |
| Insulation Resistance | 500 M Ohm Min. | Impressed voltage 500 VDC. Test between adjacent circuits of unmated connector. EIA-364-21C. |
| Dielectric withstanding Voltage | No creeping discharge or flashover shall occur. Current leakage: 1.0 mA Max | 500VAC for 1minute Test between adjacent circuits of unmated connector. EIA-364-20B |

| MECHANICAL | | |
|-------------------------|----------------------|--|
| Item | Requirement | Test Condition |
| Durability | 5000Cycle | Operation Speed : 100 cycle/min. Durability Cycles : 5,000 Cycles EIA-364-9C |
| Contact Retention Force | 200 gf/ Per Pin Min. | Measure the contact retention force with Tensile strength tester. |



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ENVIRONMENTAL

| Item | Requirement | Test Condition |
|-------------------------------|--|---|
| Thermal Shock | No Damage | Mated Connector -40+/-3°C(30minutes), +85+/-2°C(30 minutes)Perform this a cycle, repeat 5 cycles EIA-364-32C |
| Humidity-Temperature Cycle | No Damage | Mated Connector 25~65°C ,90~95% RH, 10 Cycles EIA-364-31B. |
| Temperature Life (Heat Aging) | No Damage | Mated Connector 85°C , 250hours, EIA-364-17B. |
| Salt Spray | No detrimental corrosion allowed in contact area and base metal exposed. | Subject mated connectors to 35+/-2 °C and 5+/-1% salt condition for 24hours. After test, rinse the sample with water and recondition the room temperature for 1 hour. EIA-364-26B. |

SOLDER ABILITY

| Item | Requirement | Test Condition |
|----------------|--|--|
| Solder ability | The inspected area of each lead must have 95% solder coverage. | Steam Aging Preconditioning : 93+3/-5°C 、100%HR 、8hrs. < J-STD-002 category 3 aging > Solder pot temperature: 260±5°C, 3sec |