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| PRODUCT SPECIFICATION<br><b>2.00 Female Header Connectors Series</b> | SPEC.No.:Female Header-002 |             |
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| Rev | Date     | Description | Edited by | Approvals                             |
|-----|----------|-------------|-----------|---------------------------------------|
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**1. Scope:**

This specification covers the requirements for product performance, test methods and quality assurance provisions of **2.00 Female Header Connectors Series**.

**2. Shape,Construction and Dimensions:**

See attached drawing

**3. Materials**

See attached drawing

**4. Accommodated cable and P.C.Board**

4.1 Thickness:0.8(.031") ~1.6mm(.063")

4.2 P.C.Board Layout:See attached drawings

**5. Rating:**

|   |             |               |
|---|-------------|---------------|
| A | Current     | 2 A           |
| B | Temperature | -40°C ~+105°C |

|                                                                                 |                            |             |
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## 6. Product Performance and Requirements:

| Electrical Performance             |                                                                                                                                                                                                                                 |                                                                                                              |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Test Description                   | Test Procedures & Condition                                                                                                                                                                                                     | Requirements                                                                                                 |
| Temperature Rise vs Current Rating | EIA 364-70<br>Measure temperature rise vs current at 0.5A minimum when measured at an ambient temperature of 23±3°C.                                                                                                            | The $\Delta T$ shall not exceed +30°C at any point in the connector under test.                              |
| Contact Resistance                 | EIA 364-23<br><br>Subject mated contacts assembled in housing to closed circuit current of 100 mA maximum at open circuit at 20 mV maximum.                                                                                     | 20 mΩ maximum                                                                                                |
| Insulation Resistance              | EIA 364-21<br><br>Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector assemblies.<br>Test Voltage: 500V DC.                                            | 1000MΩ minimum                                                                                               |
| Dielectric Withstanding Voltage    | EIA 364-20<br><br>Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector assemblies.<br>Test Potential: 500V AC at sea level<br>Test Duration: 60 seconds | 1. No flashover,<br>No spark over,<br>No excess leakage, No breakdown.<br><br>2. Current leakage:<br>< 0.5mA |

| Mechanical Performance |                                                                                                          |                                                                                                                                                                                                           |
|------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Description       | Test Procedures & Condition                                                                              | Requirements                                                                                                                                                                                              |
| Flammability           | UL 94V-0<br><br>This procedure is to ensure thermoplastic resin compliance to UL flammability standards. | The manufacturer will require its thermoplastic resin vendor to supply a detailed C of C with each resin shipment. The C of C shall clearly show the resin's UL listing number, lot number, date code, et |

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|                                 |                                                                                |                                                                  |
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|                                 |                                                                                | cetera.                                                          |
| Contact retaining in insulator  | Retention speed 25±3mm per minute form housing                                 | More than<br>400 gram                                            |
| Single contact insertion fore   | Measure force to withdrawal using 0.46mm square pin at speed 25±3mm per minute | 600 gram max                                                     |
| Single contact withdrawal force | Measure force to withdrawal using 0.46mm square pin at speed 25±3mm per minute | 20 gram max                                                      |
| Vibration                       | 1.5 mm 10 - 55 - 10HZ/minte each<br><br>2 hours for X,Y and Z directions       | pppearance: No danmage<br><br>D iscontinuity:I micro secpmd ,max |

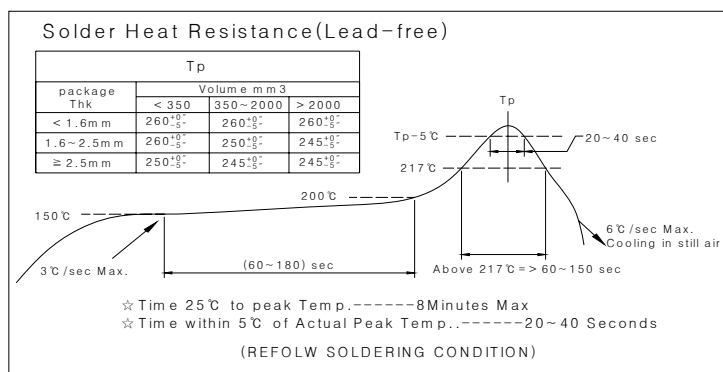
| Environmental Performance    |                                                                                                                                                                                                                                                                                                                                                                               |                                                        |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Test Description             | Test Procedures & Condition                                                                                                                                                                                                                                                                                                                                                   | Requirements                                           |
| Solder ability               | EIA 364-52<br>Subject unmated connectors should be tested according to the condition listed below:<br>Steam Aging Temperature: 90 ~ 96°C<br>Steam Aging Duration: 8 hours±5 min.<br>Soldering Temperature: 260±5°C<br>Soldering Time: 4 ~ 5 seconds<br>Flux: Inactivated                                                                                                      | Continuous solder coating with a minimum 95% coverage. |
| Resistance to Soldering Heat | EIA 364-56<br>Condition B<br><br>Subject unmated connectors should be tested according to the condition listed below:<br>Insulator:PA46/PA6T/LCP<br>DIP Type :<br>Soldering time:5±0.5 seconds<br>Soldering pot:260±5 °C<br>SMT Type :<br>Soldering time:5±0.5 seconds<br>Soldering pot:250~260°C<br><br>Insulator:PBT<br>Soldering time:5±0.5 seconds<br>Soldering pot:230°C | No damage.                                             |

|                                                                      |                            |             |
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| Temperature Life | <p>A 364-17 Test Condition 3 Method A</p> <p>The object of this test is to detail a standard test method to assess the ability of a connector to withstand elevated temperatures with or without electrical loading.</p> <p>Subject mated connectors should be tested according to the condition listed below :</p> <p>Temperature : 105±2°C<br/>Duration : 96 hours</p> | <p>1. No evidence of damage.</p> <p>2. The electrical performances should meet the spec. specified.</p> |
| Salt Spray       | <p>EIA 364-26</p> <p>Subject mated and unmated connectors should be tested according to the condition listed below:</p> <p>Temperature: 35±3°C<br/>Humidity: 95 ~ 98% (R.H.)<br/>PH Value: 6.5 ~ 7.2<br/>Duration: 48 hours</p>                                                                                                                                          | <p>1. No evidence of damage.</p> <p>2. The electrical performances should meet the spec. Specified.</p> |

**Soldering Condition:**  
**Reflow soldering**

**Lead-Free-IPC / IPC-STD-020C**



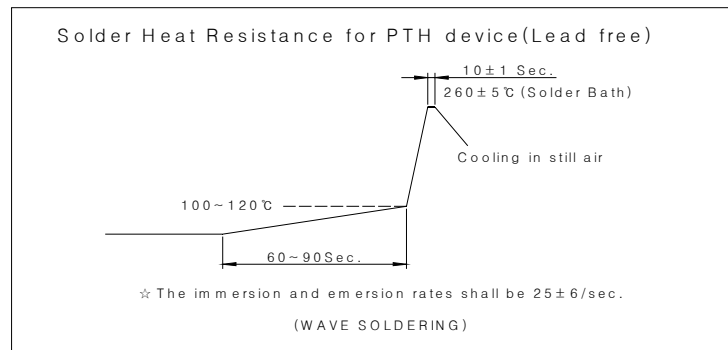
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**Wave Soldering****Lead-Free-JESD22-B106C-Lead-free****Leyconn**