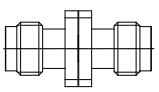
| Applicable standard | | MIL-STD-348B △1 | | |
|---|---|---|---|---|
| Rating | Operating temperature range | -55 °C to +105 °C ( 95 %RH Max.) | Storage temperature range | -55 °C to +50 °C ( 95 %RH Max.) |
| | Power | -- W | Characteristic impedance | 50 Ω( 0 ～ 50 GHz)(Note 4) △1 |
| | Peculiarity | ---- | Applicable cable | ---- |

## SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|---|---|---|---|---|
| **CONSTRUCTION** | | | | |
| General examination | Visually and by measuring instrument. | According to drawing. | X | X |
| Marking | Confirmed visually. | | X | X |
| **ELECTRICAL CHARACTERISTICS** | | | | |
| Contact resistance | 100 mA Max.(DC or 1000 Hz) | Center contact 4 mΩ Max. | X | X |
| | | Outer contact 2 mΩ Max. | X | X |
| Insulation resistance | 500 V DC. | 5000 MΩ Min. | X | X |
| Withstanding voltage | 500 V AC for 1 min. current leakage 2 mA Max. | No flashover or breakdown. | X | X |
| Voltage standing wave ratio (Impedance 42.5Ω PCB) △1 | Frequency 0 ～ 50 GHz | VSWR 1.5 Max.(Note 2) | X | — |
| Voltage standing wave ratio (back to back ) ◁1 | Frequency 0 ～ 40 GHz. | VSWR 1.4 Max. | X | — |
| | Frequency 40 ～ 50GHz | VSWR 1.75 Max. | | |
| Insertion loss | Frequency - ～ - GHz. | --- dB Max. | — | — |
| **MECHANICAL CHARACTERISTICS** | | | | |
| Contact insertion and extraction forces | φ 0.495 $^{+0}_{-0.005}$ by steel gauge. | Insertion force --- N Max. | — | — |
| | | Extraction force 0.2～2 N. | X | X |
| Insertion and extraction forces | Measured by applicable connector. | Insertion force --- N Max. | — | — |
| | | Extraction force --- N Min. | — | — |
| Mechanical operation | 500 times insertion and extractions. | 1)Contact resistance:<br>Center contact 6 mΩ Max.<br>Outer contact 4 mΩ Max.<br>2)No damage, crack and looseness of parts. | X | — |
| Vibration | Frequency 10 to 2000 Hz single amplitude 0.75 mm, 196 m/s$^2$ at 10 cycles for 3 directions. | 1)No electrical discontinuity of 1 μs.<br>2)No damage, crack and looseness of parts. | X | — |
| Shock | 980 m/s$^2$ directions of pulse 6 ms at 3 times for 3 directions. | | X | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| Damp heat | Exposed at -10 to +65 °C, 90 to 98 % total 10 cycles.( 240 h) | 1)Insulation resistance: 100 MΩ Min. (at high humidity)<br>2) Insulation resistance: 5000 MΩ Min. (at dry)<br>3)No damage, crack and looseness of parts. | X | — |
| Rapid change of temperature | Temperature -55 → - → +105 → - °C<br>Time 30 → 3 → 30 → 3 min.<br>Under 5 cycles. | No damage, crack and looseness of parts. | X | — |
| Corrosion salt mist | Exposed in 5 % salt water spray for 48 h. | 1)Contact resistance:<br>Center contact 6 mΩ Max.<br>Outer contact 4 mΩ Max. | X | — |

| | Count | Description of revisions | Designed | Checked | Date |
|---|---|---|---|---|---|
| ⚠ | 5 | DIS-D-00001726 | TP.MATSUMOTO | TS.NOBE | 16.12.08 |

Remark
RoHS Compliant
Note 1 Measurement state of back to back.




Note 2 The actual value rather than guarantee value.
△1 Note 3 This connector should be used for test port only.
△1 Note 4 This connector is optimized for impedance 42.5Ω signal line.
Unless otherwise specified, refer to IEC 60512.

| | | |
|---|---|---|
| Approved | KY.SHIMIZU | 16.06.08 |
| Checked | KY.SHIMIZU | 16.06.08 |
| Designed | TP.MATSUMOTO | 16.06.08 |
| Drawn | TP.MATSUMOTO | 16.06.08 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

| | | | |
|---|---|---|---|
| HRS | SPECIFICATION SHEET | Drawing No. | ELC-368164-17-00 |
| | | Part No. | H2.4-R-SR2-IN(17) |
| | HIROSE ELECTRIC CO., LTD. | Code No. | CL338-0602-0-17 ⚠ 1/1 |

FORM HD0011-2-1