






|  |                             |  |                           |  |   |
|--|-----------------------------|--|---------------------------|--|---|
| 1Applicable standard   |                             | MIL-STD-348B   |                           |  |   |
| 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 to 50 GHz)   |   |
|  | 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  |                             | 100 V DC.  |                           | 1000 MΩ Min.   | X X   |
| Withstanding voltage   |                             | 200 V AC for 1 min. current leakage 2 mA Max.  |                           | No flashover or breakdown.   | X X   |
| Voltage standing wave ratio  |                             | Frequency 0 to 50 GHz.   |                           | VSWR 1.3 Max.(0 to 40GHz)  | X —   |
|  |                             |  |                           | VSWR 1.4 Max.(40 to 50GHz)   |   |
| Insertion loss   |                             | Frequency - to - GHz.  |                           | --- dB Max.  | — —   |
| MECHANICAL CHARACTERISTICS   |                             |  |                           |  |   |
| Contact insertion and extraction forces  |                             | φ 0.495 <sup>0</sup> <sub>-0.005</sub> by steel gauge.   |                           | Insertion force --- N Max.   | — —   |
|  |                             |  |                           | Extraction force 0.2 to 2 N.   | 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.   | X —   |
|  |                             |  |                           | 2)No damage, crack and looseness of parts.   |   |
| Vibration  |                             | Frequency 10 to 100 Hz single amplitude 1.5 mm,<br>59 m/s <sup>2</sup> at 5 cycles for 3 directions.  |                           | 1)No electrical discontinuity of 1 μs.   | X —   |
|  |                             |  |                           | 2)No damage, crack and looseness of parts.   |   |
| Shock  |                             | 980 m/s <sup>2</sup> directions of pulse 6 ms<br>at 3 times for 3 directions.  |                           |  | X —   |
| Cable clamp strength<br>(Against cable pull)   |                             | Using a pulling tester, pull the cable axially at a rate<br>of 10 mm/min. and record the strength at which<br>the cable or connector breaks.   |                           | - N Min.   | — —   |
| ENVIRONMENTAL CHARACTERISTICS  |                             |  |                           |  |   |
| Damp heat  |                             | Exposed at -10 to +65 °C, 90 to 98 %<br>total 10 cycles.( 240 h)   |                           | 1)Insulation resistance: 100 MΩ Min.<br>(at high humidity)<br>2) Insulation resistance: 1000 MΩ Min.<br>(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.  |                           | VSWR 1.3 Max.(0 to 40GHz)<br>VSWR 1.4 Max.(40 to 50GHz)  | X —   |
|  |                             |  |                           |  |   |
|  | Count                       | Description of revisions   | Designed                  | Checked  | Date  |
|   | 2                           | DIS-D-00001843   | TP.MATSUMOTO              | TS.NOBE  | 17.01.30  |
| Remark   |                             |  | Approved                  | KY.SHIMIZU   | 16.04.07  |
| RoHS COMPLIANT   |                             |  | Checked                   | KY.SHIMIZU   | 16.04.07  |
|  Note 1 This connector should be used for test port only. |                             |  | Designed                  | TP.MATSUMOTO   | 16.04.07  |
| Unless otherwise specified, refer to IEC 60512.  |                             |  | Drawn                     | TP.MATSUMOTO   | 16.04.07  |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test   |                             |  | Drawing No.               | ELC-368795-00-00   |   |
|   | SPECIFICATION SHEET         |  | Part No.                  | H2.4-LR-SR2  |   |
|  | HIROSE ELECTRIC CO., LTD.   |  | Code No.                  | CL338-0603-0-00  |  1/1 |