

|                                                                                                                                          |                             |                                                                                                                                               |          |                                                                                                                                                                |                                 |          |   |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------|---|
| Applicable standard                                                                                                                      |                             | MIL-STD-348B                                                                                                                                  |          |                                                                                                                                                                |                                 |          |   |
| Rating                                                                                                                                   | Operating temperature range | -55 °C to +125 °C ( 95 %RH Max.)<br>                         |          | Storage temperature range                                                                                                                                      | -20 °C to +70 °C ( 90 %RH Max.) |          |   |
|                                                                                                                                          | Power                       | -- W                                                                                                                                          |          | Characteristic impedance                                                                                                                                       | 50 Ω ( 0 to 30 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.                                                                                                                           |          |                                                                                                                                                                |                                 | —        | — |
| ELECTRICAL CHARACTERISTICS                                                                                                               |                             |                                                                                                                                               |          |                                                                                                                                                                |                                 |          |   |
| Contact resistance                                                                                                                       |                             | 100 mA (DC or 1000 Hz)                                                                                                                        |          | Center contact 6 mΩ Max.<br>Outer contact 6 mΩ Max.                                                                                                            | X<br>X                          | X<br>X   |   |
| Insulation resistance                                                                                                                    |                             | 500 V DC.                                                                                                                                     |          | 1000 MΩ Min.                                                                                                                                                   | X                               | X        |   |
| Withstanding voltage                                                                                                                     |                             | 500 V AC for 1 min. current leakage 2 mA Max.                                                                                                 |          | No flashover or breakdown.                                                                                                                                     | X                               | X        |   |
| V.S.W.R.<br>                                             |                             | Frequency 0 to 30 GHz.                                                                                                                        |          | V.S.W.R. 1.5 Max.                                                                                                                                              | X                               | —        |   |
| Insertion loss                                                                                                                           |                             | Frequency - to - GHz.                                                                                                                         |          | --- dB Max.                                                                                                                                                    | —                               | —        |   |
| MECHANICAL CHARACTERISTICS                                                                                                               |                             |                                                                                                                                               |          |                                                                                                                                                                |                                 |          |   |
| Contact insertion and extraction forces                                                                                                  |                             | φ --- by steel gauge.                                                                                                                         |          | Insertion force --- N Max.<br>Extraction force --- N Min.                                                                                                      | —<br>—                          | —<br>—   |   |
| Insertion and extraction forces<br>                     |                             | Measured by applicable connector.<br>[SMPJ-HKJ]                                                                                               |          | Insertion force 45 N Max.<br>Extraction force 9 N Min.                                                                                                         | X<br>X                          | X<br>X   |   |
| Mechanical operation<br>                               |                             | 500 times insertion and extractions.                                                                                                          |          | 1)Contact resistance:<br>Center contact 12 mΩ Max.<br>Outer contact 12 mΩ Max.<br>2)No damage, crack and looseness of parts.                                   | X                               | —        |   |
| Vibration<br>                                          |                             | Frequency 10 to 500 Hz single amplitude 0.75 mm,<br>98 m/s <sup>2</sup> at 10 cycles for 3 directions.                                        |          | 1)No electrical discontinuity of 1 μs.<br>2)No damage, crack and looseness of parts.                                                                           | X                               | —        |   |
| Shock<br>                                              |                             | 490 m/s <sup>2</sup> directions of pulse 11 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 --- mm/min. and record the strength at which<br>the cable or connector breaks. |          | --- N Min.                                                                                                                                                     | —                               | —        |   |
| ENVIRONMENTAL CHARACTERISTICS                                                                                                            |                             |                                                                                                                                               |          |                                                                                                                                                                |                                 |          |   |
| Damp heat<br>                                          |                             | Exposed at +25 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<br>                        |                             | Temperature -55 → - → +125 → - °C<br>Time 30 → 3 → 30 → 3 min.<br>Under 5 cycles.                                                             |          | No damage, crack and looseness of parts.                                                                                                                       | X                               | —        |   |
| Corrosion salt mist<br>                                |                             | Exposed in 5 % salt water spray for 48 h.                                                                                                     |          | V.S.W.R. 1.5 Max. [0 to 30 GHz]                                                                                                                                | X                               | —        |   |
|                                                                                                                                          |                             |                                                                                                                                               |          |                                                                                                                                                                |                                 |          |   |
|                                                        | Count                       | Description of revisions                                                                                                                      |          | Designed                                                                                                                                                       | Checked                         | Date     |   |
|                                                        | 1                           | DIS-D-00003210                                                                                                                                |          | TK.SAWAGUCHI                                                                                                                                                   | KY.SHIMIZU                      | 18.06.07 |   |
| Remark                                                                                                                                   |                             |                                                                                                                                               |          | Approved                                                                                                                                                       | TO.KATAYAMA                     | 17.09.05 |   |
| RoHS COMPLIANT                                                                                                                           |                             |                                                                                                                                               |          | Checked                                                                                                                                                        | KY.SHIMIZU                      | 17.09.05 |   |
| Note  The characteristic after mounting on the board. |                             |                                                                                                                                               |          | Designed                                                                                                                                                       | TK.SAWAGUCHI                    | 17.09.05 |   |
| Unless otherwise specified, refer to IEC 60512.                                                                                          |                             |                                                                                                                                               |          | Drawn                                                                                                                                                          | TK.SAWAGUCHI                    | 17.09.05 |   |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                           |                             | Drawing No.                                                                                                                                   |          | ELC-373488-00-00                                                                                                                                               |                                 |          |   |
|                                                       | SPECIFICATION SHEET         |                                                                                                                                               | Part No. | SMP-PR(LD)-SMT-1                                                                                                                                               |                                 |          |   |
|                                                                                                                                          | HIROSE ELECTRIC CO., LTD.   |                                                                                                                                               | Code No. | CL338-1103-0-00  1/1                                                      |                                 |          |   |