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 In case that the application demands a high level of reliability, such as automotive,  
 please contact a company representative for further information.

| Applicable standard   |   |                                  |   |                                  |             |
|---|---|----------------------------------|---|----------------------------------|-------------|
| Rating  | Operating temperature range   | -55 °C to +125 °C ( 95 %RH Max.) | Storage temperature range   | -55 °C to +125 °C ( 95 %RH Max.) |             |
|   | Power   | -- W                             | Characteristic impedance  | 50 Ω ( 0 to 40 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 8 mΩ Max.  | X                                | X           |
|   |   |                                  | Outer contact 4 mΩ Max.   | X                                | 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           |
| Voltage standing wave ratio   | Frequency 0 to 18 GHz.  |                                  | VSWR 1.1 Max.   | X                                | X           |
|   | Frequency 18 to 26.5 GHz  |                                  | VSWR 1.15 Max.  |                                  |             |
|   | Frequency 26.5 to 40 GHz.   |                                  | VSWR 1.2 Max.   |                                  |             |
| Insertion loss  | Frequency 0 to 40 GHz.  |                                  | 0.03+0.03√f dB Max. $\triangle$   | X                                | X           |
| MECHANICAL CHARACTERISTICS  |   |                                  |   |                                  |             |
| Contact insertion and extraction forces   | $\phi$ 0.91 $^{+0.005}_0$ by steel gauge.   |                                  | Insertion force --- N Max.  | —                                | —           |
|   |   |                                  | Extraction force 0.5 to 4.9 N   | X                                | X           |
| Insertion and extraction forces   | Measured by applicable connector.   |                                  | Insertion force --- N Max.  | —                                | —           |
|   |   |                                  | Extraction force --- N Min.   | —                                | —           |
| Mechanical operation  | 1000 times insertion and extractions.   |                                  | 1)Contact resistance:<br>Center contact 12 mΩ Max.<br>Outer contact 8 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 <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   | 1960 m/s <sup>2</sup> directions of pulse 6 ms at 3 times for 6 directions.   |                                  |   | X                                | —           |
| Cable clamp strength (Against cable pull)   | Using a pulling tester, pull the cable axially at a rate of mm/min. and record the strength at which the cable or connector breaks. |                                  | N Min.  | —                                | —           |
| ENVIRONMENTAL CHARACTERISTICS   |   |                                  |   |                                  |             |
| Damp heat   | Exposed at -10 to +65 °C, 90 to 98 % total 10 cycles.( 240 h)   |                                  | 1)Insulation resistance: 100 MΩ Min. $\triangle$<br>(at high humidity)<br>2) Insulation resistance: 1000 MΩ Min. (at dry)<br>3)No damage, crack and looseness of parts. | X                                | —           |
| Rapid change of temperature   | Temperature -65 → — →+125 → — °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.   |                                  | 1.1 Max. (Frequency 0 ~ 18 GHz.)<br>VSWR 1.15 Max.(Frequency18~26.5 GHz.)<br>1.2 Max. (Frequency 26.5~40 GHz.)  | X                                | —           |
|   | Count   | Description of revisions         | Designed  | Checked                          | Date        |
| $\triangle$   | 2   | DIS-D-00003383                   | TK.SAWAGUCHI  | KY.SHIMIZU                       | 18.08.03    |
| Remark  |   |                                  | Approved  | KY.SHIMIZU                       | 17.03.15    |
|   |   |                                  | Checked   | KY.SHIMIZU                       | 17.03.15    |
|   |   |                                  | Designed  | TY.OZAKI                         | 17.03.15    |
| Unless otherwise specified, refer to IEC 60512.                                     |   |                                  | Drawn   | TY.OZAKI                         | 17.03.15    |
| Note  | QT:Qualification Test AT:Assurance Test X:Applicable Test   |                                  | Drawing No.   | ELC-374782-00-00                 |             |
|  | SPECIFICATION SHEET   |                                  | Part No.  | HK-A-JJ                          |             |
|   | HIROSE ELECTRIC CO., LTD.   |                                  | Code No.  | CL338-0098-0-00                  | $\triangle$ |