


| 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 | ϕ 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: Center contact 12 mΩ Max. Outer contact 8 mΩ Max. 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. 2)No damage, crack and looseness of parts. | X | — |
| Shock | 1960 m/s ² 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 (at high humidity) 2) Insulation resistance: 1000 MΩ Min. (at dry) 3)No damage, crack and looseness of parts. | X | — |
| Rapid change of temperature | Temperature -65 → — →+125 → — °C Time 30 → 3 →30 →3 min. 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.) VSWR 1.15 Max.(Frequency18~26.5 GHz.) 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 1/1 |