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|---|---|---------------------------------------|--|---------------------------------|---|
| Applicable standard | | | | | |
| Rating | Operating temperature range | -40 °C to +85 °C (95 %RH Max.) | Storage temperature range | -40 °C to +85 °C (95 %RH Max.) | |
| | Power | -- W | Characteristic impedance | 75 Ω(0 to 12 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 8 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 3 GHz. | | VSWR 1.29 Max.(18 dB Min) | X | — |
| | Frequency 3 to 12 GHz. | | VSWR 1.43 Max.(15 dB Min) | | |
| Insertion loss | Frequency - to - GHz. | | --- dB Max. | — | — |
| MECHANICAL CHARACTERISTICS | | | | | |
| Contact insertion and extraction forces | φ 1.32 ⁰ _{-0.005} by steel gauge. | | Insertion force --- N Max. | — | — |
| | | | Extraction force 0.6 N Min. | X | — |
| Insertion and extraction forces | Measured by applicable connector. | | Insertion force --- N Max. | — | — |
| | | | Extraction force --- N Min. | — | — |
| Mechanical operation | 5000 times insertion and extractions.  | | 1)Contact resistance: Center contact 12 mΩ Max. Outer contact 12 mΩ Max. | X | — |
| | | | 2)No damage, crack and looseness of parts. | | |
| Vibration | Frequency 10 to 500 Hz single amplitude 0.75 mm, 98 m/s ² at 10 cycles for 3 directions. | | 1)No electrical discontinuity of 1 μs. | X | — |
| | | | 2)No damage, crack and looseness of parts. | | |
| Shock | 490 m/s ² directions of pulse 11 ms at 3 times for 3 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 +25 to +65 °C, 90 to 96 % total 10 cycles.(240 h) | | 1)Insulation resistance: 100 MΩ Min. (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 -40 → - → +85 → - °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. | | VSWR 1.29 Max. (Frequency 0 ~ 3 GHz.) VSWR 1.43 Max. (Frequency 3 ~12 GHz.) | X | — |
| Resistance to soldering heat | Solder iron methood) Temperature : 380°C Application time : 5 Sec. | | VSWR 1.29 Max. (Frequency 0 ~ 3 GHz.) VSWR 1.43 Max. (Frequency 3 ~12 GHz.) | X | — |
|  | Count | Description of revisions | Designed | Checked | Date |
| | 1 | DIS-D-00001355 | MA.SAEKI | KY.SHIMIZU | 16.07.22 |
| Remark | | | Approved | KY.SHIMIZU | 16.03.04 |
| RoHS COMPLIANT | | | Checked | KY.SHIMIZU | 16.03.04 |
| | | | Designed | YI.FUNADA | 16.03.04 |
| Unless otherwise specified, refer to IEC 60512. | | | Drawn | YI.FUNADA | 16.03.04 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | Drawing No. | ELC-368216-00-00 | |
|  | SPECIFICATION SHEET | | Part No. | BNC(75)-BLR-PC-12G | |
| | HIROSE ELECTRIC CO., LTD. | | Code No. | CL302-0081-0-00 |  1/1 |