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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| Applicable standard | | | | |
|---|---|---|---|---|
| Rating | Operating temperature range | -40 ℃ to +85 ℃ ( 95%RH Max.) | Storage temperature range | -40 ℃ to +85 ℃ ( 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.<br>Frequency 3 to 12 GHz. | VSWR 1.29 Max.( 18 dB Min)<br>VSWR 1.43 Max.( 15 dB Min) | X | — |
| 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:<br>Center contact 12 mΩ Max.<br>Outer contact 12 mΩ Max.<br>2)No damage, crack and looseness of parts. | X | — |
| 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.<br>2)No damage, crack and looseness of parts. | X | — |
| 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 ℃, 90 to 96 %<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 -40 → - → +85 → - ℃<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 1.29 Max. (Frequency 0 ～ 3 GHz.)<br>VSWR 1.43 Max. (Frequency 3 ～12 GHz.) | X | — |
| Resistance to soldering heat | Solder iron metheod) Temperature : 380℃<br>Application time : 5 Sec. | VSWR 1.29 Max. (Frequency 0 ～ 3 GHz.)<br>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
RoHS COMPLIANT

Unless otherwise specified, refer to IEC 60512.

| | | |
|---|---|---|
| Approved | KY.SHIMIZU | 16.03.04 |
| Checked | KY.SHIMIZU | 16.03.04 |
| Designed | YI.FUNADA | 16.03.04 |
| Drawn | YI.FUNADA | 16.03.04 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

| | | | | |
|---|---|---|---|---|
| | | Drawing No. | ELC-368283-00-00 | |
| HRS | SPECIFICATION SHEET | Part No. | BNC(75)-PLR-PC-12G-1 | |
| | HIROSE ELECTRIC CO., LTD. | Code No. | CL302-0083-0-00 | ⚠ 1/1 |

FORM HD0011-2-1