

|                                                                                     |                                                                                                                                                    |                                       |                                                                                                                                                          |                                 |                                                                                           |    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------|----|
| 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 <sup>0</sup> <sub>-0.005</sub> 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.                                                                           | X                               | —                                                                                         |    |
|                                                                                     |                                                                                                                                                    |                                       | 2)No damage, crack and looseness of parts.                                                                                                               |                                 |                                                                                           |    |
| Vibration                                                                           | Frequency 10 to 500 Hz single amplitude 0.75 mm, 98 m/s <sup>2</sup> 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 <sup>2</sup> 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)<br>2) Insulation resistance: 1000 MΩ Min. (at dry)<br>3)No damage, crack and looseness of parts. | X                               | —                                                                                         |    |
| Rapid change of temperature                                                         | Temperature -40 → - → +85 → - °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.                                                                                                          |                                       | VSWR 1.29 Max. (Frequency 0 ~ 3 GHz.)<br>VSWR 1.43 Max. (Frequency 3 ~12 GHz.)                                                                           | X                               | —                                                                                         |    |
| Resistance to soldering heat                                                        | Preheat condition: Temp.100°Cmax time 2 min max.<br>Solder iron: Temp. 380°C max,time 5 Sec max.<br>Flow soldering : Temp.245°C max,time 5 Sec max |                                       | 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                                                                                      |    |
|  |                                                                                                                                                    |                                       |                                                                                                                                                          |                                 |                                                                                           |    |
| Remark<br>RoHS COMPLIANT                                                            |                                                                                                                                                    |                                       | Approved                                                                                                                                                 | TO.KATAYAMA                     | 17.12.21                                                                                  |    |
|                                                                                     |                                                                                                                                                    |                                       | Checked                                                                                                                                                  | TO.KATAYAMA                     | 17.12.21                                                                                  |    |
|                                                                                     |                                                                                                                                                    |                                       | Designed                                                                                                                                                 | MA.SAEKI                        | 17.12.21                                                                                  |    |
|                                                                                     |                                                                                                                                                    |                                       | Drawn                                                                                                                                                    | MA.SAEKI                        | 17.12.21                                                                                  |    |
| Unless otherwise specified, refer to IEC 60512.                                     |                                                                                                                                                    |                                       |                                                                                                                                                          |                                 |                                                                                           |    |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                      |                                                                                                                                                    |                                       | Drawing No.                                                                                                                                              | ELC-375905-00-00                |                                                                                           |    |
|  | SPECIFICATION SHEET                                                                                                                                |                                       | Part No.                                                                                                                                                 | BNC(75)-PLR-PC-12G-2            |                                                                                           |    |
|                                                                                     | HIROSE ELECTRIC CO., LTD.                                                                                                                          |                                       | Code No.                                                                                                                                                 | CL302-0085-0-00                 |  1/1 |    |