


Nov.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|---|-----------------------------|--|----|---------------------|----------|--|--------------------------|---|----|------|------|
| △ | | | | | | △ | | | | | |
| △ | | | | | | △ | | | | | |
| APPLICABLE STANDARD | | | | | | | | | | | |
| RATING | Operating Temperature Range | -40°C to 125°C (Note1) | | | | Storage Temperature Range | -10°C to +60°C (Note3) | | | | |
| | Operating Humidity Range | 20% to 85% (Note2) | | | | Storage Humidity Range | 40% to 70% (Note3) | | | | |
| | Current | 1.0A | | | | Applicable Connector | TB4-10P-1F(800) | | | | |
| | Voltage | 100V AC/DC | | | | | FPC/FFC : (t=0.3±0.03mm) | | | | |
| SPECIFICATIONS | | | | | | | | | | | |
| ITEM | | TEST METHOD | | | | REQUIREMENTS | | | | QT | AT |
| CONSTRUCTION | | | | | | | | | | | |
| General Examination | | Visually and by measuring instrument. | | | | According to drawing. | | | | 0 | 0 |
| Marking | | Confirmed visually. | | | | | | | | 0 | - |
| ELECTRICAL CHARACTERISTICS | | | | | | | | | | | |
| Contact Resistance | | 20mV MAX, 1mA (DC or 1000Hz). | | | | 25 mΩ MAX. | | | | 0 | - |
| Millivolt Level Method | | | | | | | | | | | |
| Insulation Resistance | | 500V DC. | | | | 100MΩ Min. | | | | 0 | - |
| Voltage Proof | | 500V AC for 1min. | | | | No flashover or breakdown. | | | | 0 | - |
| MECHANICAL CHARACTERISTICS | | | | | | | | | | | |
| Mechanical Operation | | 10 times insertion and extraction. | | | | ① Contact resistance : 25mΩ MAX. ② No damage, crack or looseness of parts. | | | | 0 | - |
| Lock strength | | Measure break strength of the lock by pulling the connector in the mating direction. | | | | 80N Min. | | | | 0 | - |
| Vibration | | Acceleration 118m/s ² , Random duration 8h, Frequency 60 ~ 1200Hz | | | | ① No electrical discontinuity. ② No damage, crack or looseness of parts. ③ Contact resistance : 25 mΩ MAX. | | | | 0 | - |
| Shock | | Acceleration 343m/s ² , duration of pulse 5 ~ 10 ms at 10 times for 3 directions. | | | | ① No electrical discontinuity. ② No damage, crack or looseness of parts. ③ Contact resistance : 25 mΩ MAX. | | | | 0 | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | | | |
| Temperature, humidity cycling | | Temperature -40 °C → + 125 °C Time 8h/1cycle 40Cycles humidity 80 ~ 100 % | | | | ① Contact resistance : 25mΩ MAX. ② No damage, crack or looseness of parts. ③ Insulation resistance : 100M Ω MIN. | | | | 0 | - |
| Rapid Change of Temperature | | Temperature -40 °C → +125 °C Time 30min → 30min 100 Cycles. | | | | ① Contact resistance : 25mΩ MAX. ② No damage, crack or looseness of parts. ③ No electrical discontinuity. | | | | 0 | - |
| Dry Heat | | Exposed at 125±2 °C, 1,008h | | | | ① Contact resistance : 25mΩ MAX. ② No damage, crack or looseness of parts. | | | | 0 | - |
| Cold | | Exposed at -40±2 °C, 120h | | | | ① Contact resistance : 25mΩ MAX. ② No damage, crack or looseness of parts. | | | | 0 | - |
| Resistance To SO ₂ Gas | | Exposed in 25 PPM at 75% Min for 96h | | | | ① Contact resistance : 25mΩ MAX. | | | | 0 | - |
| Remarks | | | | | | | | | | | |
| Note1 : Include the temperature rising by current. | | | | | | | | | | | |
| Note2 : No condensing. | | | | | | | | | | | |
| Note3 : Apply to the condition of long term storage for unused products before PCB on board, after PCB on board, operating temperature and humidity range is applied for interim storage during transportation. | | | | | | | | | | | |
| | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED | | | |
| | | | | H.S.CHOI | H.S.CHOI | S.M.LIM | S.M.LIM |  | | | |
| | | | | 24.08.29 | 24.08.29 | 24.08.29 | 24.08.29 | | | | |
| NOTE QT : QUALIFICATION TEST AT : ASSURANCE TEST O : APPLICABLE TEST | | | | | | | | | | | |
| HIROSE KOREA CO.,LTD. | | | | SPECIFICATION SHEET | | | | PART NO. TB4-10RP-1(800) | | | |
| CODE NO.(OLD) | | DRAWING NO. | | CODE NO. | | | | | | 1/1 | |
| CL | | ELC4-634444-80 | | | | CL 6601-1009-6-800 | | | | | |