





| | | | | | | | |
|---|---|---|---------|--|------------|---|-----|
| Applicable standard | | | | | | | |
| Rating | Operating temperature range  | -40 °C TO +105°C (NOTE1) | | Storage Temperature range | | Storage Temperature range | |
| | Operating humidity range | 20% TO 80% (NOTE2) | | Storage humidity range | | Storage humidity range | |
| | Applicable connector | DF59-2P-2FC(**) DF59-2P-2C DF59-2P-2SP(**) | Current | | Current | | |
| | | | Voltage | Voltage | AC/DC 230V | | |
| | | UL/C-UL | | AC/DC 29.9V | | | |
| | | | TÜV | TBD | | | |
| Specifications | | | | | | | |
| Item | | Item | | Item | | QT | AT |
| Construction | | | | | | | |
| General examination | | Visually and by measuring instrument. | | According to drawing. | | X | X |
| Marking | | Confirmed visually. | | | | X | X |
| Electric characteristics | | | | | | | |
| Contact resistance | | DC6V MAX, 100mA. (DC or 1000Hz). | | 50mΩ MAX.(DF59-2P-2FC(**)/2SP(**)) 30mΩ MAX.(DF59-2P-2C) | | X | — |
| Insulation resistance | | 500V DC. | | 1000MΩ MIN. | | X | — |
| Voltage proof | | 650V AC FOR 1 min. | | No flashover or breakdown. | | X | — |
| Mechanical characteristics | | | | | | | |
| Mechanical operation | | 30 times insertion and extraction.(DF59-2P-2FC/2C) 10 times insertion and extraction.(DF59-2P-2SP) | | ①50mΩ MAX.(DF59-2P-2FC(**)/2SP(**)) 30mΩ MAX.(DF59-2P-2C) ②No damage, crack or looseness of parts. | | X | — |
| Vibration | | Frequency 10 to 55Hz, single amplitude 0.75mm, at 10cycles for 3direction. | | ①No electrical discontinuity of 1 μ s. ②No damage, crack or looseness of parts. | | X | — |
| Shock | | 490 m/s ² duration of pulse 11 ms at 3 times for 3 directions. | | | | X | — |
| Environmental characteristics | | | | | | | |
| Damp heat (Steady state) | | Exposed at 40 ± 2°C , 90 to 95 %, 96 h. (After leaving the room temperature for 1 - 2h.) | | ①50mΩ MAX.(DF59-2P-2FC(**)/2SP(**)) 30mΩ MAX.(DF59-2P-2C) | | X | — |
| Rapid change of temperature | | Temperature -55°C→ +85°C Time 30min→ 30min Under 5 cycles. (The transferring time of the tank is 2 - 3 min) (After leaving the room temperature for 1 - 2h.) | | ②INSULATION RESISTANCE: 1000MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | | X | — |
| Resistance to soldering heat | | 1)Reflow soldering Number of reflow cycles : 2cycles max. «Reflow area» Duration above 220°C, 60sec. Max. Peak temperature: 250°C, 10sec. Max. «Pre-heat area» Pre-heat temperature:150°C to 180°C Pre-heat time:90sec.to 120sec. 2) Manual soldering Soldering iron temperature :350±10°C, Soldering time : 3sec. No strength on contact. | | No deformation of case of excessive looseness of the terminals. | | X | — |
| Solderability | | Soldering temperature : 245°C Duration of immersion :soldering, for 5sec. | | New uniform coating of solder shall cover minimum of 95% of the surface being immersed. | | X | — |
| Note 1: Include the temperature rising by current. Note 2: No condensing Note 3: Apply to the condition of long term storage for unused products before mounted on PCB. After mounted on PCB, operation temperature and humidity range is applied for interim storage during transportation. | | | | | | | |
| | Count | Description of revisions | | Designed | | Checked | |
|  | 1 | DIS-H-00002838 | | TS. KUMAZAWA | | TS. FUKUSHIMA | |
| Remarks | | | | Approved | | KI. AKIYAMA | |
| | | | | Checked | | OM. MIYAMOTO | |
| | | | | Designed | | KT. ISHII | |
| | | | | Drawn | | KT. ISHII | |
| Unless otherwise specified, refer to IEC60512. | | | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | | Drawing no. | | ELC-330575-51-01 | |
|  | Specification sheet | | | Part no. | | DF59-2S-2V (51) | |
| | Hirose electric co., ltd. | | | Code no. | | CL667-0001-0-51 | |
| | | | | | |  | 1/1 |