

| APPLICABLE STANDARD | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------|------------------------------------------|
| Rating | Operating Temperature Range | -55 °C to 85 °C ⁽¹⁾ | | Storage Temperature Range | -10 °C to 60 °C ⁽²⁾ |
| | Voltage | 50 V AC | | Storage Humidity Range | Relative humidity 85% max (Not dewed) |
| | Current | 0.7 A | | Operating Humidity Range | |
| SPECIFICATIONS | | | | | |
| ITEM | | TEST METHOD | | REQUIREMENTS | QT AT |
| CONSTRUCTION | | | | | |
| General Examination | | Visually and by measuring instrument. | | According to drawing. | × |
| Marking | | Confirmed visually. | | | × |
| ELECTRIC CHARACTERISTICS | | | | | |
| Contact Resistance | | 100 mA(DC or 1000Hz) | | 70mΩ MAX. | × |
| Insulation Resistance | | 100 V DC. | | 100 MΩ MIN. | × |
| Voltage Proof | | 150 V AC for 1 min. | | No flashover or breakdown. | × |
| MECHANICAL CHARACTERISTICS | | | | | |
| Insertion and Withdrawal Forces | | Measured by applicable connector. | | Insertion Force: 62 N MAX. Withdrawal Force: 6.2 N MIN. | × |
| Mechanical Operation | | 50 times insertions and extractions. | | ① Contact Resistance : 80mΩ MAX. ② No damage, crack and looseness of parts. | × |
| Vibration | | Frequency 10 to 55 to 10Hz, approx 5min Single amplitude : 0.75 mm, 10 cycles for 3 axial directions. | | ① No electrical discontinuity of 1 μs. ② No damage, crack and looseness of parts. | × |
| Shock | | 490 m/s ² , duration of pulse 11 ms at 3 times for 3 both axial directions. | | | × |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| Damp Heat (Steady state) | | Exposed at 40±2 °C, 90 ~ 95 %, 96 h. | | ① Contact Resistance : 80mΩ MAX. ② Insulation Resistance:100 MΩ MIN. | × |
| Rapid Change of Temperature | | Temperature -55 → +85 °C Time 30 → 30 min. under 5 cycles. (Relocation time to chamber : within 2~3 MIN) | | ③ No damage, crack and looseness of parts. | × |
| Cold | | Exposed at -55°C, 96 h | | ① Contact Resistance : 80mΩ ② No damage, crack and looseness of parts. | × |
| Dry Heat | | Exposed at 85°C, 96 h | | | × |
| Sulfur Dioxide | | Exposed at 25±2°C, 75±5%RH, 25 PPM for 96 h. (Test standard: JIS C 60068) | | ① No defect such as corrosion which impairs the function of connector. ② Contact Resistance : 80mΩ | × |
| Resistance to Soldering Heat | | 1)Reflow soldering : Peak TMP : 260°C MAX Reflow TMP: 220°C MIN for 60sec 2) Soldering irons : 360°C MAX. for 5 sec. | | No deformation of case of excessive looseness of the terminal. | × |
| Solderability | | Soldered at solder temperature 245±3°C for immersion duration, 3 sec. | | A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed. | × |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| △ | | | | | |
| REMARKS ⁽¹⁾ Include temperature rise caused by current-carrying. ⁽²⁾ "STORAGE" means a long-term storage state for the unused product before assembly to PCB. | | | APPROVED | HS. OKAWA | 14. 09. 30 |
| | | | CHECKED | KN. SHIBUYA | 14. 09. 30 |
| | | | DESIGNED | AH. EDASHIGE | 14. 09. 30 |
| Unless otherwise specified, refer to JIS-C-5402. | | | DRAWN | AH. EDASHIGE | 14. 09. 30 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-352603-00 |
| HRS | SPECIFICATION SHEET | | PART NO. | FX22-80S-0. 5SH | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL572-3103-4-00 | △ 1/1 |

