

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

| APPLICABLE STANDARD | | | | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C ② |
|---|--|---|---------------------|---------------------------|-------------------|
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C ① | | OPERATING HUMIDITY RANGE | 40 % TO 80 % |
| | VOLTAGE | 125 V AC | | STORAGE HUMIDITY RANGE | 40 % TO 70 % ② |
| | CURRENT | 0.5 A | | | |
| SPECIFICATIONS | | | | | |
| ITEM | TEST METHOD | REQUIREMENTS | Q | T | AT |
| CONSTRUCTION | | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | X | X | X |
| MARKING | CONFIRMED VISUALLY. | | X | X | X |
| ELECTRIC CHARACTERISTICS | | | | | |
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). | 45mΩ MAX. | X | | |
| CONTACT RESISTANCE | 20 mV MAX, 1 mA(DC OR 1000Hz) | 55mΩ MAX. | X | | |
| MILLIVOLT LEVEL METHOD | | | | | |
| INSULATION RESISTANCE | 250 V DC. | 100 MΩ MIN. | X | | |
| VOLTAGE PROOF | 300 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | | |
| MECHANICAL CHARACTERISTICS | | | | | |
| MECHANICAL OPERATION | 500 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 55 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, AMPLITUDE: 1.52 mm, AT 2 h FOR 3 DIRECTION. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | | |
| SHOCK | 490 ms 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 ~ 95%, 96 h. | ① CONTACT RESISTANCE: 55 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. | X | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE:55→+15~+35→+85→+15~+35°C TIME 30→10~15→30→10~15 UNDER 5 CYCLES. | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | | |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | ① CONTACT RESISTANCE: 55mΩ MAX. ② NO HEAVY CORROSION. | X | | |
| HYDROGEN SULPHIDE | EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA-38) | | X | | |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING:250 °C MAX, 220 °C MIN, FOR 60 s 2) SOLDERING IRON 360 °C, FOR 5 s | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL. | X | | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE 240±3°C FOR IMMERSION DURATION: 3s. | A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | X | | |
| COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE | |
| REMARK ① TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ② THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. Unless otherwise specified, refer to MIL-STD-1344. | Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | APPROVED | HS. OKAWA | 05.08.06 |
| | | | CHECKED | HS. OZAWA | 05.08.06 |
| | | | DESIGNED | TK. YANAGISAWA | 05.08.04 |
| | | | DRAWN | TK. YANAGISAWA | 05.08.04 |
| SPECIFICATION SHEET | | PART NO. | FX2-**P-0.635SH(71) | | |
| HIROSE ELECTRIC CO., LTD. | | CODE NO. | ELG4-152588-21 | | |



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