

In case of consideration for using Autom otive equipm ent/device which dem and high re liability, kindly contactour sales w indow correspondents.

| APPLICABLE STANDARD | | TEST METHOD | | REQUIREMENTS | | Q/T | AT |
|---|--|---------------------------------------|--|--|----------------|--------------|-----------|
| OPERATING TEMPERATURE RANGE | -55 °C TO 85 °C ⁽¹⁾ | STORAGE TEMPERATURE RANGE | -10 °C TO 60 °C ⁽²⁾ | | | | |
| VOLTAGE | 125 V AC | OPERATING HUMIDITY RANGE | 40 % TO 80 % | | | | |
| CURRENT | 0.5 A | STRA GE HUMIDITY RANGE | 40 % TO 70 % ⁽²⁾ | | | | |
| SPECIFICATIONS | | | | | | | |
| ITEM | | TEST METHOD | | REQUIREMENTS | | Q/T | AT |
| CONSTRUCTION | | VISUALLY AND BY MEASURING INSTRUMENT. | | ACCORDING TO DRAWING. | | X | X |
| MARKING | | CONFIRMED VISUALLY. | | | | X | X |
| ELECTRIC CHARACTERISTICS | | | | | | | |
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). | | 45 m Ω MAX. | | | X | - |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | 20 mV MAX, 1 mA(DC OR 1000Hz) | | 55 m Ω MAX. | | | X | - |
| INSULATION RESISTANCE | 250 V DC | | 100 M Ω 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 m Ω MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X | - |
| VIBRATION | FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.52 mm, AT 2h FOR 3 DIRECTIONS. | | ① NO ELECTRICAL DISCONTINUITY OF 1 μ s. 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 \pm 2 °C, 90 ~ 95 %, 96 h. | | ① CONTACT RESISTANCE: 55 m Ω MAX. ② INSULATION RESISTANCE: 100 M Ω MIN. | | | X | - |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE: -55 \rightarrow +15 \sim +35 \rightarrow +85 \rightarrow +15 \sim +35 \rightarrow C TIME 30 \rightarrow 10 \sim 15 \rightarrow 30 \rightarrow 10 \sim 15 min. 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: 55 m Ω MAX. ② NO HEAVY CORROSION. | | | X | - |
| HYDROGEN SULPHIDE | EXPOSED IN 3 PPM FOR 96h. (TEST STANDARD: JEIDA 38) | | | | | X | - |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING: 250 °C MAX, : 220 °C MIN, FOR 60 s 2) SOLDERING IRONS : 360 °C, FOR 5 s | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | | | X | - |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE: \pm 3°C, FOR IMMERSION DURATION, 3 s. | 240 | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | | | X | - |
| COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE | | | |
| <p>REMARK ⁽¹⁾ TEMPERATURE RISE INCLUDED WHEN ENERGIZED. ⁽²⁾ THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.</p> <p>Unless otherwise specified, refer to MIL-STD-1344.</p> <p>Note QT:Qualification Test AT:Assurance Test X:Applicable Test</p> | | | | | | | |
| <p>HRS</p> <p>SPECIFICATION SHEET</p> <p>HIROSE ELECTRIC CO., LTD.</p> | | PART NO. | DRAWING NO. | | ELC4-150358-21 | | |
| | | CODE NO. | | | | APPROVED | HS. OKAWA |
| | | | | | CHECKED | HS. OZAWA | 06.03.13 |
| | | | | | DESIGNED | KY. NAKAMURA | 06.03.10 |
| | | | | | DRAWN | AK. SUZUKAWA | 06.03.08 |