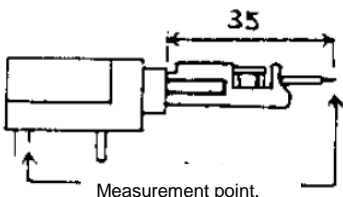


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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| APPLICABLE STANDARD  |  |   |                           |                  |          |
|--|--|---|---------------------------|------------------|----------|
| Rating   | Operating Temperature Range  | -25 °C TO +60 °C (Note 1)   | Storage Temperature Range | - °C TO - °C     |          |
|  | Voltage  | 125 V AC , 175 V DC   | Applicable Wire           |                  |          |
|  | Current  | 0.5 A   |                           |                  |          |
| SPECIFICATIONS   |  |   |                           |                  |          |
| ITEM   | TEST METHOD  | REQUIREMENTS  | QT                        | AT               |          |
| CONSTRUCTION   |  |   |                           |                  |          |
| General Examination  | Visually and by measuring instrument.  | According to drawing.   | X                         | X                |          |
| Marking  | Confirmed visually.  |   | X                         | X                |          |
| ELECTRICAL CHARACTERISTICS   |  |   |                           |                  |          |
| Contact Resistance   | Measured at 1 mA max (DC or 1000 Hz). (Note 2)   | 35 mΩ max.  | X                         | X                |          |
| Insulation Resistance  | 100V DC  | 250 MΩ min.   | X                         | X                |          |
| Voltage Proof  | 300 V AC. for 1 min.   | No flashover or breakdown.  | X                         | X                |          |
| MECHANICAL CHARACTERISTICS   |  |   |                           |                  |          |
| Mating and Unmating Forces   | Measured with an applicable connector.   | Mating force : 15.9 N max.<br>Unmating force : 4.1 N min.   | X                         | —                |          |
| Mechanical Operation   | Mated and unmated 1000 times. (Note 2)   | ① Contact resistance : 35 mΩ max.<br>② No damage, crack and looseness of parts.   | X                         | —                |          |
| Vibration  | Frequency : 10 to 55 Hz, single amplitude 0.75 mm, at 5 min/cycle, 10 cycles.              | ① No electrical discontinuity of 10 μs.<br>② No damage, crack and looseness of parts.   | X                         | —                |          |
| Shock  | 490 m/s <sup>2</sup> duration of pulse 11 ms for 3 times in 3 both axial directions.       |   | X                         | —                |          |
| ENVIRONMENTAL CHARACTERISTICS  |  |   |                           |                  |          |
| Rapid Change of Temperature  | Temperature -55 → 25 → 85 → 25 °C<br>Time 30 → 2 to 3 → 30 → 2 to 3 min<br>Under 5 cycles. | No damage, crack and looseness of parts.  | X                         | —                |          |
| Humidity Life  | Exposed at 40 °C, 90 ~ 95 %, 96 h.   | ① Insulation resistance :<br>1 MΩ min. (at high humidity.)<br>100 MΩ min. (at dry.)<br>② No damage, crack and looseness of parts. | X                         | —                |          |
| Corrosion Salt Mist  | Exposed in 5 % salt water spray for 48 h.  | No heavy corrosion.   | X                         | —                |          |
| Resistance to Soldering Heat   | Solder temperature, 260 ± 5 °C for immersion, duration 10 ± 1 s.                           | No deformation of case and excessive looseness of the terminals.  | X                         | —                |          |
| Solderability  | Soldered at solder temperature, 245 ± 2 °C for immersion, duration 3 ± 1 s.                | Min. 95 % of solder immersed area shall be covered new solder coating.  | X                         | —                |          |
| Lock Strength  | Apply 68.6 N pull force in mating axial direction.   | ① Must be mating during the test.<br>② No abnormality in the engagement part after the test.                                      | X                         | —                |          |
| (Note 1) The operation temperature includes the temperature rise by current carrying.<br>(Note 2) Measurement point. |  |   |                           |                  |          |
|                                   |  |   |                           |                  |          |
|  | COUNT  | DESCRIPTION OF REVISIONS  | DESIGNED                  | CHECKED          | DATE     |
| △  |  |   |                           |                  |          |
| REMARK   |  |   | APPROVED                  | RI. TAKAYASU     | 18.06.06 |
|  |  |   | CHECKED                   | AH. KODAMA       | 18.06.06 |
|  |  |   | DESIGNED                  | MO. SHIMOYAMA    | 18.06.06 |
|  |  |   | DRAWN                     | MO. SHIMOYAMA    | 18.06.06 |
| Unless otherwise specified, refer to IEC 60512.  |  |   |                           |                  |          |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test   |  |   | DRAWING NO.               | ELC-042356-50-01 |          |
| <b>HRS</b>   | SPECIFICATION SHEET  |   | PART NO.                  | 3110-14SC (50)   |          |
|  | HIROSE ELECTRIC CO., LTD.  |   | CODE NO                   | CL231-0012-4-50  | △ 1/1    |