

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

| COUNT | DESCRIPTION OF REVISIONS | BY  | CHKD | DATE     | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|-------|--------------------------|-----|------|----------|-------|--------------------------|----|------|------|
| △ 2   | RE-F-09653               | K.N | H.Y  | 04.04.06 |       |                          |    |      |      |
| △ 1   | RE-F-10251               | K.D | H.O  | 05.02.02 |       |                          |    |      |      |

  

|                     |  |                             |  |                          |                           |              |                 |
|---------------------|--|-----------------------------|--|--------------------------|---------------------------|--------------|-----------------|
| APPLICABLE STANDARD |  | OPERATING TEMPERATURE RANGE |  | -55 °C TO 85 °C          | STORAGE TEMPERATURE RANGE |              | -10 °C TO 60 °C |
| RATING VOLTAGE      |  | 100 V AC                    |  | OPERATING HUMIDITY RANGE |                           | 40 % TO 80 % |                 |
| CURRENT             |  | 0.4 A                       |  | STORAGE HUMIDITY RANGE   |                           | 40 % TO 70 % |                 |

  

| ITEM                                      | TEST METHOD  | REQUIREMENTS  | QT | AT |
|---|--|---|----|----|
| <b>CONSTRUCTION</b>                       |  |   |    |    |
| GENERAL EXAMINATION                       | VISUALLY AND BY MEASURING INSTRUMENT.  | ACCORDING TO DRAWING.   | ×  | ×  |
| MARKING                                   | CONFIRMED VISUALLY.  |   | ×  | ×  |
| <b>ELECTRIC CHARACTERISTICS</b>           |  |   |    |    |
| CONTACT RESISTANCE                        | 100 mA (DC OR 1000 Hz).  | 80 mΩ MAX. (1)  | ×  |    |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | 20 mV MAX. 1 mA(DC OR 1000Hz)  | 100 mΩ MAX. (2)   | ×  |    |
| INSULATION RESISTANCE                     | 250 V DC.  | 100 MΩ MIN.   | ×  |    |
| VOLTAGE PROOF                             | 300 V AC FOR 1 min.  | NO FLASHOVER OR BREAKDOWN.  | ×  |    |
| <b>MECHANICAL CHARACTERISTICS</b>         |  |   |    |    |
| MECHANICAL OPERATION                      | 50 TIMES INSERTIONS AND EXTRACTIONS.   | ① CONTACT RESISTANCE: 100 mΩ MAX. (2)<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | ×  |    |
| VIBRATION                                 | FREQUENCY 10 TO 55 Hz.<br>AMPLITUDE : 1.5 mm,<br>AT 2 h FOR 3 DIRECTION.                                 | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② CONTACT RESISTANCE: 100 mΩ MAX. (2)<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | ×  |    |
| SHOCK                                     | 490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.                           | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  | ×  |    |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>      |  |   |    |    |
| DAMP HEAT (STEADY STATE)                  | EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.   | ① CONTACT RESISTANCE: 100 mΩ MAX. (2)<br>② INSULATION RESISTANCE: 100 MΩ MIN.   | ×  |    |
| RAPID CHANGE OF TEMPERATURE               | TEMPERATURE -55→+15→+35→+85→+15→+35°C<br>TIME 30 → 2~3 → 30 → 2~3 min<br>UNDER 5 CYCLES.                 | ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.  | ×  |    |
| CORROSION SALT MIST                       | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  | ① CONTACT RESISTANCE: 100 mΩ MAX. (2)<br>② NO HEAVY CORROSION.  | ×  |    |
| HYDROGEN SULPHIDE                         | EXPOSED IN 3 PPM FOR 96 h.<br>(TEST STANDARD: JEIDA-38)  |   | ×  |    |
| RESISTANCE TO SOLDERING HEAT              | 1) REFLOW SOLDERING: 250 °C MAX.<br>: 220 °C MIN,<br>FOR 60 s<br>2) SOLDERING IRONS : 360 °C,<br>FOR 5 s | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.   | ×  |    |
| SOLDERABILITY                             | △ SOLDERED AT SOLDER TEMPERATURE, 240 ± 3°C,<br>FOR IMMERSION DURATION, 3 s.                             | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.                                 | ×  |    |

  

|  |   |          |            |          |            |          |         |          |             |          |
|--|---|----------|------------|----------|------------|----------|---------|----------|-------------|----------|
| REMARKS  | (1) THIS CONNECTOR'S INITIAL CONTACT RESISTANCE SHALL BE 80 mΩ, BECAUSE OF THE BULK RESISTANCE OF STACKING HEIGHT 16 mm TYPE.<br>(2) AFTER TEST, THE CHANCE OF THE CONTACT RESISTANCE SHALL BE 20 mΩ MAX. | DRAWN    | S.S.SUZUKI | DESIGNED | K.NAKAMURA | CHECKED  | H.OKAWA | APPROVED | Y.YOSHIMURA | RELEASED |
| Unless otherwise specified, refer to JIS C 5402. |   | 03.02.13 | 03.02.13   | 03.02.13 | 03.02.14   | 03.02.15 |         |          |             |          |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

  

|               |                           |                     |          |
|---------------|---------------------------|---------------------|----------|
| <b>HRS</b>    | HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET | PART NO. |
| CODE NO.(OLD) | DRAWING NO.               | ELC4 - 151087-22    | CODE NO. |
| CL            |                           |                     | CL 578   |

  

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FORM No.231-1