

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

| APPLICABLE STANDARD |  | SPECIFICATIONS                                       |  |
|---------------------|--|--|--|
| <b>RATING</b>       | VOLTAGE<br>250 V AC (DC)                                 | CURRENT<br>3 A                                       |  |
|                     | OPERATING TEMPERATURE RANGE<br>-35 °C TO +85 °C(NOTES 1) | STORAGE TEMPERATURE RANGE<br>-10°C TO +60 °C(NOTE 3) |  |
|                     | OPERATING HUMIDITY RANGE<br>40% TO + 80%(NOTE 2)         | STORAGE HUMIDITY RANGE<br>40% TO + 70%(NOTE 3)       |  |
|                     | APPLICABLE CABLE<br>UL1007,1061 : 20-22 AWG              | APPLICABLE CONNECTOR<br>DF1E-*S-2.5C                 |  |

| ITEM                | TEST METHOD                           | REQUIREMENTS          |    |
|---------------------|---------------------------------------|-----------------------|----|
|                     |                                       | QT                    | AT |
| <b>CONSTRUCTION</b> |                                       |                       |    |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | X  |
| MARKING             | CONFIRMED VISUALLY.                   |                       | X  |

| ELECTRIC CHARACTERISTICS |                                | ELECTRIC CHARACTERISTICS |   |
|--------------------------|--------------------------------|--------------------------|---|
| CONTACT RESISTANCE       | 20 mV MAX. 1mA (DC OR 1000Hz). | 30 mΩ MAX.               | X |
| MILLIVOLT LEVEL METHOD   |                                |                          | - |

| MECHANICAL CHARACTERISTICS             |  | MECHANICAL CHARACTERISTICS  |   |
|--|--|---|---|
| CONTACT INSERTION AND EXTRACTION FORCE | □0.635±0.002mm BY STEEL GAUGE.   | INSERTION FORCE : 4.4 N MAX.<br>EXTRACTION FORCE : 0.29 N MIN.                      | X |
| MECHANICAL OPERATION                   | 50 TIMES INSERTIONS AND EXTRACTIONS.                                       | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.       | X |
| VIBRATION                              | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X |
| SHOCK                                  | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.  |   | - |

| ENVIRONMENTAL CHARACTERISTICS |  |   |   |
|-------------------------------|--|---|---|
| RAPID CHANGE OF TEMPERATURE   | TEMPERATURE -55→-5 TO 35→+85→5 TO35 °C<br>TIME 30 →5 →30 →5 min<br>UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X |
| DAMP HEAT (STEADY STATE)      | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.  | ① CONTACT RESISTANCE: 30 mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X |

**REMARKS**  
 NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT  
 NOTE 2:NO CONDENSING.  
 NOTE 3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD. AFTER PCB BOARD, OPERATINGTEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.

| △ | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED      | DATE     |
|---|-------|--------------------------|----------|--------------|----------|
|   |       |                          |          |              |          |
|   |       |                          | APPROVED | KI. AKIYAMA  | 12.10.11 |
|   |       |                          | CHECKED  | HK. UMEHARA  | 12.10.11 |
|   |       |                          | DESIGNED | HT. SATO     | 12.10.11 |
|   |       |                          | DRAWN    | MI. SAKIMURA | 12.10.10 |

Unless otherwise specified, refer to JIS C 5402.

|      |   |             |                |
|------|---|-------------|----------------|
| Note | QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC4-162826-01 |
|------|---|-------------|----------------|

|            |                           |          |                 |
|------------|---------------------------|----------|-----------------|
| <b>HRS</b> | SPECIFICATION SHEET       | PART NO. | DF1E-2022SCFA   |
|            | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL541-1001-5-00 |