

| APPLICABLE STANDARD |                             |                          |                           |                                 |
|---------------------|-----------------------------|--------------------------|---------------------------|---------------------------------|
| RATING              | OPERATING TEMPERATURE RANGE | -35°C TO +85°C (NOTES 1) | STORAGE TEMPERATURE RANGE | -10°C TO +60°C (NOTE3)          |
|                     | OPERATING HUMIDITY RANGE    | 20 % TO 80 % (NOTES 2)   | STORAGE HUMIDITY RANGE    | 40 % TO 70 % (NOTE3)            |
|                     | VOLTAGE                     | 150 V AC (DC)            | CURRENT                   | 1 A                             |
|                     | APPLICABLE CONNECTOR        | DF13-*S-1.25C            | APPLICABLE CONTACT        | DF13(G)-2630SCF<br>DF13-3032SCF |

### SPECIFICATIONS

| ITEM                                 | TEST METHOD  | REQUIREMENTS   | QT | AT |
|--------------------------------------|--|--|----|----|
| <b>CONSTRUCTION</b>                  |  |  |    |    |
| GENERAL EXAMINATION                  | VISUALLY AND BY MEASURING INSTRUMENT.  | ACCORDING TO DRAWING.  | X  | X  |
| MARKING                              | CONFIRMED VISUALLY.  |  | X  | X  |
| <b>ELECTRIC CHARACTERISTICS</b>      |  |  |    |    |
| CONTACT RESISTANCE                   | 100 m A (DC OR 1000 Hz).   | 30 mΩ MAX.   | X  | -  |
| INSULATION RESISTANCE                | 100 V DC.  | 500 MΩ MIN.  | X  | -  |
| VOLTAGE PROOF                        | 500 V AC FOR 1 min.  | NO FLASHOVER OR BREAKDOWN.   | X  | -  |
| <b>MECHANICAL CHARACTERISTICS</b>    |  |  |    |    |
| MECHANICAL OPERATION                 | 30 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 1μs.<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.  |  | X  | -  |
| <b>ENVIRONMENTAL CHARACTERISTICS</b> |  |  |    |    |
| RAPID CHANGE OF TEMPERATURE          | TEMPERATURE -55→ 15 TO 35→+85→ 15 TO 35 °C<br>TIME 30→ 2 TO 3→30→ 2 TO 3 min.<br>UNDER 5 CYCLES.   | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② INSULATION RESISTANCE: 500 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X  | -  |
| DAMP HEAT (STEADY STATE)             | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.  |  | X  | -  |
| RESISTANCE TO SOLDERING HEAT         | 1) REFLOW SOLDERING<br>« REFLOW AREA »<br>250°C MAX 10 sec MAX<br>230°C MIN 60 sec MAX<br>« PREHEATING AREA »<br>170°C TO 190°C 60 sec TO 120 sec<br>PUT THROUGH IN REFLOW FURNACE TWICE,<br>LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR.<br>2) MANUAL SOLDERING<br>SOLDERING IRON TEMPERATURE :350°C,<br>SOLDERING TIME : 3sec.<br>NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.  | X  | -  |
| SOLDERABILITY                        | SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 3sec.  | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.   | X  | -  |

**REMARKS**

NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT

NOTE2:NO CONDENSING

NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD,

AFTER PCB BOARD , OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.

Unless otherwise specified, refer to JIS C 5402.

| COUNT  | DESCRIPTION OF REVISIONS  | DESIGNED    | CHECKED       | DATE                 |
|--|---------------------------|-------------|---------------|----------------------|
| △  |                           |             |               |                      |
|  |                           | APPROVED    | TS. SAKATA    | 09. 11. 04           |
|  |                           | CHECKED     | TS. FUKUSHIMA | 09. 11. 04           |
|  |                           | DESIGNED    | KT. ISHII     | 09. 11. 01           |
|  |                           | DRAWN       | KT. ISHII     | 09. 11. 01           |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                           | DRAWING NO. |               | ELC4-083672-05       |
| <b>HRS</b>   | SPECIFICATION SHEET       |             | PART NO.      | DF13C-*P-1. 25V (21) |
|  | HIROSE ELECTRIC CO., LTD. |             | CODE NO.      | CL536 △ 1/1          |