

| 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 |                |
| <b>SPECIFICATIONS</b>  |  |  |                           |                                 |                |
| 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,<br>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          |