

| 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)-2630SCFA<br>DF13-3032SCFA |

### 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 |

#### ELECTRIC CHARACTERISTICS

|                       |                          |                            |   |   |
|-----------------------|--------------------------|----------------------------|---|---|
| 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 | - |

#### MECHANICAL CHARACTERISTICS

|                      |  |  |   |   |
|----------------------|--|--|---|---|
| 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 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 | - |

#### ENVIRONMENTAL CHARACTERISTICS

|                              |  |  |   |   |
|------------------------------|--|--|---|---|
| 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) FLOW SOLDERING 250°C, FOR 10 sec.<br>2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE :300°C, SOLDERING TIME : 3sec.<br>NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.  | X | - |
| SOLDERABILITY                | SOLDERED AT SOLDER TEMPERATURE, 240°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    | 09.12.07 |
|  | CHECKED  | TS. FUKUSHIMA | 09.12.07 |
|  | DESIGNED | KT. ISHII     | 09.12.05 |
|  | DRAWN    | KT. ISHII     | 09.12.05 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test      DRAWING NO.      ELC4-083673-09

|            |                           |          |                       |       |
|------------|---------------------------|----------|-----------------------|-------|
| <b>HRS</b> | SPECIFICATION SHEET       | PART NO. | DF13-*P-1. 25DSA (50) |       |
|            | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL536                 | △ 1/1 |