

|                     |                             |                           |                           |                         |
|---------------------|-----------------------------|---------------------------|---------------------------|-------------------------|
| APPLICABLE STANDARD |                             |                           |                           |                         |
| RATING              | OPERATING TEMPERATURE RANGE | -45°C TO +125°C (NOTES 1) | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C (NOTE2) |
|                     | VOLTAGE                     | 150V AC                   | APPLICABLE CONNECTOR      | DF9#-*S-1V (69)         |
|                     | CURRENT                     | 0.5A                      |                           |                         |

### 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    | 100m A (DC OR 1000 Hz). | 50mΩ MAX.                  | X | - |
| INSULATION RESISTANCE | 100V DC.                | 500MΩ MIN.                 | X | - |
| VOLTAGE PROOF         | 250V AC FOR 1 min.      | NO FLASHOVER OR BREAKDOWN. | X | - |

#### MECHANICAL CHARACTERISTICS

|                      |  |  |   |   |
|----------------------|--|--|---|---|
| MECHANICAL OPERATION | 100TIMES INSERTIONS AND EXTRACTIONS.                                       | ① CONTACT RESISTANCE: 50mΩ 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.  | ① NO ELECTRICAL DISCONTINUITY OF 1μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |

#### ENVIRONMENTAL CHARACTERISTICS

|                              |   |  |   |   |
|------------------------------|---|--|---|---|
| RAPID CHANGE OF TEMPERATURE  | TEMPERATURE -65→ 5 TO 35→125→ 5 TO 35°C<br>TIME 30→10 TO 15→ 30→10TO15min<br>UNDER 5 CYCLES.  | ① CONTACT RESISTANCE: 50mΩ 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.   | ① CONTACT RESISTANCE: 50mΩ MAX.<br>② INSULATION RESISTANCE: 500 MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| CORROSION SALT MIST          | EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.  | ① CONTACT RESISTANCE: 50 mΩ MAX.<br>② NO HEAVY CORROSION.  | X | - |
| SULPHUR DIOXIDE              | EXPOSED IN 10 PPM FOR 96 h.<br>(TEST STANDARD:JEIDA-39)   | ① CONTACT RESISTANCE: 50 mΩ MAX.<br>② NO HEAVY CORROSION.  | X | - |
| HEAT RESISTANCE OF SOLDERING | [RECOMMENDED TEMPERATURE PROFILE]<br>《SOLDERING AREA》<br>MAX250°C, 220°C FOR 60 SECONDS MAX.<br>《PREHEATING AREA》<br>150 TO 180°C 90~120 SECONDS.<br>MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION.<br>[RECOMMENDED MANUAL SOLDELING CONDITION ]<br>SOLDERING IRON TEMPERATURE 380°C<br>SOLDERING TIME : WITHIN 3 SECONDS. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.  | X | - |
| SOLDERABILITY                | SOLDERING TEMPARATURE:245±5°C<br>DURATION OF IMMERSION :<br>SOLDERING FOR 3SECONDS  | A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSED.                            | X | - |

#### REMARKS

NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.  
NOTE2:STORAGEIS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS.  
APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPPLY.  
UNLESS OTHERWISE SPECIFIED , REFER TO JIS C 5402 .

| COUNT | DESCRIPTION OF REVISIONS | DESIGNED     | CHECKED     | DATE     |
|-------|--------------------------|--------------|-------------|----------|
| 1     | DIS-H-001224             | AR.TAKAHASHI | TS.MIYAZAKI | 06.08.01 |
|       |                          | APPROVED     | TY.OMA      | 04.04.06 |
|       |                          | CHECKED      | TY.OMA      | 04.04.06 |
|       |                          | DESIGNED     | HK.UMEHARA  | 04.04.02 |
|       |                          | DRAWN        | MY.NAKAMOTO | 04.04.02 |

|      |   |             |                 |       |
|------|---|-------------|-----------------|-------|
| Note | QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC4-160018-13  |       |
|      | SPECIFICATION SHEET                                       | PART NO.    | DF9B-*P-1V (69) |       |
|      | HIROSE ELECTRIC CO., LTD.                                 | CODE NO.    | CL540           | △ 1/1 |

