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

| 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#－*P－1V(22) |
| | CURRENT | 0.5A | | DF9#－*P－1V(32) |

# 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 | 30TIMES 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 $m/s^2$ 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 | — |
| HEAT RESISTANCE OF SOLDERING | 【RECOMMENDED TEMPERATURE PROFILE】<br>《SOLDERING AREA》<br>MAX250℃, 220℃ FOR 60 SECONDS MAX.<br>《PREHEATING AREA》<br>150 TO 180℃ 90～120 SECONDS.<br>MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION.<br>【RECOMMENDED MANUAL SOLDELING CONDITION 】<br>SOLDERING IRON TEMPERATURE 380℃<br>SOLDERING TIME : WITHIN 3 SECONDS. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | — |
| SOLDERABILITY | SOLDERING TEMPARATURE:245±5℃<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 | — |
| ⚠1 | | | | |

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 SUPLLY.

UNLESS OTHERWISE SPECIFIED , REFER TO JIS C 5402 .

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| ⚠1 | 1 | DIS-H-001214 | AR. TAKAHASHI | TS. MIYAZAKI | 06. 08. 02 |

| | | |
|---|---|---|
| APPROVED | MO. NAKAMURA | 05. 10. 31 |
| CHECKED | TS. MIYAZAKI | 05. 10. 31 |
| DESIGNED | TY. 001 | 05. 10. 31 |
| DRAWN | HK. MURAKAMI | 05. 10. 31 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-162417-04

| | | | |
|---|---|---|---|
| SPECIFICATION SHEET | PART NO. | DF9A-*S-1V(22) | |
| HIROSE ELECTRIC CO., LTD. | CODE NO. | CL540 ⚠1 | 1/1 |

FORM HD0011-2-1