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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 | -30°C TO 85°C(NOTE 1) | STORAGE TEMPERATURE RANGE | -10°C TO 60°C(NOTE 2) | |
| | OPERATING HUMIDITY RANGE | 40% TO 80% | STORAGE HUMIDITY RANGE | 40% TO 70%(NOTE 2) | |
| | VOLTAGE | AC 250V | UL・CSA RATING | VOLTAGE | AC 30V |
| | CURRENT | AWG 22 TO 26 : 2A<br>AWG 28 : 1A<br>AWG 30 : 0.5A | | CURRENT | AWG 22 : 2A<br>AWG 24 TO 28 : 1A<br>AWG 30 : 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 | 100 mA (DC OR 1000 Hz). | 30 mΩ MAX. | X | — |
| INSULATION RESISTANCE | 500 V DC. | 1000 MΩ MIN. | X | — |
| VOLTAGE PROOF | 650 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | — |
| **MECHANICAL CHARACTERISTICS** | | | | |
| MECHANICAL OPERATION | 30 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 30mΩ 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. | | X | – |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→ 5 TO 35→+85→ 5 TO 35 °C<br>TIME 30→ 5 TO 15→ 30→ 5 TO15 min<br>UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② INSULATION RESISTANCE: 1000MΩ 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: 30mΩ MAX.<br>② INSULATION RESISTANCE: 500MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | – |
| RESISTANCE TO SOLDERING HEAT | 1) AUTOMATIC SOLDERING (REFLOW)<br>《REFLOW AREA》<br>MAX 240℃ WITHIN 10 sec.<br>MIN 220℃ WITHIN 30sec.<br>《PREHEATING AREA》<br>150℃ 100 TO 120 sec.<br>PUT THROUGH IN REFROW FURNACE TWICE. FEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNEVCTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW.<br>2) MANUAL SOLDERING<br>SOLDERING IRON TEMPERATURE :290±10℃,<br>SOLDERING TIME :3s.<br>NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | – |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 230±5°C FOR IN IMMERSION , DURATION, 3 s. | A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | X | – |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| ⚠0 | | | | | |

REMARKS
NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT.
NOTE 2: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 INTERM STORAGE DURING TRANSPORTATION.
Unless otherwise specifid , refer to JIS C 5402.

| | | |
|---|---|---|
| APPROVED | TS. SAKATA | 08. 12. 16 |
| CHECKED | TS. KUMAZAWA | 08. 12. 15 |
| DESIGNED | KT. ISHII | 08. 12. 15 |
| DRAWN | KT. ISHII | 08. 12. 15 |

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

DRAWING NO. ELC4-162217-01

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|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | DF11G-8DP-2V(50) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL543-0812-5-50 ⚠0 | 1/1 |

FORM HD0011-2-1