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| APPLICABLE STANDARD | | | | | |
|---|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | -40°C TO + 85°C (NOTE 1) △3 | 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 | 250V AC | UL・CSA RATING | VOLTAGE | 30V AC |
| | 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 | 100mA (DC OR 1000 Hz). | 30mΩ MAX. | X | — |
| INSULATION RESISTANCE | 500V DC. | 1000MΩ MIN. | X | — |
| VOLTAGE PROOF | 650V 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 | – |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| △3 | 1 | DIS-H-008540 | MI. SAKIMURA | HK. UMEHARA | 14. 02. 26 |

| | | |
|---|---|---|
| APPROVED | TY. OMA | 06. 04. 06 |
| CHECKED | HK. UMEHARA | 06. 04. 06 |
| DESIGNED | NS. HIROSE | 06. 04. 06 |
| DRAWN | AK. MIURA | 06. 02. 22 |

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

DRAWING NO. ELC4-307176-02

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | DF11CZ-*DP-2V(27) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL543 △3 | 1/2 |

FORM HD0011-2-1

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# SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|---|---|---|---|---|
| RESISTANCE TO SOLDERING HEAT | 1) AUTOMATIC SOLDERING (REFLOW)<br>《REFLOW AREA》<br>MAX 250℃ WITHIN 10 sec.<br>MIN 230℃ WITHIN 60 sec.<br>《PREHEATING AREA》<br>150 TO 180℃ 90 TO 120 sec.<br>PUT THROUGH IN REFROW FUMACE 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℃ FOR IN IMMERSION , DURATION, 3 s. | A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | X | – |
| | | | | |

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.
NOTE 3:THE TEMPERATURE PROFILE SHALL BE APPLIED WITHIN 168 HOURS AFTER OPENING MOISTURE-PROOF PACKAGING. WHEN 168 HOURS PASSED AFTER OPENING , APPLY THE BOTTOM REQUIREMENTS.
《REFLOW AREA》
MAX 240℃ WITHIN 10 sec.
MIN 230℃ WITHIN 60 sec.
《PREHEATING AREA》
150 TO 180℃ 90 TO 120 s.

Unless otherwise specifid , refer to IEC 60512.

| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | ELC4-307176-02 | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | DF11CZ-*DP-2V(27) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO | CL543 | ③ 2/2 |

FORM HD0011-2-2