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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 | VOLTAGE | AC 30V | | |
| | CURRENT | AWG 22 TO 26 : 2A AWG 28 : 1A AWG 30 : 0.5A | CURRENT | AWG 22 : 2A AWG 24 TO 28 : 1A 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. 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. 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. | | | | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55 → 5 TO 35 → +85 → 5 TO 35 °C TIME 30 → 5 TO 15 → 30 → 5 TO 15 min UNDER 5 CYCLES. | | ① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000MΩ MIN. 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. ② INSULATION RESISTANCE: 500MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| RESISTANCE TO SOLDERING HEAT  | | 1) AUTOMATIC SOLDERING (REFLOW) «REFLOW AREA» MAX 240°C WITHIN 10 sec. MIN 220°C WITHIN 60sec. «PREHEATING AREA» 150 TO 180°C 90 TO 120 sec. PUT THROUGH IN REFLOW FURNACE TWICE. FEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNEVCTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE :290 ± 10°C, SOLDERING TIME :3s. 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 | |
|  | 1 | DIS-H-001311 | AK.MIURA | TS.SAKATA | 06.09.08 | |
| REMARKS | | | | APPROVED | TS.MIYAZAKI | 05.02.14 |
| NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT. | | | | CHECKED | HK.UMEHARA | 05.02.08 |
| 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. | | | | DESIGNED | IO.DENPOUYA | 05.01.28 |
| Unless otherwise specifid , refer to JIS C 5402. | | | | DRAWN | FK.MATSUKI | 05.01.24 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-306016-01 | |
|  | SPECIFICATION SHEET | | PART NO. | DF11GZ-*DP-2V (20) | | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL543 |  | 1/1 |