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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 | -40°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 | 250V AC | | UL • CSA RATING | VOLTAGE | 30V AC | |
| | 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 | 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 | 50 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. | | | | X | - | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | |
| 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 | - | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→5 TO 35→+85 →5 TO 35 °C TIME 30→10 TO 15 →30 →10 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 | - | |
| | | | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | | DESIGNED | CHECKED | | DATE |
| | 2 | DIS-H-008928 | | HT. SATO | TS. FUKUSHIMA | | 14. 07. 16 |
| | | | | APPROVED | TS. SAKATA | 08. 04. 01 | |
| | | | | CHECKED | TS. KUMAZAWA | 08. 04. 01 | |
| | | | | DESIGNED | KT. ISHII | 08. 04. 01 | |
| | | | | DRAWN | YK. NAKATSU | 08. 03. 13 | |
| Note | QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | ELC4-163554-05 | | |
| | SPECIFICATION SHEET | | | PART NO. | DF11C-*DP-2V (57) | | |
| | HIROSE ELECTRIC CO., LTD. | | | CODE NO. | CL543 | | 1/2 |

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| SPECIFICATIONS | | | | | |
|--|--|--|-------------|-------------------|---|
| ITEM | TEST METHOD | REQUIREMENTS | QT | AT | |
| RESISTANCE TO SOLDERING HEAT | 1) AUTOMATIC SOLDERING (REFLOW) 《REFLOW AREA》 MAX 250°C WITHIN 10 sec. MIN 230°C WITHIN 60 sec. 《PREHEATING AREA》 150 TO 180°C 90 TO 120 sec. PUT THROUGH IN REFLOW FURNACE TWICE. LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNECTOR 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 | — | |
| 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°C WITHIN 10 sec. MIN 230°C WITHIN 60 sec. 《PREHEATING AREA》 150 TO 180°C 90 TO 120 s. | | | | | |
| Unless otherwise specified , refer to IEC 60512  | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-163554-05 |
|  | SPECIFICATION SHEET | | PART NO. | DF11C-*DP-2V (57) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO | CL543 |  2/2 |