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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  | 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          | 50 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 <sup>2</sup> 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.<br>② INSULATION RESISTANCE: 500MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.  |                        | X   | —  |
| RAPID CHANGE OF TEMPERATURE   | TEMPERATURE -55→5 TO 35→+85 →5 TO 35 °C<br>TIME 30→10 TO 15 →30 →10 TO 15 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   | —  |
|                               |  |   |          |  |                        |   |    |
|                               | COUNT  | DESCRIPTION OF REVISIONS                          | DESIGNED | CHECKED  | DATE                   |   |    |
|                               | △  |   |          |  |                        |   |    |
|                               |  |   |          | APPROVED   | TS. SAKATA             | 08.12.04  |    |
|                               |  |   |          | CHECKED  | TS. KUMAZAWA           | 08.12.03  |    |
|                               |  |   |          | DESIGNED   | KT. ISHII              | 08.12.03  |    |
|                               |  |   |          | DRAWN  | KT. ISHII              | 08.12.03  |    |
| Note                          | QT:Qualification Test AT:Assurance Test X:Applicable Test  |   |          | DRAWING NO.  | ELC4-161191-01         |   |    |
| <b>HRS</b>                    | SPECIFICATION SHEET  |   | PART NO. | DF11C-8DP-2V (57)  |                        |   |    |
|                               | HIROSE ELECTRIC CO., LTD.  |   | CODE NO. | CL543-0684-7-57  | △                      | 1/2   |    |

| SPECIFICATIONS   |  |  |             |                   |   |
|--|--|--|-------------|-------------------|---|
| ITEM   | TEST METHOD  | REQUIREMENTS   | QT          | AT                |   |
| RESISTANCE TO SOLDERING HEAT   | 1) AUTOMATIC SOLDERING (REFLOW)<br>《REFLOW AREA》<br>MAX 250°C WITHIN 10 sec.<br>MIN 230°C WITHIN 60 sec.<br>《PREHEATING AREA》<br>150 TO 180°C 90 TO 120 sec.<br>PUT THROUGH IN REFLOW FURNACE TWICE.<br>LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW.<br>2) MANUAL SOLDERING<br>SOLDERING IRON TEMPERATURE :290±10°C,<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           | —                 |   |
| REMARKS<br>NOTE 1:INCLUDING THE TEMPERATURE RISE BY CURRENT.<br>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.<br>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.<br>《REFLOW AREA》<br>MAX 240°C WITHIN 10 sec.<br>MIN 230°C WITHIN 60 sec.<br>《PREHEATING AREA》<br>150 TO 180°C 90 TO 120 s. |  |  |             |                   |   |
| Unless otherwise specified , refer to JIS C 5402.  |  |  |             |                   |   |
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| <b>HRS</b>   | SPECIFICATION SHEET  |  | PART NO.    | DF11C-8DP-2V (57) |   |
|  | HIROSE ELECTRIC CO., LTD.  |  | CODE NO     | CL543-0684-7-57   |  2/2 |