

| APPLICABLE STANDARD | | | | |
|---------------------|-----------------------------|--|---------------------------|--|
| RATING | OPERATING TEMPERATURE RANGE | -35°C TO + 85°C (NOTE 1) | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C (NOTE3) |
| | OPERATING HUMIDITY RANGE | 20 % TO 80 % (NOTE2) | STORAGE HUMIDITY RANGE | 40 % TO 70 % (NOTE3) |
| | VOLTAGE | AC/DC 100V | APPLICABLE CONNECTOR | DF50 (S) -*DS-1C (##) |
| | CURRENT | AWG 28 : 1.0 A AWG 30 : 0.9 A AWG 32 : 0.7 A | APPLICABLE CONTACT | DF50-2830SCFA DF50K-2830SCFA DF50-3032SCFA |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
|------|-------------|--------------|----|----|

CONSTRUCTION

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| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | X | X |
| MARKING | CONFIRMED VISUALLY. | | X | X |

ELECTRIC CHARACTERISTICS

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|-----------------------|----------------------------------|----------------------------|---|---|
| CONTACT RESISTANCE | AC 20mV MAX 1mA (DC OR 1000 Hz). | 30mΩ MAX. | X | - |
| INSULATION RESISTANCE | 100V DC. | 500MΩ MIN. | X | - |
| VOLTAGE PROOF | 300V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | - |

MECHANICAL CHARACTERISTICS

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| MECHANICAL OPERATION | 30TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 50mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLE FOR EACH, 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

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| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | ① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 100MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→+85°C TIME 30→ 30min. UNDER 5 CYCLES. THE TRANSFERRING TIME OF THE TANK IS 2~3 min. | ① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 500MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |


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| COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|-------|--------------------------|----------|---------|------|
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| | APPROVED | KI. AKIYAMA | 13. 07. 31 |
| | CHECKED | HK. UMEHARA | 13. 07. 31 |
| | DESIGNED | YK. YAMAGUCHI | 13. 07. 31 |
| | DRAWN | YK. YAMAGUCHI | 13. 07. 31 |

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| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC4-326227-01 |
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| HRS | SPECIFICATION SHEET | PART NO. | DF50-*DP-1V (61) |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL665- △ 1/2 |

| SPECIFICATIONS | | | | |
|--|--|--|----------|--|
| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 5 sec. | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | X | — |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING 《REFLOW AREA》 MAX250°C WITHIN 10 sec MIN 220°C WITHIN 60 sec 《PREHEATING AREA》 150~180°C 90~120s 2) MANUAL SOLDERING SOLDERING IPON TEMPERATURE 350±10°C SOLDERING TIME 3~4s. NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | — |
| | | | | |
| REMARKS NOTE 1: INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTE 2: NON-CONDENSING NOTE 3: 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 INTERIM STORAGE DURING TRANSPORTATION | | | | |
| Unless otherwise specifid , refer to JIS C 5402. | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | | ELC4-326227-01 |
| HRS | SPECIFICATION SHEET | | PART NO. | DF50-*DP-1V(61) |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO | CL665-  2/2 |