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| 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 | 40% TO 80% (NOTE2) | STORAGE HUMIDITY TANGE | 40% TO 70% (NOTE3) | |
| | VOLTAGE | 100 V AC (DC) | APPL ICABLE CONNECTOR | DF19 (G) -**S-1# (NOTE4)  | |
| | CURRENT | AWG28: 1A AWG30: 0. 9A AWG32: 0. 8A | | | |
| 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 | | AC 20mV MAX 1mA (DC OR 1000 Hz). | 30 mΩ MAX. | X | — |
| INSULATION RESISTANCE | | 100 V DC. | 500 MΩ MIN. | X | — |
| VOLTAGE PROOF | | 300 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | — |
| MECHANICAL CHARACTERISTICS | | | | | |
| MECHANICAL OPERATION | | 30 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 30 mΩ 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 1 μs. 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 TIME 30→2 TO 3 → 30 →2 TO 3 min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | — |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | | X | — |
| RESISTANCE TO SOLDERING HEAT | | (1) REFLOW SOLDERING «REFLOW AREA» MAX 250°C WITHIN 10 sec MIN 230°C WITHIN 60 sec «PREHEATING AREA» 170°C TO 190 °C 60sec TO 120sec PUT THROUGH IN REFLOW FUMACE TWICE. LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR (2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE 350±5 °C, FOR 5 ±1 sec NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | — |
| SOLDERABILITY | | SOLDERING TEMPERATURE : 245°C DURATION OF IMMERSION : SOLDERING, FOR 5 sec | A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | X | — |
| REMARKS | | | | | |
| NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTE2:NO CONDENSING NOTE3:APPLY TO THE CONDITION OF LONGTERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD, AFTER PCB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION. NOTE4:#=TERMINATION STYLE MARKING. (C:CRIMP SOCKET,F:FPC SOCKET,SD:SOCKET FOR FINE COAXIAL CABLES) | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|  | 1 | DIS-H-004462 | YK. NAKATSU | TS. FUKUSHIMA | 10. 01. 08 |
| Unless otherwise specified, refer to JIS C 5402. | | | APPROVED | TS. SAKATA | 09. 03. 02 |
| | | | CHECKED | TS. KUMAZAWA | 09. 03. 02 |
| | | | DESIGNED | SN. KOBAYASHI | 09. 02. 26 |
| | | | DRAWN | SN. KOBAYASHI | 09. 02. 26 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC4-302815-02 |
|  | SPECIFICATION SHEET | | PART NO. | DF19K-**P-1H (54) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL685- |  1/1 |