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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 | -35°C TO +85 °C(NOTE 1) | STORAGE TEMPERATURE RANGE | -10°C TO +60°C(NOTE 3) |
| | OPERATING HUMIDITY RANGE | 20 % TO 80 % (NOTE 2) | STORAGE HUMIDITY RANGE | 40 % TO 70 %(NOTE 3) |
| | VOLTAGE | AC 150 V | APPLICABLE CONNECTOR | DF13-*S-1.25C |
| | CURRENT | 1 A | APPLICABLE CONTACT | DF13(G)-2630SCF, DF13-3032SCF |

# 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 m A (DC OR 1000 Hz). | 30 mΩ MAX. | X | – |
| INSULATION RESISTANCE | 100 V DC. | 500 MΩ MIN. | X | – |
| VOLTAGE PROOF | 500 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.<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 $m/s^2$ 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→ 10 TO 5→ 30→ 10 TO15 min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30mΩ MAX.<br>② INSULATION RESISTANCE: 500 MΩ MIN.<br>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<br>≪REFLOW AREA≫<br>MAX250℃ WITHIN 10 sec<br>MIN 230℃ WITHIN 60 sec<br>≪PREHEATING AREA≫<br>170℃ to 190℃ 60 sec to 120 sec<br>PUT THROUGH IN REFLOW FURNACE TWICE<br>LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR.<br>CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW.<br>2) MANUAL SOLDERING<br>SOLDERING IRON TEMPERATURE :350℃,<br>SOLDERING TIME : 3sec.<br>NO STRENGTH ON CONTACT. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | – |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245±3°C FOR INSERTION DURATION, 3sec. | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | X | – |

REMARKS
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT
NOTE2: NO CONDENSING
NOTE3: APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE MOUNTED ON PCB.
AFTER MOUNTED ON PCB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| ⚠0 | | | | | |

Unless otherwise specified, refer to IEC 60512.

| | | |
|---|---|---|
| APPROVED | HS.OKAWA | 18.04.05 |
| CHECKED | TS.FUKUSHIMA | 18.04.05 |
| DESIGNED | TS.KUMAZAWA | 18.04.05 |
| DRAWN | MK.INOUE | 18.04.05 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC-083664-75-00

HRS

SPECIFICATION SHEET — PART NO. DF13-*P-1.25V(75)

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FORM HD0011-2-1

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## Hirose Electric:

DF36A-25P-SHL FX8-120S-SV(22) RM15TRH-10PH(81) ZH05-20DP-HU(B) DF22A-1416SCFA
DF62C-4S-2.2C FX18-60S-0.8SH FX18-80S-0.8SH RM15TP-2PA(81) ZE05-24DP-2H FH41-30S-0.5SH(05)
FH72-21S-0.3SHW DF17(3.0)-40DS-0.5V(57) DF33C-4S-3.3C DF59M-2224PCF GT8E-6S-HU
DF52-4P-0.8C FH35C-19S-0.3SHW(50) RM12BRD-2PH(81) ZE064W-8DP-HU/R(A) FH41-50S-0.5SH(28)
ZE05H-12DP-2H ZE05H-4P-2V(A) BM29B0.6-4DS/2-0.35V(51) DF11-16DP-2DSA(24)
DF40C-50DP-0.4V(51) DF57AH-5S-1.2C DF65-4P-1.7V(21) HDE-CTH(10) DF19A-3032SCFA(41)