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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℃ TO +85℃(NOTE1)	STORAGE TEMPERATURE RANGE	-10℃ TO +60℃(NOTE3)
	OPERATING HUMIDITY RANGE	40% TO 80%(NOTE2)	STORAGE HUMIDITY RANGE	40% TO 70%(NOTE3)
	VOLTAGE	AC 250V	APPLICABLE CONTACT	DF1B-*S-2.5R
	CURRENT	AWG20 TO 24: 3A AWG26: 2A AWG28: 1A AWG30: 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	100 mA(DC OR 1000HZ).	30 mΩ MAX.	X	–
INSULATION RESISTANCE	500 V DC.	1000 MΩ MIN.	X	–
VOLTAGE PROOF	650 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	–
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	50 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.	X	–
SHOCK	490 m/s^2 DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	–
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 ℃, 90 TO 95 %, 96 h.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN.	X	–
RAPID CHANGE OF TEMPERATURE	TEMPERATURE –55 →5 TO 35 →+85→5 TO35℃ TIME 30 → 10 → 30 → 10min UNDER 5 CYCLES.	③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	–
RESISTANCE TO SOLDERING HEAT	1) AUTOMATIC SOLDERING (FLOW) SOLDER TEMPERATURE, 260 ℃ FOR IMMERSION,DURATION, 5 sec. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE : 300 ℃, SOLDERING TIME : 3 sec. NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	–
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235±5℃ FOR INSERTION DURATION, 3s.	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 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.

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

Unless otherwise specified, refer to JIS C 5402.

APPROVED	TY.OMA	06.08.05
CHECKED	HK.UMEHARA	06.08.05
DESIGNED	AH.MIYAZAKI	06.08.05
DRAWN	AK.MIURA	06.08.05

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

DRAWING NO. ELC4-071798-01

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. DF1B-*P-2.5DSA(01)

CODE NO. CL541 △0 1/1

FORM HD0011-2-1