



**THE DATASHEET OF  
DF1B-4P-2.5DSA(01)**



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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(NOTE1)	STORAGE TEMPERATURE RANGE	-10°C TO +60°C(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			
<b>SPECIFICATIONS</b>					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
<b>CONSTRUCTION</b>					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X	
MARKING	CONFIRMED VISUALLY.		X	X	
<b>ELECTRIC CHARACTERISTICS</b>					
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	-	
<b>MECHANICAL CHARACTERISTICS</b>					
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 <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-	
<b>ENVIRONMENTAL CHARACTERISTICS</b>					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 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°C 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 °C FOR IMMERSION,DURATION, 5 sec. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE : 300 °C, 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°C FOR INSERTION DURATION, 3s.	SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.	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
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	
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	DF1B-*P-2. 5DSA (01)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL541	△ 1/1

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