







**THE DATASHEET OF
DF1B-2022SCFA**



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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	VOLTAGE	250 V AC/DC	CURRENT 	AWG20 : 5 A AWG22 : 3 A	
	OPERATING TEMPERATURE RANGE	-35 °C TO +85 °C(NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO +60 °C(NOTE 3)	
	OPERATING HUMIDITY RANGE	40% TO + 80%(NOTE 2)	STORAGE HUMIDITY RANGE	40% TO + 70%(NOTE 3)	
	APPLICABLE CABLE	UL1007,1061 : 20-22 AWG	APPLICABLE CONNECTOR	DF1B-*S-2.5R DF1B-*DS-2.5RC DF1B-*(D)ES-2.5RC	
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 MILLIVOLT LEVEL METHOD	100 mA (DC OR 1000Hz).		30 mΩ MAX.	X	-
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND EXTRACTION FORCE	<input type="checkbox"/> 0.635±0.002mm BY STEEL GAUGE.		INSERTION FORCE : 4.4 N MAX. EXTRACTION FORCE : 0.44 N MIN.	X	-
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. 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					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→5 TO 35→+85→5 TO35 °C TIME 30 →5 →30 →5 min UNDER 5 CYCLES.		① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	-
REMARKS					
NOTE 1:INCLUDING THE TEMPERATURE RISING BY CURRENT NOTE 2:NO CONDENSING. NOTE 3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE MOUNTED ON PCB, AFTER MOUNTED ON PCB, OPERATINGTEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION.					
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	1		TS. KUMAZAWA	SZ. ONO	20181019
Unless otherwise specified, refer to IEC 60512.			APPROVED	TS. SAKATA	20100319
			CHECKED	TS. FUKUSHIMA	20100319
			DESIGNED	HT. SATO	20100319
			DRAWN	YK. NAKATSU	20100319
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-021360-01	
	SPECIFICATION SHEET		PART NO.	DF1B-2022SCFA	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL541-0662-1-00	 1/1

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