

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE	STORAGE TEMPERATURE RANGE
		-45°C T0 +125°C (NOTES 1)	-10°C T0 + 60°C (NOTE2)
RATING	VOLTAGE	150V AC	DF9#—*S— 1V (%)
	CURRENT	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	100m A(DC OR 1000 HZ).	50mΩ MAX.	X	—
INSULATION RESISTANCE	100V DC.	500MΩ MIN.	X	—
VOLTAGE PROOF	250V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—

MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	30TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 50mΩ 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 1μs. 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.	① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—

ENVIRONMENTAL CHARACTERISTICS				
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -65 → 5 TO 35 → 125 → 5 TO 35°C TIME 30→10 TO 15 → 30→10 TO 15min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 50mΩ 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.	① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
HEAT RESISTANCE OF SOLDERING	(1) REFLOW SOLDERING 《REFLOW AREA》 MAX250°C, 220°C. FOR 60 SECONDS MAX. 《PREHEATING AREA》 150 TO 180°C. 90~120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. (2) MANUAL SOLDELING SOLDERING IRON TEMPERATURE 380°C SOLDERING TIME : WITHIN 3 SECONDS. NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		
SOLDERABILITY	SOLDERING TEMPERATURE: 245 ± 5°C DURATION OF IMMERSION : SOLDERING FOR 3 ± 0.5 SECONDS	A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSSED.	X	—

REMARKS				
NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT.				
NOTE2: STORAGE IS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS.				
APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPPLY.				
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.				

△	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	1	DIS-H-001216	TR. YUNOKI TR. YUNOKI	TS. MIYAZAKI	06.08.01
			APPROVED	MO. NAKAMURA	05.09.26
			CHECKED	TS. MIYAZAKI	05.09.22
			DESIGNED	TY. 001	05.09.22
			DRAWN	HK. MURAKAMI	05.09.14

Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. **ELG4-310706-01**

SPECIFICATION SHEET		PART NO.	DF9C-#P-1V (22)
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL540