

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 TO +125°C (NOTES 1)		-10°C TO + 60°C (NOTE2)	
RATING	VOLTAGE	150V AC		DF9#-*P-1V (22)	
	CURRENT	0.5A		DF9#-*P-1V (32)	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS		
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		
MARKING	CONFIRMED VISUALLY.				
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 <sup>2</sup> 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 15 min 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	【RECOMMENDED TEMPERATURE PROFILE】 《SOLDERING 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. 【RECOMMENDED MANUAL SOLDERING CONDITION】 SOLDERING IRON TEMPERATURE 380°C SOLDERING TIME: WITHIN 3 SECONDS.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X
SOLDERABILITY	SOLDERING TEMPERATURE: 245±5°C DURATION OF IMMERSION: 30 SECONDS SOLDERING FOR 3SECONDS		A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSERD.		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-001214	AR, TAKAHASHI	TS, MIYAZAKI	06.08.02	
		APPROVED	MO, NAKAMURA	05.10.31	
		CHECKED	TS, MIYAZAKI	05.10.31	
		DESIGNED	TY, 001	05.10.31	
		DRAWN	HK, MURAKAMI	05.10.31	
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.		ELC4-162417-04	
SPECIFICATION SHEET		PART NO.	DF9A-*S-1V (22)		
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL540		
					1/1