

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

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT
RATING	OPERATING TEMPERATURE RANGE	-45°C T0 +125°C (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C T0 + 60°C (NOTE2)			
	VOLTAGE	150V AC	APPLICABLE CONNECTOR	DF9#-*S-1V(69)			
	CURRENT	0.5A					
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	100TIMES 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	-		
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.	X	-		
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.	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 SOLDELING CONDITION] SOLDERING IRON TEMPERATURE 380°C SOLDERING TIME : WITHIN 3 SECONDS.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.				
SOLDERABILITY	SOLDERING TEMPERATURE: 245 ± 5°C DURATION OF IMMERSION : SOLDERING FOR 3SECONDS		A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMersed.				
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. OPERATION TEMPERATURE FOR TAPE-AND-REAL PRODUCTS SHALL BE -10 TO 50°C. UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.							
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
1	DIS-H-001223	AR, TAKAHASHI	TS, MIYAZAKI	06.08.01			
		APPROVED	MO, NAKAMURA	06.09.02			
		CHECKED	TS, MIYAZAKI	06.09.02			
		DESIGNED	YH, MICHIDA	06.08.31			
		DRAWN	YH, MICHIDA	06.08.31			
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.		ELC4-306115-09			
SPECIFICATION SHEET		PART NO.		DF9A-*P-1V(69)			
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL540	
				DRAWING NO.		ELC4-306115-09	
				PART NO.		DF9A-*P-1V(69)	
				HIROSE ELECTRIC CO., LTD.		CL540	
						△ 1/1	