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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	-45°C TO +125°C (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO + 60°C (NOTE2)		
	VOLTAGE	150V AC	APPLICABLE CONNECTOR	DF9#-*S-1V (59)		
	CURRENT	0.5A		DF9#-*S-1V (69)		
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		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→10TO15min 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.	X	-
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.	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-001222	AR. TAKAHASHI	TS. MIYAZAKI	06.08.01	
				APPROVED	TY. OMA	04.04.01
				CHECKED	TY. OMA	04.04.01
				DESIGNED	HK. UMEHARA	04.03.31
				DRAWN	MY. NAKAMOTO	04.03.31
Note QT: Qualification Test AT: Assurance Test X: Applicable Test			DRAWING NO.		ELC4-305986-13	
SPECIFICATION SHEET			PART NO.	DF9-*P-1V (69)		
HIROSE ELECTRIC CO., LTD.			CODE NO.	CL540	△	1/1