

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

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE		
OPERATING TEMPERATURE RANGE	-45°C T0 +125°C (NOTES 1)	TEMPERATURE RANGE	-10°C T0 + 60°C (NOTE2)	
VOLTAGE	150V AC	APPLICABLE CONNECTOR	DF9#--*S-1V(22)	
CURRENT	0.5A		DF9#--*S-1V(32)	
SPECIFICATIONS				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION		ACCORDING TO DRAWING.		
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		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 <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 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	[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 IMMERSSED.	X	-
REMARKS				
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTE2:STORAGEIS 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-001204	AR. TAKAHASHI	TS. MIYAZAKI	06.08.02
		APPROVED	TY. OMA	04.03.31
		CHECKED	TY. OMA	04.03.31
		DESIGNED	HK. UMEHARA	04.03.31
		DRAWN	M.Y. NAKAMOTO	04.03.31
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-305986-11	
SPECIFICATION SHEET		PART NO.	DF9-*P-1V(32)	
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL540	1/1