

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

APPLICABLE STANDARD		-45°C TO 125°C (NOTES 1)		STORAGE TEMPERATURE RANGE	-10°C TO 60°C		
RATING	OPERATING TEMPERATURE RANGE						
	VOLTAGE	50V AC		APPLICABLE CONNECTOR	DF12# (3. 0) -10DP-0. 5V (**)		
	CURRENT	0. 3A					
SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS			QT	AT	
CONSTRUCTION		GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.		
MARKING	CONFIRMED VISUALLY.				X	X	
ELECTRIC CHARACTERISTICS					X	X	
CONTACT RESISTANCE	100m A (DC OR 1000 Hz).	50mΩ MAX.			X	-	
INSULATION RESISTANCE	100V DC.	500MΩ MIN.			X	-	
VOLTAGE PROOF	150V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.			X	-	
MECHANICAL CHARACTERISTICS					X	-	
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 19. 8N MAX. WITHDRAWAL FORCE: 1. 5N MIN			X	-	
MECHANICAL OPERATION	50TIMES INSERTIONS AND WITHDRAWALS.	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					X	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -65→-15 TO 35→125→15 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 PPW 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 SOLDERING CONDITION】 SOLDERING IRON TEMPERATURE 350°C SOLDERING TIME : WITHIN 3 SECONDS.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			X	-	
REMARKS							
NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT.							
UNLESS OTHERWISE SPECIFIED , REFER TO JIS C 5402 .							
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED		DATE		
△			APPROVED	KH. IKEDA	09. 12. 14		
			CHECKED	AR. TAKAHASHI	09. 12. 14		
			DESIGNED	TY. YAMASAKI	09. 06. 30		
			DRAWN	TY. YAMASAKI	09. 06. 30		
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.	ELC4-324192-01				
SPECIFICATION SHEET		PART NO.	DF12L (3. 0) -10DS-0. 5V (86)				
		HIROSE ELECTRIC CO., LTD.	CODE NO.	CL537-2004-0-86			△
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