

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) -10DS-0. 5V (**)
	CURRENT	0. 3A				
SPECIFICATIONS						
ITEM	TEST METHOD	REQUIREMENTS			QT	AT
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.	
GENERAL EXAMINATION	CONFIRMED VISUALLY.				X	X
MARKING					X	X
ELECTRIC CHARACTERISTICS						
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						
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 19. 8N MAX.			X	-
MECHANICAL OPERATION	50TIMES INSERTIONS AND WITHDRAWALS.	WITHDRAWAL FORCE: 1. 5N MIN			X	-
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0. 75 mm, AT 2 h, FOR 3 DIRECTIONS.	① CONTACT RESISTANCE: 50mΩ MAX.			X	-
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			X	-
		③ NO ELECTRICAL DISCONTINUITY OF 1μs.			X	-
		④ NO ELECTRICAL DISCONTINUITY OF 1μs.			X	-
		⑤ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			X	-
ENVIRONMENTAL CHARACTERISTICS						
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.			X	-
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	② INSULATION RESISTANCE: 500 MΩ MIN.			X	-
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.			X	-
SULPHUR DIOXIDE	EXPOSED IN 10 PPW FOR 96 h (TEST STANDARD: JEIDA-39)	④ CONTACT RESISTANCE: 50mΩ MAX.			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.	① NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			X	-
		② CONTACT RESISTANCE: 50 mΩ MAX.			X	-
		③ NO HEAVY CORROSION.			X	-
		④ NO HEAVY CORROSION.			X	-
		⑤ 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	09. 12. 14		
			CHECKED	09. 12. 14		
			DESIGNED	09. 06. 30		
			DRAWN	09. 06. 30		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-324191-01			
SPECIFICATION SHEET		PART NO.	DF12L (3. 0) -10DP-0. 5V (86)			
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL537-2003-7-86			
				△	1/1	