

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 CURRENT	50V AC 0.3A		APPLICABLE CONNECTOR	DF12# (3. 0) -80DP-0.5V (**)	
<b>SPECIFICATIONS</b>						
ITEM	TEST METHOD	REQUIREMENTS			QT	AT
<b>CONSTRUCTION</b>		GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT. MARKING CONFIRMED VISUALLY.			ACCORDING TO DRAWING. X X X	
<b>ELECTRIC CHARACTERISTICS</b>		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
<b>MECHANICAL CHARACTERISTICS</b>						
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE: 75.8N MAX. WITHDRAWAL FORCE: 7.4N 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 <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
<b>ENVIRONMENTAL CHARACTERISTICS</b>						
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		
△ 1	DI-S-H-004395	YU. SAKAMOTO	AR. TAKAHASHI	09.12.11		
		APPROVED	KH. IKEDA	09.09.16		
		CHECKED	TS. MIYAZAKI	09.09.16		
		DESIGNED	TY. YAMASAKI	09.09.15		
		DRAWN	TY. YAMASAKI	09.09.15		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-326593-01		
<b>HRS</b>		SPECIFICATION SHEET		PART NO.	DF12L (3. 0) -80DS-0.5V (86)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL537-2009-3-86	
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