

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

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE		-10°C T <sub>0</sub> + 60°C		
RATING	OPERATING TEMPERATURE RANGE	-35°C T <sub>0</sub> +85°C (NOTES 1)		APPLICABLE CONNECTOR	DF17# (1.0H) -*DP-0.5V (57)	
	VOLTAGE	50V AC				
CURRENT	0.3A					
SPECIFICATIONS						
ITEM	TEST METHOD	REQUIREMENTS		QT	AT	
CONSTRUCTION			GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT. ACCORDING TO DRAWING.			
MARKING			CONFIRMED VISUALLY.			
ELECTRIC CHARACTERISTICS						
CONTACT RESISTANCE	100m A(DC OR 1000 HZ).	60mΩ 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.		SIGNAL FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN	X	-
MECHANICAL OPERATION	50TIMES INSERTIONS AND EXTRACTATIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs.		26	26	
		② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		30	3.0	
		③ NO ELECTRICAL DISCONTINUITY OF 1μs.		60	6.0	
		④ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		70	7.0	
		⑤ NO ELECTRICAL DISCONTINUITY OF 1μs.		80	8.0	
VIBRATION	FREQUENCY 10 TO 55 HZ, SINGLE AMPLITUDE 0.75 mm, AT 2h, FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 1μs.		X	-	
SHOCK	490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.		X	-	
ENVIRONMENTAL CHARACTERISTICS						
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 → 5 TO 35 → 85 → 5 TO 35°C TIME 30→10 TO 15 → 30→10TO15min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 60mΩ MAX.		X	-	
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.	② INSULATION RESISTANCE: 500 MΩ MIN.				
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.				
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)	④ CONTACT RESISTANCE: 80 mΩ 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.	⑤ CONTACT RESISTANCE: 60 mΩ MAX.				
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE		
REMARKS						
NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT.						
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-162761-05			
SPECIFICATION SHEET		PART NO.	DF17 (3.0H) -*DS-0.5V (57)			
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL683			
		APPROVED	MO. NAKAMURA	05.09.12		
		CHECKED	AR. TAKAHASHI	05.09.09		
		DESIGNED	YH. MICHIDA	05.09.09		
		DRAWN	HK. MURAKAMI	05.09.09		
		1/1				