

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	-35°C T0 +85°C (NOTE 1)	TEMPERATURE RANGE	-10°C T0 + 60°C		
VOLTAGE	50V AC	APPLICABLE CONNECTOR	DF17# (1.0H) -*DP-0.5V (**)		
CURRENT	0.3A				
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
CONSTRUCTION		ACCORDING TO DRAWING.		X	X
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.			X	X
MARKING	CONFIRMED VISUALLY.			X	X
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	100mA (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	—
		26	2.6		
		30	3.0		
		60	6.0		
		70	7.0		
		80	8.0		
MECHANICAL OPERATION	50TIMES INSERTIONS AND EXTRACTATIONS.	① CONTACT RESISTANCE: 60mΩ MAX.	② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2h, 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					
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.	② INSULATION RESISTANCE: 500 MΩ MIN.	X	—
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2°C, 90 TO 95%, 96 h.	① CONTACT RESISTANCE: 60mΩ MAX.	② INSULATION RESISTANCE: 250 MΩ MIN.	X	—
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	① CONTACT RESISTANCE: 60 mΩ MAX.	X	—
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)	② NO HEAVY CORROSION.	① CONTACT RESISTANCE: 60 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.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	—
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
REMARKS NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.		APPROVED	MO. NAKAMURA	05.12.27	
		CHECKED	TS. MIYAZAKI	05.12.22	
		DESIGNED	YH. MICHIDA	05.12.21	
		DRAWN	HK. MURAKAMI	05.12.21	
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-162763-08		
SPECIFICATION SHEET		PART NO.	DF17B (3.0H) -*DS-0.5V (57)		
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL683		
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