



**THE DATASHEET OF  
DF17(3.0)-40DS-0.5V(57)**



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

APPLICABLE STANDARD							
RATING	OPERATING TEMPERATURE RANGE	-35°C TO +85°C (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO + 60°C			
	VOLTAGE	50V AC	APPLICABLE CONNECTOR	DF17# (**)-*DP-0.5V (**)			
	CURRENT	0.3A					
SPECIFICATIONS							
ITEM	TEST METHOD		REQUIREMENTS	QT	AT		
CONSTRUCTION							
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	X	X		
MARKING	CONFIRMED VISUALLY.			X	X		
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	INSERTION FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN	X	—
			20	20.0	2.0		
			26	26.0	2.6		
			30	30.0	3.0		
			40	40.0	4.0		
			50	50.0	5.0		
			60	60.0	6.0		
			70	70.0	7.0		
			80	80.0	8.0		
			100	100.0	10.0		
120	120.0	12.0					
MECHANICAL OPERATION	50TIMES INSERTIONS AND EXTRACTIONS.		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 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	—		
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. 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: 60mΩ MAX. ② INSULATION RESISTANCE: 250 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: 60 mΩ MAX. ② NO HEAVY CORROSION.	X	—		
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JEIDA-39)		① CONTACT RESISTANCE: 60 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 SOLDELING 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		
△	1	DIS-H-000664	HK.MURAKAMI	TS.MIYAZAKI	05.12.06		
REMARKS			APPROVED	MO.NAKAMURA	05.04.01		
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.			CHECKED	TS.MIYAZAKI	05.03.31		
UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 5402.			DESIGNED	YH.MICHIDA	05.03.31		
			DRAWN	YH.MICHIDA	05.03.31		
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-162127-04			
	SPECIFICATION SHEET		PART NO.	DF17 (3. 0) -*DS-0.5V (57)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL683	△ 1/1		

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