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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 (NOTE 2)																															
	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. 	<table><tr><td rowspan="2">PIN COUNT</td><td>INSERTION FORCE</td><td>WITHDRAWAL FORCE</td><td rowspan="2">X</td><td rowspan="2">—</td></tr><tr><td>(N)MAX</td><td>(N)MIN</td></tr><tr><td>30</td><td>30.0</td><td>3.0</td><td></td><td></td></tr><tr><td>40</td><td>40.0</td><td>4.0</td><td></td><td></td></tr><tr><td>50</td><td>50.0</td><td>5.0</td><td></td><td></td></tr><tr><td>60</td><td>60.0</td><td>6.0</td><td></td><td></td></tr><tr><td>80</td><td>80.0</td><td>8.0</td><td></td><td></td></tr></table>	PIN COUNT	INSERTION FORCE	WITHDRAWAL FORCE	X	—	(N)MAX	(N)MIN	30	30.0	3.0			40	40.0	4.0			50	50.0	5.0			60	60.0	6.0			80	80.0	8.0		
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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 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. 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 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-00003088	SH. HOSODA	TS. MIYAZAKI	17. 09. 29																														
REMARKS			APPROVED	MO. NAKAMURA	05. 10. 31																														
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.			CHECKED	TS. MIYAZAKI	05. 10. 28																														
NOTE2:STORAGEIS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS.			DESIGNED	YH. MICHIDA	05. 10. 28																														
APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPPLY.			DRAWN	HK. MURAKAMI	05. 10. 27																														
UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 5402.																																			
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-162128-05																															
	SPECIFICATION SHEET		PART NO.	DF17A(3.0)-*DS-0.5V(57)																															
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL683	 1/1																														