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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#(**)-*DS-0. 5V (57)																					
	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></tr><tr><td>(N)MAX</td><td>(N)MIN</td></tr><tr><td>30</td><td>30.0</td><td>3.0</td></tr><tr><td>40</td><td>40.0</td><td>4.0</td></tr><tr><td>50</td><td>50.0</td><td>5.0</td></tr><tr><td>60</td><td>60.0</td><td>6.0</td></tr><tr><td>80</td><td>80.0</td><td>8.0</td></tr></table>	PIN COUNT	INSERTION FORCE	WITHDRAWAL FORCE	(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	X	—
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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. 05. 20																				
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.			CHECKED	TS. MIYAZAKI	05. 05. 19																				
UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 0806.			DESIGNED	YH. MICHIDA	05. 05. 19																				
			DRAWN	YH. MICHIDA	05. 05. 19																				
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-162140-06																					
	SPECIFICATION SHEET		PART NO.	DF17A (4. 0) -*DP-0. 5V (57)																					
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL683	 1/1																				