

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

APPLICABLE STANDARD		-35°C TO +85°C (NOTES 1)		STORAGE TEMPERATURE RANGE		-10°C TO + 60°C																			
RATING	OPERATING TEMPERATURE RANGE																								
	VOLTAGE	50V AC		APPLICABLE CONNECTOR		DF17#(3.0H) -*DS-0.5V(57)																			
	CURRENT	0.3A																							
SPECIFICATIONS																									
ITEM	TEST METHOD			REQUIREMENTS																					
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.																					
GENERAL EXAMINATION		CONFIRMED VISUALLY.																							
MARKING																									
ELECTRIC CHARACTERISTICS																									
CONTACT RESISTANCE	100m A (DC OR 1000 HZ).	60mΩ MAX.																							
INSULATION RESISTANCE	100V DC.	500MΩ MIN.																							
VOLTAGE PROOF	150V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.																							
MECHANICAL CHARACTERISTICS																									
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.			<table border="1"> <thead> <tr> <th>SIGNAL</th> <th>INSERTION FORCE (N)MAX</th> <th>WITHDRAWAL FORCE (N)MIN</th> </tr> </thead> <tbody> <tr> <td>26</td> <td>26.0</td> <td>2.6</td> </tr> <tr> <td>30</td> <td>30.0</td> <td>3.0</td> </tr> <tr> <td>60</td> <td>60.0</td> <td>6.0</td> </tr> <tr> <td>70</td> <td>70.0</td> <td>7.0</td> </tr> <tr> <td>80</td> <td>80.0</td> <td>8.0</td> </tr> </tbody> </table>		SIGNAL	INSERTION FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN	26	26.0	2.6	30	30.0	3.0	60	60.0	6.0	70	70.0	7.0	80	80.0	8.0	X	
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MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTATIONS.			① CONTACT RESISTANCE: 60mΩ MAX.		X																			
				② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																					
VIBRATION	FREQUENCY 10 TO 55 HZ, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1μs.		X																			
				② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																					
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1μs.		X																			
				② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																					
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																			
				② INSULATION RESISTANCE: 500 MΩ MIN.																					
				③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.			① CONTACT RESISTANCE: 60mΩ MAX.		X																			
				② INSULATION RESISTANCE: 250 MΩ MIN.																					
				③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.																					
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 60 mΩ MAX.		X																			
				② NO HEAVY CORROSION.																					
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)			① CONTACT RESISTANCE: 60 mΩ MAX.		X																			
				② NO HEAVY CORROSION.																					
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. UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 5402.	A			APPROVED	MO. NAKAMURA	05.12.13																			
				CHECKED	TS. MIYAZAKI	05.12.13																			
				DESIGNED	YH. MICHIDA	05.12.12																			
				DRAWN	HK. MURAKAMI	05.12.12																			
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-162767-07																					
SPECIFICATION SHEET		PART NO.		DF17B(1.0H) -*DP-0.5V(57)																					
HIROSE ELECTRIC CO., LTD.		CODE NO.		CL683																					
						1/1																			