

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 (NOTES 1)	TEMPERATURE RANGE	-10°C T0 + 60°C																					
VOLTAGE	50V AC	APPLICABLE CONNECTOR	DF17# (**)-*DS-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.		X	-																				
		<table border="1"> <thead> <tr> <th>SIGNAL FORCE (N)MAX</th> <th>WITHDRAWAL FORCE (N)MIN</th> </tr> </thead> <tbody> <tr><td>20</td><td>2.0</td></tr> <tr><td>30</td><td>3.0</td></tr> <tr><td>40</td><td>4.0</td></tr> <tr><td>50</td><td>5.0</td></tr> <tr><td>60</td><td>6.0</td></tr> <tr><td>70</td><td>7.0</td></tr> <tr><td>80</td><td>8.0</td></tr> <tr><td>100</td><td>10.0</td></tr> <tr><td>120</td><td>12.0</td></tr> </tbody> </table>	SIGNAL FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN	20	2.0	30	3.0	40	4.0	50	5.0	60	6.0	70	7.0	80	8.0	100	10.0	120	12.0		
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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→10 TO 15min 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 SOLDERING CONDITION] SOLDERING IRON TEMPERATURE 350°C SOLDERING TIME : WITHIN 3 SECONDS.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.																						
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE																				
△																								
REMARKS																								
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.																								
UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 0806.																								
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-162135-06																					
SPECIFICATION SHEET		PART NO.	DF17 (2. 0) -*DP-0.5V (57)																					
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL683																					
			△	1/1																				