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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 (**)																														
	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 border="1"> <thead> <tr> <th rowspan="2">SIGNAL</th> <th>INSERTION FORCE (N)MAX</th> <th>WITHDRAWAL FORCE (N)MIN</th> </tr> </thead> <tbody> <tr><td>20</td><td>20.0</td><td>2.0</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>70</td><td>70.0</td><td>7.0</td></tr> <tr><td>80</td><td>80.0</td><td>8.0</td></tr> <tr><td>100</td><td>100.0</td><td>10.0</td></tr> <tr><td>120</td><td>120.0</td><td>12.0</td></tr> </tbody> </table>	SIGNAL	INSERTION FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN	20	20.0	2.0	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	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 <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 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.																																
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE																													
REMARKS NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.  UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 0806.				APPROVED	TS.MIYAZAKI 05.03.30																													
				CHECKED	TS.MIYAZAKI 05.03.30																													
				DESIGNED	YH.MICHIDA 05.03.28																													
				DRAWN	YH.MICHIDA 05.03.28																													
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.	GL683		1/1																													