

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 TO +85°C (NOTES 1)	-10°C TO + 60°C																										
VOLTAGE	50V AC	APPLICABLE CONNECTOR	DF17# (**)-*DP-0.5V (**)																									
CURRENT	0.3A																											
SPECIFICATIONS																												
ITEM	TEST METHOD	REQUIREMENTS	QT	AT																								
CONSTRUCTION		GENERAL EXAMINATION	ACCORDING TO DRAWING.																									
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</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> </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		
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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	<p>【RECOMMENDED TEMPERATURE PROFILE】</p> <p>《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.</p>	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	-																								
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE																								
1	DI-S-H-004663	YH_SAKAMOTO	AR_TAKAHASHI	10.03.16																								
REMARKS		APPROVED	TS_MIYAZAKI	05.03.30																								
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.		CHECKED	TS_MIYAZAKI	05.03.30																								
UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 0806.		DESIGNED	YH_MICHIDA	05.03.29																								
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	YH_MICHIDA	05.03.29																								
DRAWING NO.		ELC4-162131-04																										
SPECIFICATION SHEET		PART NO.	DF17 (4.0)-*DS-0.5V (57)																									
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL683																									
				1/1																								