



**THE DATASHEET OF
DF17(4.0)-80DS-0.5V(57)**



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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# (**)-*DP-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> </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	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		<p>【RECOMMENDED TEMPERATURE PROFILE】</p> <p>《SOLDERING AREA》 MAX250°C, 220°C FOR 60 SECONDS MAX.</p> <p>《PREHEATING AREA》 150 TO 180°C 90 ~ 120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION.</p> <p>【RECOMMENDED MANUAL SOLDELING 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	DIS-H-004663		YN. 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																									
				DRAWN	YH. MICHIDA	05.03.29																									
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				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																								

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