

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

APPLICABLE STANDARD		STORAGE TEMPERATURE RANGE		-10°C T ₀ + 60°C (NOTES 2)																									
OPERATING TEMPERATURE RANGE		-35°C T ₀ +85°C (NOTES 1)		APPLICABLE CONNECTOR																									
RATING		50V AC		DF17# (**)-*DS-0.5V (**)																									
CURRENT		0.3A																											
SPECIFICATIONS																													
ITEM	TEST METHOD	REQUIREMENTS		QT	AT																								
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.																									
GENERAL EXAMINATION		CONFIRMED VISUALLY.		X	X																								
MARKING				X	X																								
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>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
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																											
MECHANICAL OPERATION		50TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 60mΩ MAX. 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. 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. 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. 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. 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. ② NO HEAVY CORROSION.																									
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39)		① CONTACT RESISTANCE: 60 mΩ MAX. 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.																									
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE																									
REMARKS NOTES1:INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTES2:STORAGEIS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS. APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPPLY. UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 0806.																													
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-162141-07																									
SPECIFICATION SHEET		PART NO.		DF17B(4. 0) -*DP-0.5V (57)																									
		HIROSE ELECTRIC CO., LTD.		CODE NO. CL683																									
		APPROVED		MO. NAKAMURA																									
		CHECKED		TS. MIYAZAKI																									
		DESIGNED		YH. MICHIDA																									
		DRAWN		HK. MURAKAMI																									
		05.11.09		05.11.08																									
		05.11.08		05.11.08																									
		05.11.08		05.11.08																									
		1/1																											