

Jun.1.2020 Copyright 2020 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
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 (NOTE2)																									
	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>SIGNAL</th> <th>INSERTION FORCE (N)MAX</th> <th>WITHDRAWAL FORCE (N)MIN</th> </tr> </thead> <tbody> <tr><td>20</td><td>200</td><td>20</td></tr> <tr><td>30</td><td>300</td><td>30</td></tr> <tr><td>40</td><td>400</td><td>40</td></tr> <tr><td>50</td><td>500</td><td>50</td></tr> <tr><td>60</td><td>600</td><td>60</td></tr> <tr><td>70</td><td>700</td><td>70</td></tr> <tr><td>80</td><td>800</td><td>80</td></tr> </tbody> </table>	SIGNAL	INSERTION FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN	20	200	20	30	300	30	40	400	40	50	500	50	60	600	60	70	700	70	80	800	80	X	-
SIGNAL	INSERTION FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN																											
20	200	20																											
30	300	30																											
40	400	40																											
50	500	50																											
60	600	60																											
70	700	70																											
80	800	80																											
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	[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.	X	-																								
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE																									
△																													
REMARKS			APPROVED	MO.NAKAMURA	05.11.09																								
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT.			CHECKED	TS.MIYAZAKI	05.11.08																								
NOTE2:STORAGEIS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS.			DESIGNED	YH.MICHIDA	05.11.07																								
APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPPLY.			DRAWN	HK.MURAKAMI	05.11.07																								
UNLESS OTHERWISE SPECIFIED,REFER TO JIS C 5402.																													
Note	QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC4-162133-07																										
SPECIFICATION SHEET		PART NO.	DF17B (4. 0) -*DS-0.5V (57)																										
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL683	△	1/1																								