

APPLICABLE STANDARD																							
RATING	OPERATING TEMPERATURE RANGE	-45°C TO +125°C (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO + 60°C (NOTE2)																			
	VOLTAGE	50V AC	APPLICABLE CONNECTOR	△DF12#(**)-*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	—																	
MARKING		CONFIRMED VISUALLY.			X	—																	
ELECTRIC CHARACTERISTICS																							
CONTACT RESISTANCE		100m A (DC OR 1000 Hz).	50mΩ MAX.		X	—																	
INSULATION RESISTANCE		100V DC	500MΩ MAX		X	—																	
VOLTAGE PROOF		150V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		X	—																	
MECHANICAL CHARACTERISTICS																							
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.	<table><tr><td rowspan="9">SIGNAL</td><td>INSERTION FORCE (N)MAX</td><td>WITHDRAWAL FORCE (N)MIN</td></tr><tr><td>20</td><td>2.6</td></tr><tr><td>30</td><td>3.4</td></tr><tr><td>32</td><td>3.6</td></tr><tr><td>36</td><td>4.0</td></tr><tr><td>40</td><td>4.2</td></tr><tr><td>50</td><td>5.0</td></tr><tr><td>60</td><td>6.0</td></tr></table>		SIGNAL	INSERTION FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN	20	2.6	30	3.4	32	3.6	36	4.0	40	4.2	50	5.0	60	6.0	X	—
SIGNAL	INSERTION FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN																					
	20	2.6																					
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	36	4.0																					
	40	4.2																					
	50	5.0																					
	60	6.0																					
	MECHANICAL OPERATION		50TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 50mΩ 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 -65→15 TO 35→125→15 TO 35°C TIME 30→10 TO 15→ 30→10TO15min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 50mΩ 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: 50mΩ MAX. ② INSULATION RESISTANCE: 500 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: 50 mΩ MAX. ② NO HEAVY CORROSION.		X	—																	
SULPHUR DIOXIDE		EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JEIDA-39)	① CONTACT RESISTANCE: 50 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 90~120 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.																				
REMARKS																							
NOTE1:INCLUDING THE TEMPERATURE RISE BY CURRENT. NOTE2:STORAGEIS DEFINED AS LONG-TERM STORAGE OF UNUSED PRODUCTS. APPLY OPERATION TEMPERATURE RANGE TO PRODUCTS MOUNTED ON PCB WITHOUT POWER SUPPLY. OPERATION TEMPERATURE FOR TAPE-AND-REAL PRODUCTS SHALL BE -10 TO 50°C. MOUNT CONNECTORS WITHIN 12HOURS AFTER TAKING OUT FROM THE PACKAGE. UNLESS OTHERWISE SPECIFIED , REFER TO JIS C 5402 .																							
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE																		
△	1	DIS-H-001982	YH. MICHIDA	TS. MIYAZAKI	07. 04. 20																		
			APPROVED	MO. NAKAMURA	05. 05. 26																		
			CHECKED	TS. MIYAZAKI	05. 05. 26																		
			DESIGNED	YH. MICHIDA	05. 05. 26																		
			DRAWN	YH. MICHIDA	05. 05. 26																		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-160937-07																		
SPECIFICATION SHEET			PART NO.	DF12B-*DS-0.5V (86)																			
HIROSE ELECTRIC CO., LTD.			CODE NO.	CL537	△	1/1																	