

APPLICABLE STANDARD		SPECIFICATIONS																													
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																													
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 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>23.4</td><td>2.6</td></tr> <tr><td>30</td><td>27.0</td><td>3.4</td></tr> <tr><td>32</td><td>27.6</td><td>3.6</td></tr> <tr><td>36</td><td>29.0</td><td>4.0</td></tr> <tr><td>40</td><td>30.6</td><td>4.2</td></tr> <tr><td>50</td><td>34.2</td><td>5.0</td></tr> <tr><td>60</td><td>38.0</td><td>6.0</td></tr> </tbody> </table>				SIGNAL	INSERTION FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN	20	23.4	2.6	30	27.0	3.4	32	27.6	3.6	36	29.0	4.0	40	30.6	4.2	50	34.2	5.0	60	38.0	6.0
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MECHANICAL OPERATION	50TIMES INSERTIONS AND EXTRACTIONS.			<p>① CONTACT RESISTANCE: 50mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.</p>			X —																								
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS.						X —																								
SHOCK	490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			<p>① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.</p>			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.			<p>① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.</p>			X —																								
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.						X —																								
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.						X —																								
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD:JEIDA-39)			<p>① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.</p>			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 SOLDERING 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																								