

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# (3. 0) -*DS-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	500M Ω 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>10</td><td>19.8</td><td>1.5</td></tr> <tr><td>14</td><td>21.3</td><td>2.1</td></tr> <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> <tr><td>80</td><td>45.0</td><td>7.4</td></tr> </tbody> </table>	SIGNAL	INSERTION FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN	10	19.8	1.5	14	21.3	2.1	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	80	45.0	7.4	X	—
SIGNAL	INSERTION FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN																																				
10	19.8	1.5																																				
14	21.3	2.1																																				
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																																				
80	45.0	7.4																																				
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 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 -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																																	
△	2	DIS-H-001982	YH. MICHIDA	TS. MIYAZAKI	07. 04. 20																																	
			APPROVED	TS. SAKATA	04. 12. 17																																	
			CHECKED	TS. SAKATA	05. 01. 0517																																	
			DESIGNED	AR. TAKAHASHI	04. 12. 09																																	
			DRAWN	YH. MICHIDA	05. 01. 059																																	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-163507-04																																	
SPECIFICATION SHEET			PART NO.	DF12 (3. 0) -*DP-0. 5V (86)																																		
HIROSE ELECTRIC CO., LTD.			CODE NO.	CL537	△ 1/1																																	