


APPLICABLE STANDARD																								
RATING	OPERATING TEMPERATURE RANGE	-45°C TO +125°C (NOTES 1)	STORAGE TEMPERATURE RANGE																					
	VOLTAGE	50V AC	APPLICABLE CONNECTOR																					
	CURRENT	0.3A																						
-10°C TO + 60°C (NOTES 2)																								
 DF12#-*DS-0.5V(**)																								
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 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>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	36	29.0	4.0	40	30.6	4.2	50	34.2	5.0	60	38.0	6.0	X
SIGNAL	INSERTION FORCE (N)MAX	WITHDRAWAL FORCE (N)MIN																						
20	23.4	2.6																						
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40	30.6	4.2																						
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60	38.0	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 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																								
NOTES 1:INCLUDING THE TEMPERATURE RISE BY CURRENT.																								
NOTES 2: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 5402 .																								
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED																					
	1	DIS-H-001982	YH. MICHIDA																					
			CHECKED																					
			TS. MIYAZAKI																					
			DATE																					
			07. 04. 20																					
			APPROVED																					
			TS. SAKATA																					
			04. 12. 28																					
			CHECKED																					
			TS. SAKATA																					
			04. 12. 28																					
			DESIGNED																					
			TH. YAMAMOTO																					
			04. 12. 28																					
			DRAWN																					
			YH. MICHIDA																					
			04. 12. 28																					
Note	QT:Qualification Test	AT:Assurance Test	X:Applicable Test																					
		DRAWING NO.	ELC4-163514-06																					
	SPECIFICATION SHEET	PART NO.	DF12 (5. 0) -*DP-0.5V (86)																					
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL537																					
			 1/1																					