

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-45°C TO + 125°C (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO + 60°C (NOTES 2)
	VOLTAGE	50V AC	APPLICABLE CONNECTOR	DF12#-*DP-0.5V (86)
	CURRENT	0.3A		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION

GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	—
MARKING	CONFIRMED VISUALLY.		X	—

ELECTRIC CHARACTERISTICS

CONTACT RESISTANCE	100mA (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" style="width: 100%; text-align: center;"> <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	—
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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.	X	—

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.
UNLESS OTHERWISE SPECIFIED , REFER TO JIS C 5402 .

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
1	DIS-H-000664	HK.MURAKAMI	TS.MIYAZAKI	05.12.06
		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. ELC4-162502-09

SPECIFICATION SHEET	PART NO.	DF12-*DS-0.5V (86)		
HIROSE ELECTRIC CO., LTD.	CODE NO.	CL537	△	1/1

