

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-45°C TO 125°C (NOTES 1)	STORAGE TEMPERATURE RANGE	-10°C TO 60°C
	VOLTAGE	50V AC	APPLICABLE CONNECTOR	DF12# (3.0) -80DP-0.5V (**)
	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	X
MARKING	CONFIRMED VISUALLY.		X	X

ELECTRIC CHARACTERISTICS

CONTACT RESISTANCE	100m A (DC OR 1000 Hz).	50mΩ MAX.	X	—
INSULATION RESISTANCE	100V DC.	500MΩ MIN.	X	—
VOLTAGE PROOF	150V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—

MECHANICAL CHARACTERISTICS

INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: Δ 75.8N MAX. WITHDRAWAL FORCE: 7.4N MIN	X	—
MECHANICAL OPERATION	50TIMES INSERTIONS AND WITHDRAWALS.	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.

UNLESS OTHERWISE SPECIFIED , REFER TO JIS C 5402 .

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
Δ 1	DIS-H-004395	YN. SAKAMOTO	AR. TAKAHASHI	09.12.11
			APPROVED KH. IKEDA	09.09.16
			CHECKED TS. MIYAZAKI	09.09.16
			DESIGNED TY. YAMASAKI	09.09.15
			DRAWN TY. YAMASAKI	09.09.15

Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC4-326593-01

HRS	SPECIFICATION SHEET	PART NO.	DF12L (3.0) -80DS-0.5V (86)		
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL537-2009-3-86	Δ	1/1