APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-45 °C TO +125 °C(NOTES 1)	STORAGE TEMPERATURE RANGE	-10 °C TO + 60 °C(NOTES 2)
	VOLTAGE	50 V AC	APPLICABLE CONNECTOR	DF12#(3.0)-*DS-0.5V(81) DF12#(3.0)-*DS-0.5V(86)
	CURRENT	0.3 A		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100 m A (DC OR 1000 Hz).	50 mΩ MAX.	X	—
INSULATION RESISTANCE	100 V DC	500 MΩ MAX.	X	—
VOLTAGE PROOF	150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	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	—
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 50 mΩ 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 1 μs. 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 1 μs. 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 → 10 TO 15 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 50 mΩ 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: 50 mΩ 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℃, 220℃ FOR 60 SECONDS MAX. 《PREHEATING AREA》 150 TO 180℃ 90～120 SECONDS. MAXIMUM TWICE ACTION IS ALLOWED UNDER THE SAME CONDITION. 【RECOMMENDED MANUAL SOLDELING CONDITION 】 SOLDERING IRON TEMPERATURE 350℃ 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 SUPLLY.
UNLESS OTHERWISE SPECIFIED , REFER TO JIS C 5402 .

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

APPROVED	MO.NAKAMURA	06.01.30
CHECKED	TS.MIYAZAKI	06.01.27
DESIGNED	YH.MICHIDA	06.01.27
DRAWN	HK.MURAKAMI	06.01.27

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-163508-09

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. DF12D(3.0)-*DP-0.5V(81)

CODE NO. CL537 △0 1/1

FORM HD0011-2-1