

APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-35°C TO + 85°C (NOTE 1)	STORAGE TEMPERATURE RANGE	-10°C TO + 60°C (NOTE3)		
	OPERATING HUMIDITY RANGE	20 % TO 80 % (NOTE2)	STORAGE HUMIDITY RANGE	40 % TO 70 % (NOTE3)		
	VOLTAGE	AC/DC 100V	APPLICABLE CONNECTOR	DF50#-50DS-1C		
	CURRENT	AWG 28 : 1.0 A AWG 30 : 0.9 A AWG 32 : 0.7 A	APPLICABLE CONTACT	DF50-2830SCFA		
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		AC 20mV MAX 1mA (DC OR 1000 Hz).		30mΩ MAX.	X	—
INSULATION RESISTANCE		100V DC.		500MΩ MIN.	X	—
VOLTAGE PROOF		300V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X	—
MECHANICAL CHARACTERISTICS						
INSERTION FORCE WITHDRAWAL FORCE		TESTING BY APPLICABLE CONNECTOR		INSERTION FORCE: 60.0 N MAX. WITHDRAWAL FORCE: 6.6 N MIN.	X	—
MECHANICAL OPERATION		30TIMES 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 10 CYCLE FOR EACH, 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.				
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h.		① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 100MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55→+85°C TIME 30→ 30min. UNDER 5 CYCLES. THE TRANSFERRING TIME OF THE TANK IS 2~3 min.		① CONTACT RESISTANCE: 50mΩ MAX. ② INSULATION RESISTANCE: 500MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
△						
			APPROVED	KI. AKIYAMA	12. 05. 31	
			CHECKED	HK. UMEHARA	12. 05. 31	
			DESIGNED	TT. OHSAKO	12. 05. 30	
			DRAWN	TT. OHSAKO	12. 05. 30	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-330237-02	
HRS	SPECIFICATION SHEET		PART NO.	DF50-50DP-1V (52)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL665-0011-1-52	△	1/2

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 5 sec.	SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	X	—
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING «REFLOW AREA» MAX250°C WITHIN 10 sec MIN 220°C WITHIN 60 sec «PREHEATING AREA» 150~180°C 90~120s 2) MANUAL SOLDERING SOLDERING IPON TEMPERRATURE 350±10°C SOLDERING TIME 3~4s. NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—

REMARKS


NOTE 1: INCLUDING THE TEMPERATURE RISE BY CURRENT.

NOTE 2: NON-CONDENSING

NOTE 3: APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFORE PCB ON BOARD.

AFTER PCB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STORAGE DURING TRANSPORTATION

Unless otherwise specified , refer to JIS C 5402.

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HRS	SPECIFICATION SHEET	PART NO.	DF50-50DP-1V (52)		
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL665-0011-1-52		2/2