

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD			
RATING	OPERATING TEMPERATURE RANGE	-35°C T0 + 85°C (NOTE1)	STORAGE TEMPERATURE RANGE
	OPERATING HUMIDITY RANGE	20 % TO 80 % (NOTE2)	STORAGE HUMIDITY RANGE
	VOLTAGE	AC/DC 100V	APPLICABLE CONNECTOR
CURRENT		AWG 28 : 1.0 A AWG 30 : 0.9 A	APPLICABLE CONTACT
			DF50A-*S-1C 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				
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 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 10.07.06
				CHECKED	OM. MIYAMOTO 10.07.05
				DESIGNED	TT. OHSAKO 10.07.05
				DRAWN	TT. OHSAKO 10.07.05

Note QT:Qualification Test AT:Assurance Test X:Applicable Test DRAWING NO. ELC4-332937-00

HRS	SPECIFICATION SHEET	PART NO.	DF50A-*P-1V (51)
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL665-

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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 TEMPERATURE 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.

Note	QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	EL04-332937-00	
HRS	SPECIFICATION SHEET	PART NO.	DF50A-*P-1V(51)	
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL665-	 2/2