

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

APPLICABLE STANDARD		OPERATING TEMPERATURE RANGE		STORAGE TEMPERATURE RANGE	
		-35°C T0 + 85°C (NOTE1)		-10°C T0 + 60°C (NOTE3)	
RATING	OPERATING TEMPERATURE RANGE	20 % TO 80 % (NOTE2)		40 % TO 70 % (NOTE3)	
	OPERATING HUMIDITY RANGE				
	VOLTAGE	AC/DC 100V	APPLICABLE CONNECTOR	DF50A-*S-1G	
CURRENT	AWG 28 : 1.0 A AWG 30 : 0.9 A	APPLICABLE CONTACT	DF50-2830SCFA		
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS			
CONSTRUCTION					
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.			
MARKING	CONFIRMED VISUALLY.				
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 <sup>2</sup> 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 CHECKED DESIGNED DRAWN	KI. AKIYAMA HK. UMEHARA ST. SATO ST. SATO	12. 06. 26 12. 06. 26 12. 06. 26 12. 06. 26
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-346572-01		
<b>HRS</b>		SPECIFICATION SHEET		DF50A-*P-1H (51)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL665-

**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 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.	ELC4-346572-01	
<b>HRS</b>	SPECIFICATION SHEET	PART NO.	DF50A-*P-1H(51)	
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL665-	 2/2