

APPLICABLE STANDARD						
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85°C (NOTE1)	STORAGE TEMPERATURE RANGE	-10 °C TO +60°C (NOTE3)		
	OPERATING HUMIDITY RANGE	20% TO 80% (NOTE2)	STORAGE HUMIDITY RANGE	40% TO 70% (NOTE3)		
	APPLICABLE CONNECTOR	DF57H-3S-1.2C(##)	CURRENT	AWG 28 : 2.0A AWG 30 : 1.5A		
	VOLTAGE	100 V AC/DC		AWG 32 : 1.0A AWG 34 : 0.8A		
SPECIFICATIONS						
ITEM		TEST METHOD		REQUIREMENTS		
CONSTRUCTION						
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		
MARKING		CONFIRMED VISUALLY.				
ELECTRIC CHARACTERISTICS						
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD		20mV MAX, 1mA (DC or 1000Hz).	10 mΩ MAX.	X	—	
INSULATION RESISTANCE		100 V DC.	100 MΩ MIN.	X	—	
VOLTAGE PROOF		500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—	
MECHANICAL CHARACTERISTICS						
MECHANICAL OPERATION		30 TIMES INSERTION AND EXTRACTION.	①CONTACT RESISTANCE: 20 mΩ MAX. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—	
CONTACT INSERTION AND EXTRACTION FORCES		IT TAKES OUT AND INSERTS WITH A CONFORMITY CONNECTOR.	①INSERTION FORCE : 20.0N MAX. ②EXTRACTION FORCE: 0.9N MIN.	X	—	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 10 CYCLES FOR 3 DIRECTION.	①NO ELECTRICAL DISCONTINUITY OF 1 μs. ②NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—	
SHOCK		ACCELERATION OF 490 m/s ² , 11ms DURATION ,SINE HALF-WAVE, 3 CYCLES IN EACH OF THE 3 AXIS.		X	—	
ENVIRONMENTAL CHARACTERISTICS						
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 ± 2°C , 90 TO 95 %, 96 h. (AFTER LEAVING THE ROOM TEMPERATURE FOR 1~2h.)	①CONTACT RESISTANCE: 20 mΩ MAX. ②INSULATION RESISTANCE: 100 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55°C→ +85°C TIME 30min→ 30min UNDER 5 CYCLES. (THE TRANSFERRING TIME OF THE TANK IS 2~3 min) (AFTER LEAVING THE ROOM TEMPERATURE FOR 1~2h.)	①CONTACT RESISTANCE: 20 mΩ MAX. ②INSULATION RESISTANCE: 100 MΩ MIN. ③NO DAMAGE, CRACK OR LOOSENESS OF PARTS.	X	—	
RESISTANCE TO SOLDERING HEAT		1) REFLOW SOLDERING «REFLOW TIME» NUMBER OF REFLOW CYCLES : 2 CYCLES MAX. DURATION ABOVE 220 °C, 60 sec. MAX. PEAK TEMPERATURE: 250°C 10 sec. MAX. «PRE-HEAT TIME» PRE-HEAT TEMPERATURE (MIN) :150 °C PRE-HEAT TEMPERATURE (MAX) :180 °C PRE-HEAT TIME (MIN) : 90 sec. PRE-HEAT TIME (MAX) : 120 sec. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE :350±10°C, SOLDERING TIME : 3sec. NO STRENGTH ON CONTACT.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—	
SOLDERABILITY		SOLDERING TEMPERATURE : 245°C DURATION OF IMMERSION :SOLDERING, FOR 5 sec.	NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	X	—	
NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT. NOTE2:NO CONDENSING NOTE3:APPLY TO THE CONDITION OF LONG TERM STORAGE FOR UNUSED PRODUCTS BEFOR PCB ON BOARD, AFTER PCB BOARD , OPERATING TEMPERATURE AND HUMIDITTY RANGE IS APPLIED FOR INTERIM STRAGE DURING TRANSPORTATION.						
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
①						
REMARKS			APPROVED	HK. UMEHARA	13. 04. 12	
			CHECKED	HK. UMEHARA	13. 04. 12	
			DESIGNED	TS. KUMAZAWA	13. 04. 12	
			DRAWN	MI. SAKIMURA	13. 04. 12	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC4-344680-01		
HRS	SPECIFICATION SHEET		PART NO.	DF57H-2P-2. 4V (21)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL666-0109-0-21	① 1/1	