

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

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		QT	AT			
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.	X	X
MARKING				CONFIRMED VISUALLY.				X	X	
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 <sup>2</sup> , 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 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: 360±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 POB BOARD, OPERATING TEMPERATURE AND HUMIDITY RANGE IS APPLIED FOR INTERIM STRAGE DURING TRANSPORTATION.										
△	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE					
REMARKS										
Unless otherwise specified, refer to JIS C 5402.										
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				