

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
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C (1)	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C (2)			
	VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %			
	CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % (2)			
SPECIFICATIONS							
ITEM	TEST METHOD		REQUIREMENTS		QT	AT	
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X	X
MARKING		CONFIRMED VISUALLY.				X	X
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).		40 mΩ MAX.		X	-	
MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000Hz)		50 mΩ MAX.		X	-	
INSULATION RESISTANCE	250 V DC		100 MΩ MIN.		X	-	
VOLTAGE PROOF	300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.		X	-	
MECHANICAL CHARACTERISTICS							
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE : 35.2 N MAX.		X	-	
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTATIONS.		WITHDRAWAL FORCE : 4.0 N MIN.				
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2 h FOR 3 DIRECTIONS.		① CONTACT RESISTANCE: 50 mΩ MAX.		X	-	
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-	
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.		① CONTACT RESISTANCE: 50 mΩ MAX.		X	-	
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-55→+15~+35→ +85→+15~+35°C TIME 30 → MAX 5 → 30 → MAX 5 min UNDER 5 CYCLES.		② INSULATION RESISTANCE:100 MΩ MIN.		X	-	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA 38)		① CONTACT RESISTANCE: 50 mΩ MAX.		X	-	
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING : 250 °C MAX, : 220 °C MIN, FOR 60 s 2) SOLDERING IRONS : 360 °C, FOR 5 s		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X	-	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240±3°C, FOR IMMERSION DURATION, 3 s.		A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.		X	-	
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE			
REMARK (1) TEMPERATURE RISE INCLUDED WHEN ENERGIZED. (2) THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED. Unless otherwise specified, refer to MIL-STD-1344.							
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.	ELC4-084980-21				
HRS		SPECIFICATION SHEET		PART NO.	FX6-40S-0.8SV2 (91)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.	QL576-0123-0-91		△
	APPROVED	HS. OKAWA	08.07.23				
	CHECKED	HT. YAMAGUCHI	08.07.23				
	DESIGNED	SY. KAMIIGA	08.07.22				
	DRAWN	HK. SUWADORI	08.07.17				