

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. CONFIRMED VISUALLY.		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 : 44.0 N MAX. WITHDRAWAL FORCE : 5.0 N MIN.		X	-		
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTATIONS.			① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-		
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2 h FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-		
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.					X	-		
ENVIRONMENTAL CHARACTERISTICS									
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 h.			① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN.		X	-		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → MAX 5 → 30 → MAX 5 min UNDER 5 CYCLES.			③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 50 mΩ MAX. ② NO HEAVY CORROSION.		X	-		
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 h. (TEST STANDARD: JEIDA 38)					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									
APPROVED		HS. OKAWA		08.06.13					
CHECKED		HT. YAMAGUCHI		08.06.13					
DESIGNED		SY. KAMIIGA		08.06.12					
DRAWN		HK. SUMADORI		08.06.12					
DRAWING NO.		ELC4-071641-23							
SPECIFICATION SHEET		PART NO.		FX6-50S-0.8SV2 (93)					
HIROSE ELECTRIC CO., LTD.		CODE NO.		QL576-0124-3-93					
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