

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. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-55→+15~+35→+85→+15~+35°C TIME 30 → MAX 5 → 30 → MAX 5 min UNDER 5 CYCLES.					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				
HRS		SPECIFICATION SHEET		PART NO.	FX6-50S-0.8SV (93)			
		HIROSE ELECTRIC CO., LTD.		CODE NO.	GL576-0104-6-93			
		DRAWING NO.		ELC4-071640-23				
		APPROVED	HS. OKAMA		08.12.22			
		CHECKED	HT. YAMAGUCHI		08.12.22			
		DESIGNED	SY. KAMIIGA		08.12.19			
		DRAWN	TP. MATSUMOTO		08.12.19			