

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)				
<b>SPECIFICATIONS</b>								
ITEM	TEST METHOD		REQUIREMENTS		QT	AT		
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.				
MARKING	CONFIRMED VISUALLY.							
<b>ELECTRIC CHARACTERISTICS</b>								
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).		40 mΩ MAX.					
MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000Hz)		50 mΩ MAX.					
INSULATION RESISTANCE	250 V DC		100 MΩ MIN.					
VOLTAGE PROOF	300 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.					
<b>MECHANICAL CHARACTERISTICS</b>								
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE :	70.4 N MAX.				
MECHANICAL OPERATION	100 TIMES INSERTIONS AND EXTRACTATIONS.		WITHDRAWAL FORCE :	8.0 N MIN.				
VIBRATION	FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, 2 hrs IN 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs.					
SHOCK	490 m/s <sup>2</sup> , DURATION OF PULSE 11 ms FOR 3 TIMES IN 3 DIRECTIONS.		② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
<b>ENVIRONMENTAL CHARACTERISTICS</b>								
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ~ 95 %, 96 hrs.		① CONTACT RESISTANCE: 50 mΩ MAX.					
RAPID CHANGE OF TEMPERATURE	TEMPERATURE-55→+15~+35→ +85→+15~+35°C TIME 30 → MAX 5 → 30 → MAX 5 min 5 CYCLES.		② INSULATION RESISTANCE: 100 MΩ MIN.					
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 hrs.		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
HYDROGEN SULPHIDE	EXPOSED IN 3 PPM FOR 96 hrs. (TEST STANDARD: JEIDA 38)		① CONTACT RESISTANCE: 50 mΩ MAX.					
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.					
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240°C, FOR IMMERSION DURATION, 3 sec.		② NO HEAVY CORROSION.					
			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.					
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE				
△								
<b>REMARK</b> (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.		ELC4-084984-23				
<b>HRS</b> SPECIFICATION SHEET HIROSE ELECTRIC CO., LTD.		PART NO.		FX6-80S-0.8SV2 (93)				
		CODE NO.		QL576-0127-1-93				
		APPROVED		HS. OKAWA		07.06.20		
		CHECKED		HS. OZAWA		07.06.20		
		DESIGNED		KT. DOI		07.06.20		
		DRAWN		TS. MIYAKI		07.06.14		