

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⁾		x	x	
	VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %		x	x	
	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).		45 mΩ MAX.			x		
MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000Hz)		55 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:	17.6 N MAX.	x		
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.			WITHDRAWAL FORCE:	2.0 N MIN.			
VIBRATION	FREQUENCY 10 TO 55 HZ, AMPLITUDE : 1.52 mm, AT 2 h FOR 3 DIRECTIONS.			① CONTACT RESISTANCE: 55 mΩ MAX.		x		
SHOCK	490 ms 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: 55 mΩ MAX.			x		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE:55→+15~+35→+85→+15~+35°C TIME 30 → 10~15 → 30 → 10~15 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: 55 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		② NO HEAVY CORROSION.			x		
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240±3°C, FOR IMMERSION DURATION, 2s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.			x		
			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.		ELC4-082756-25				
HRS		SPECIFICATION SHEET		PART NO.		FX2-20S-1. 27SVL (95)		
HIROSE ELECTRIC CO., LTD.		CODE NO.		CL572-2151-1-95		△ 1/1		
		APPROVED		HS. OKAWA		11.06.22		
		CHECKED		HT. YAMAGUCHI		11.06.22		
		DESIGNED		SY. KAMIGA		11.06.22		
		DRAWN		HK. SUMADORI		11.06.21		