

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		TEST METHOD		REQUIREMENTS		Q	AT
OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>			X	X
VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %			X	X
CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>				
<b>SPECIFICATIONS</b>							
ITEM	TEST METHOD		REQUIREMENTS				
CONSTRUCTION							
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.				
MARKING	CONFIRMED VISUALLY.						
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	100 mA (DC OR 1000 HZ).	45 mΩ MAX.	X	-			
CONTACT RESISTANCE 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							
MECHANICAL OPERATION							
500 TIMES INSERTIONS AND EXTRACTIONS.							
① CONTACT RESISTANCE: 55 mΩ MAX.							
② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.							
VIBRATION							
FREQUENCY 10 TO 55 Hz,							
AMPLITUDE : 1.52 mm,							
AT 2h FOR 3 DIRECTIONS.							
① NO ELECTRICAL DISCONTINUITY OF 1 μs.							
② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.							
SHOCK							
490 ms <sup>2</sup> , 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: 55 mΩ MAX.							
② INSULATION RESISTANCE: 100 MΩ MIN.							
RAPID CHANGE OF TEMPERATURE							
TEMPERATURE: -55 → +15 ~ +35 → +85 → +15 ~ +35 °C							
TIME 30 → 10 ~ 15 → 30 → 10 ~ 15 min.							
③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.							
CORROSION SALT MIST							
EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.							
① CONTACT RESISTANCE: 55 mΩ MAX.							
② NO HEAVY CORROSION.							
X							
-							
HYDROGEN SULPHIDE							
EXPOSED IN 3 PPM FOR 96h. (TEST STANDARD: JEIDA 38)							
X							
-							
RESISTANCE TO SOLDERING HEAT							
① REFLOW SOLDERING: 250 °C MAX, : 220 °C MIN, FOR 60 s							
NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.							
X							
-							
SOLDERABILITY							
② SOLDERING IRONS : 360 °C, FOR 5 s							
X							
-							
SOLDERED AT SOLDER TEMPERATURE: ±3°C, FOR IMMERSION DURATION, 2 s.							
① 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 <sup>(1)</sup> 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.	ELC4-082752-21				
<b>HRS</b>		SPECIFICATION SHEET	PART NO.	FX2-20P-1. 27SVL (71)			
		HIROSE ELECTRIC CO., LTD.	CODE NO.	CL572-2051-7-71			
			APPROVED	HS. OKAWA	06.02.13		
			CHECKED	HS. OZAWA	06.02.13		
			DESIGNED	K.Y. NAKAMURA	06.02.10		
			DRAWN	AK. SUZUKAWA	06.02.09		