

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/T	AT		
OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C <sup>(1)</sup>	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>						
VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %						
CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % <sup>(2)</sup>						
SPECIFICATIONS									
ITEM	TEST METHOD			REQUIREMENTS			Q/T	AT	
CONSTRUCTION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			X	X
GENERAL EXAMINATION		CONFIRMED VISUALLY.						X	X
MARKING								X	X
ELECTRIC CHARACTERISTICS									
CONTACT RESISTANCE	100 mA (DC OR 1000 HZ).		45 m $\Omega$ MAX.			X	-		
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000HZ)		55 m $\Omega$ MAX.			X	-		
INSULATION RESISTANCE	250 V DC		100 M $\Omega$ 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: 88.2 N MAX. WITHDRAWAL FORCE: 9.8 N MIN.			X	-
MECHANICAL OPERATION		500 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 55 m $\Omega$ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	-
VIBRATION		FREQUENCY 10 TO 55 HZ, AMPLITUDE : 1.52 mm, AT 2h FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 $\mu$ s. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X	-
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 $\pm$ 2 °C, 90 ~ 95%, 96 h.			① CONTACT RESISTANCE: 55 m $\Omega$ MAX. ② INSULATION RESISTANCE: 100 M $\Omega$ MIN.			X	-
RAPID CHANGE OF TEMPERATURE		TEMPERATURE: 55 $\rightarrow$ +15 $\sim$ +35 $\rightarrow$ +85 $\rightarrow$ +15 $\sim$ +35 $\circ$ C TIME 30 $\rightarrow$ 10 $\sim$ 15 $\rightarrow$ 30 $\rightarrow$ 10 $\sim$ 15 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: 55 m $\Omega$ 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 $\pm$ 3 $\circ$ C, FOR IMMERSION DURATION, 2s.			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED.			X	-
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE					
$\nabla$									
REMARK <sup>(1)</sup> TEMPERATURE RISE INCLUDED WHEN ENERGIZED. <sup>(2)</sup> THIS STORAGE INDICATES A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE THE BOARD MOUNTED.									
Unless otherwise specified, refer to MIL-STD-1344.		DRAWING NO.		ELC4-082424-21					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test									
<b>HRS</b>		SPECIFICATION SHEET		PART NO.		FX2-100S-1. 27SV (71)			
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL572-2108-2-71			
						$\nabla$ 1/1			
	APPROVED	HS. OKAWA	06.10.23						
	CHECKED	HS. OZAWA	06.10.20						
	DESIGNED	KY. NAKAMURA	06.10.20						
	DRAWN	AK. SUZUKAWA	06.10.19						