

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 ⁽¹⁾	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C ⁽²⁾				
VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %				
CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % ⁽²⁾				
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
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	100 mA (DC OR 1000 HZ).		45 m Ω MAX.			X	-
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD	20 mV MAX, 1 mA(DC OR 1000HZ)		55 m Ω MAX.			X	-
INSULATION RESISTANCE	250 V DC		100 M Ω 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:	45.9 N MAX.	WITHDRAWAL FORCE:	5.1 N MIN.	X	-
MECHANICAL OPERATION	500 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE:	55 m Ω 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 μ s.		② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
SHOCK	490 ms ² , 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 Ω MAX.	② INSULATION RESISTANCE:	100 M Ω 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 Ω 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			
	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	APPROVED	HS. OKAWA	06.05.23			
		CHECKED	HS. OZAWA	06.05.23			
		DESIGNED	K.Y. NAKAMURA	06.05.23			
		DRAWN	AK. SUZUKAWA	06.05.23			
DRAWING NO.		ELC4-082416-21					
HRS		SPECIFICATION SHEET		PART NO.	FX2-52S-1.27SV (71)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.	CL572-2104-1-71		1/1