

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	50 V AC	OPERATING HUMIDITY RANGE	95 % RH MAX.					
CURRENT	0.3 A	(NO DEW/CONDENSATION IS PERMITTED)						
SPECIFICATIONS								
ITEM	TEST METHOD			REQUIREMENTS		Q/T	AT	
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.				
MARKING	CONFIRMED VISUALLY.					X	X	
ELECTRIC CHARACTERISTICS								
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).		60 m Ω MAX.			X		
INSULATION RESISTANCE	100 V DC		100 M Ω MIN.			X		
VOLTAGE PROOF	150 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.			X	X	
MECHANICAL CHARACTERISTICS								
INSERTION AND WITHDRAWAL FORCE	MEASURED BY APPLICABLE CONNECTOR.		INSERTION FORCE:	72 N MAX.		X		
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.		WITHDRAWAL FORCE:	3.0 N MIN.				
			① CONTACT RESISTANCE:	70 m Ω MAX.		X		
			② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.					
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, WITH 10 CYCLES IN 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μ s.			X		
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms, 3 TIMES IN 3 DIRECTIONS.		② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			X		
ENVIRONMENTAL CHARACTERISTICS								
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 \pm 2 °C, 90 ~ 95 %, 96 h.	① CONTACT RESISTANCE:	70 m Ω MAX.			X		
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 \rightarrow +15 \sim +35 \rightarrow +85 \rightarrow +15 \sim +35 \circ C TIME 30 \rightarrow 2 \sim 3 \rightarrow 30 \rightarrow 2 \sim 3 min. UNDER 5 CYCLES.	② INSULATION RESISTANCE:	100 M Ω MIN.			X		
		③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.						
DRY HEAT	EXPOSED AT 85 °C, 96h.	① CONTACT RESISTANCE:	70 m Ω MAX.			X		
COLD	EXPOSED AT -55 °C, 96h.	② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.				X		
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090)	① CONTACT RESISTANCE:	70 m Ω MAX.			X		
		② NO HEAVY CORROSION.						
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 MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.				X		
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE: 240 \circ C, FOR IMMERSION DURATION, 3 sec.	NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.				X		
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE				
Δ								
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 JIS C 5402.		DRAWING NO.		ELC4-151969-25				
Note Q/T: Qualification Test AT: Assurance Test X: Applicable Test								
HRS		SPECIFICATION SHEET		PART NO.		FX10A-120P-SV1 (71)		
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL570-0142-7-71		
						Δ 1/1		