

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⁾				
	VOLTAGE	50 V AC		OPERATING HUMIDITY RANGE	RELATIVE HUMIDITY 95 % RH MAX. ⁽³⁾				
	CURRENT	0.3 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).			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:	72.0 N MAX.			X	-
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.			WITHDRAWAL FORCE:	3.0 N MIN.			X	-
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, AT 10 CYCLES FOR 3 DIRECTIONS.			① CONTACT RESISTANCE: 70 m Ω MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X	-
SHOCK	490 m/s ² , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μ s. 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. ② INSULATION RESISTANCE: 100 M Ω MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X	-
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 \rightarrow +15 \rightarrow +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.			① CONTACT RESISTANCE: 70 m Ω MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X	-
DRY HEAT	EXPOSED AT 85 °C, 96h.			① CONTACT RESISTANCE: 70 m Ω MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X	-
COLD	EXPOSED AT -55 °C, 96h.			① CONTACT RESISTANCE: 70 m Ω MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X	-
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.			① CONTACT RESISTANCE: 70 m Ω MAX. ② 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. ② NO HEAVY CORROSION.				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 TERMINAL.				X	-
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 240 \circ C, FOR IMMERSION DURATION, 3 s.			A NEW UNIFORM COATING OF SOLDER SHALL OVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSERD.				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. ⁽³⁾ NO DEW CONDENSATION IS PERMITTED.									
Unless otherwise specified, refer to JIS C 5402.				DRAWING NO.		ELC4-151969-21			
Note QT: Qualification Test AT: Assurance Test X: Applicable Test									
HRS		SPECIFICATION SHEET		PART NO.		FX10A-120P-SV1 (91)			
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL570-0142-7-91			
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