

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 (1)	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C (2)	X	X		
VOLTAGE	100 V AC	OPERATING HUMIDITY RANGE	40 % TO 80 %	X	X		
CURRENT	0.5 A	STORAGE HUMIDITY RANGE	40 % TO 70 % (2)	X	X		
SPECIFICATIONS							
ITEM	TEST METHOD	REQUIREMENTS	Q	AT			
CONSTRUCTION		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).	40 mΩ MAX.	X	-			
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)	50 mΩ MAX.	X	-			
MILLIVOLT LEVEL METHOD							
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		100 TIMES INSERTIONS AND EXTRACTIONS.		① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
VIBRATION		FREQUENCY 10 TO 55 Hz, AMPLITUDE : 1.5 mm, AT 2h FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X	-
SHOCK		490 m/s <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 hrs.		① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN.		X	-
RAPID CHANGE OF TEMPERATURE		TEMPERATURE: -55 → +15 ~ +35 → +85 → +15 ~ +35 °C TIME 30 → MAX 5 → 30 → MAX 5 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: 50 mΩ 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 ± 3 °C, FOR IMMERSION DURATION, 3 s.		A NEW UNIFORM COATING OF SOLDER SHALL COVER 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.				APPROVED	HS. OKAWA	06.02.22	
				CHECKED	HS. OZAWA	06.02.22	
				DESIGNED	TK. YANAGISAWA	06.02.22	
				DRAWN	TK. YANAGISAWA	06.02.22	
Note QT: Qualification Test AT: Assurance Test X: Applicable Test		DRAWING NO.		ELC4-071316-22			
<b>HRS</b>		SPECIFICATION SHEET		PART NO.		FX6A-20P-0.8SV2 (92)	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL576-0241-7-92	
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