

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 <sup>(1)</sup>		STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C <sup>(2)</sup>				
	VOLTAGE	50 V AC		OPERATING HUMIDITY RANGE	95 % RH MAX.				
	CURRENT	0.3 A		(NO DEW CONDENSATION IS PERMITTED)					
SPECIFICATIONS									
ITEM	TEST METHOD			REQUIREMENTS			QT	AT	
CONSTRUCTION		GENERAL EXAMINATION VISUALLY AND BY MEASURING INSTRUMENT. CONFIRMED VISUALLY.			ACCORDING TO DRAWING.			x	x
ELECTRIC CHARACTERISTICS		CONTACT RESISTANCE 100 mA (DC OR 1000 Hz).			70 mΩ MAX.			x	
INSULATION RESISTANCES		100 V DC			100 MΩ MIN.			x	
VOLTAGE PROOF		150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			x	x
MECHANICAL CHARACTERISTICS		INSERTION AND WITHDRAWAL FORCE			INSERTION FORCE: 48 N MAX. WITHDRAWAL FORCE: 2 N MIN.			x	
MECHANICAL OPERATION		50 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 80 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			x	
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE : 0.75 mm, AT 10 CYCLES FOR 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs MIN. 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±2 °C, 90 ~ 95 %, 96 h.			① CONTACT RESISTANCE: 80 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			x	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55→+15~+35→+85→+15~+35°C TIME 30 → 2~3 → 30 → 2~3 min. UNDER 5 CYCLES.						x	
DRY HEAT		EXPOSED AT 85 °C, 96 h.			① CONTACT RESISTANCE: 80 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			x	
COLD		EXPOSED AT -55 °C, 96 h.						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: 80 mΩ 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±3°C, FOR IMMERSION DURATION, 3 s.			A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.			x	
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE					
△									
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 JIS C 5402.									
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		DRAWING NO.		ELC4-152439-02					
<b>HRS</b>		SPECIFICATION SHEET		PART NO.		FX11A-80P-SV (22)			
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL573-0548-0-22			
						△ 1/1			
		APPROVED	HS. OKAWA			11.01.26			
		CHECKED	HT. YAMAGUCHI			11.01.26			
		DESIGNED	SY. KAMIGA			11.01.26			
		DRAWN	HK. SUWADORI			11.01.26			