

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

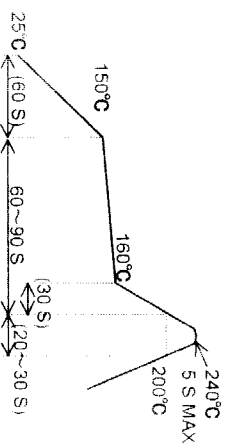
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
1	REF-06478	JM	MD	99-7-29					

APPLICATION STANDARD		STORAGE TEMPERATURE RANGE	RELATIVE HUMIDITY (NO DEW CONDENSATION IS PERMITTED)
OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C	RANGE	-10 °C TO 60 °C
VOLTAGE	AC 50 V	OPERATING HUMIDITY RANGE	95 % MAX
CURRENT	0.3 A		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENT	Q/T	A/T
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT	ACCORDING TO DRAWING		○
MARKING	CONFIRMED VISUALLY.			○
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz)	60 mΩ MAX.		○
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN.		○
VOLTAGE PROOF	150 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		○
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 69.6 N MAX. WITHDRAWAL FORCE: 2.9 N MIN.		○
MECHANICAL OPERATION	50 TIMES INSERTION AND EXTRACTIONS	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.		○
VIBRATION	FREQUENCY: 10 TO 55 Hz. SINGLE AMPLITUDE: 0.75 mm, ... m/s ² AT 10 CYCLES FOR 3 DIRECTIONS.	1) NO ELECTRICAL DISCONTINUITY OF PART. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART		○
SHOCK	490 ms ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.	1) NO DAMAGE, CRACK AND LOOSENESS OF PART		○

ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90~95 %, 96 h.	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN.		○
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→-15~35→ 85→15~35°C TIME 30→ 2~ 3→ 30→ 2~ 3 min. UNDER 5 CYCLES.	3) NO DAMAGE, CRACK AND LOOSENESS OF PART.		○
DRY HEAT	EXPOSED AT 85 °C, 96 h.	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART		○
COLD	EXPOSED AT -55 °C, 96 h.	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART		○
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	NO HEAVY CORROSION.		○
SULPHUR DIOXIDE	EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JIS C 0090)	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO HEAVY CORROSION.		○
RESISTANCE TO SOLDERING HEAT	REFLOW RECOMMENDED TEMPERATURE PROFILE	NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT.		○



SOLDERABILITY		TO BE TESTED UNDER THE ABOVE CONDITIONS	
	SOLDERED AT SOLDER TEMPERATURE.		
	235 °C FOR IMMERSION DURATION, 2 s	NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.	○

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402.	S. Kitajima 99.05.25	J. Matsukawa 99.05.25	M. Ishida 99.05.26	Y. Yoshimura 99.05.27	

NOTE Q1: QUALIFICATION TEST AT ASSURANCE TEST O: APPLICABLE TEST

HRS HIROSE ELECTRIC CO., LTD. **SPECIFICATION SHEET** PART NO. **FX11LA - 116S - SV**

CODE NO.(OLD) _____ DRAWING NO. **ELC4 - 152118-** CODE NO. **CL 573 - 0144 - 1**



TO
PCK