

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

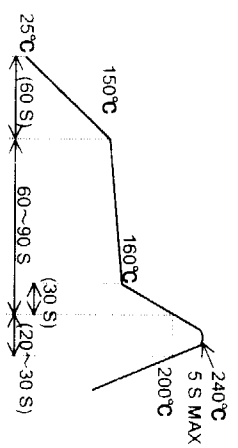
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COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		

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

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENT	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING	X	X
MARKING	CONFIRMED VISUALLY.		X	X
ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	60 mΩ MAX.	X	X
INSULATION RESISTANCE	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 FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 69.6 N MAX WITHDRAWAL FORCE: 2.9 N MIN.	X	-
MECHANICAL OPERATION	50 TIMES INSERTION AND EXTRactions.	1) CONTACT RESISTANCE: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	-
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 1 μs MIN. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	X	-
SHOCK	490 m/s ² 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: 70 mΩ MAX. 2) INSULATION RESISTANCE: 100 MΩ MIN. 3) NO DAMAGE, CRACK AND LOOSENESS OF PART.	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: 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PART.	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 70 mΩ MAX. 2) NO HEAVY CORROSION.	X	-
RESISTANCE TO SOLDERING HEAT	REFLOW RECOMMENDED TEMPERATURE PROFILE	NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT	X	-



SOLDRABILITY	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.	X	-
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REMARKS				
UNLESS OTHERWISE SPECIFIED, REFER TO JIS C 5402				
NOTE	QT: QUALIFICATION TEST	AT: ASSURANCE TEST	X: APPLICABLE TEST	
	99.10.25	99.10.25	99.10.26	99.10.26

HRS	HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO.	FX111LA - 116P - SV (21)
	DRAWING NO.			
CODE NO. (OLD)	CL		1	1

TO PCK