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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
△						△					
△						△					
APPLICATION STANDARD											
RATING	OPERATING TEMPERATURE RANGE		-55 °C TO 85 °C			STORAGE TEMPERATURE RANGE		-10 °C TO 60 °C			
	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).				70 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: 60 N MAX WITHDRAWAL FORCE: 2.5 N MIN.				X	-
MECHANICAL OPERATION		50 TIMES INSERTION AND EXTRACTIONS.				1)CONTACT RESISTANCE: 80 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: 80 mΩ MAX. 2)INSULATION RESISTANCE: 100 MΩ MIN.				X	-
RAPID CHAGE OF TEMPERTURE		TEMPERTURE -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.				X	-
DRY HEAT		EXPOSED AT 85 °C, 96 h.				1)CONTACT RESISTANCE: 80 mΩ MAX.				X	-
COLD		EXPOSED AT -55 °C. 96 h.				2)NO DAMAGE, CRACK AND LOOSENESS OF PART.				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		REFLOW RECOMMENDED TEMPERATURE PROFILE <p>25°C (60 S) 150°C 160°C 240°C 5 S MAX 200°C (30 S) (20~30 S)</p>				NO MELTING OF RESIN WHICH AFFECTS THE PERFORMANCE OF COMPONENT				X	-
SOLDRABILITY		SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s.				NO PINHOLE OR DEWETTING ON SOLDERED SURFACE.				X	-
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED		
					<i>Matsukawa</i>	<i>Matsukawa</i>	<i>M. Ishida</i>	<i>Y. Yoshimura</i>			
UNLESS OTERWISE SPECIFIED, REFER TO JIS C 5402.					00.01.15	00.01.15	00.01.17	00.01.17			
NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST											
HS HIROSE ELECTRIC CO. LTD.				SPECIFICATION SHEET				PART NO. FX11B - 100P - SV0.5			
CODE NO. (OLD) CL			DRAWING NO. ELC4 - 152628 -			CODE NO. CL 573 - 0653 - 5 -			1 1		

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