

APPLICABLE STANDARD		PC Card Standard			
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C		STORAGE TEMPERATURE RANGE	-40 °C TO +70 °C
	VOLTAGE	1~68: AC 125V		OPERATING HUMIDITY RANGE	95%MAXIMUM (NON-CONDENSING)
	CURRENT	1~68: 0.5A			
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	QT AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	× ×
MARKING		CONFIRMED VISUALLY.			× ×
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE (LOW LEVEL) [MIL-STD-1344A] METHOD 3002.1		OPEN VOLTAGE 20 mV AC MAX, TEST CURRENT 1mA.		INITIALLY 60mΩ MAXIMUM.	× -
WITHSTANDING VOLTAGE METHOD 301		500 Vrms AC IS APPLIED FOR 1 MINUTE.		NO SHORTING OR OTHER DAMAGES.	× -
INSULATION RESISTANCE METHOD 302		MEASURE WITHIN 1 MINUTE AFTER APPLYING 500 V DC.		INITIALLY 1000 MΩ MINIMUM.	× -
MECHANICAL CHARACTERISTICS					
TOTAL INSERTION FORCE		MEASURED BY APPLICABLE CONNECTOR.		39.2 N MAXIMUM	× -
TOTAL PULLING FORCE				6.67 N MINIMUM AND 39.2 N MAXIMUM	× -
MECHANICAL OPERATION [OFFICE ENVIRONMENT]		10000 TIMES INSERTIONS AND WITH DRAWAL SHALL BE MADE AT THE CYCLE RATE 400~600 CYCLES/h.		① CONTACT RESISTANCE :AFTER TEST 20 mΩ MAXIMUM CHANGE. ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.	× -
VIBRATION AND HIGH FREQUENCY METHOD 204D		FREQUENCY 10 TO 2000 Hz, AMPLITUDE 1.52 mm, 147 m/s <sup>2</sup> PEAK FOR 4 h, IN 3 DIRECTIONS.		① MUST NOT CAUSE CURRENT INTERRUPTION GREATER THAN 100 ns. ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.	× -
SHOCK METHOD 213B		ACCELERATION 490 m/s <sup>2</sup> STANDARD HOLDING TIME 11 ms, SEMI-SINE WAVE FOR 3TIMES IN 3 DIRECTION.			× -
ENVIRONMENTAL CHARACTERISTICS					
MOISTURE RESISTANCE METHOD 106E		10 CYCLES (1 CYCLE=24 HOURS)WITH CONNECTORS ENGAGED. AFTER THE TEST,THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS.		① CONTACT RESISTANCE :AFTER TEST 20 mΩ MAXIMUM CHANGE. ② INSULATION RESISTANCE :AFTER TEST 100 MΩ MINIMUM. ③ NO HEAVY CORROSION.	× -
THERMAL SHOCK METHOD 107G		TEMPERATURE -55 →+5~35 →+85 →+5~35 °C TIME 30 →5 MAX→ 30 → 5MAX min. UNDER 5 CYCLES WITH CONNECTORS ENGAGED. AFTER THE TEST,THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS.		① CONTACT RESISTANCE :AFTER TEST 20 mΩ MAXIMUM CHANGE. ② INSULATION RESISTANCE :AFTER TEST 100 MΩ MINIMUM. ③ NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.	× -
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE
△					
REMARK			APPROVED	KI.AKIYAMA	05.08.12
			CHECKED	KI.AKIYAMA	05.08.12
			DESIGNED	HT.SUGIMURA	05.08.05
			DRAWN	HM.SAITO	05.08.05
Unless otherwise specified, refer to MIL-STD-202F.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-152059-02
HRS	SPECIFICATION SHEET		PART NO.	IC111SA-PL-SF-EJR(90)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL640-1009-9-90	△ 1/

SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
DURABILITY (HIGH TEMPERATURE)  <b>METHOD 108A</b>	EXPOSED AT 85 °C,250 HOURS WITH CONNECTORS ENGAGED. AFTER THE TEST,THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS.	① CONTACT RESISTANCE :AFTER TEST 20 mΩ MAXIMUM CHANGE. ② NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.	×	—	
COLD RESISTANCE  <b>[JIS C 0020]</b>	EXPOSED AT -55 °C,96 HOURS WITH CONNECTORS ENGAGED. AFTER THE TEST,THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS.	① CONTACT RESISTANCE :AFTER TEST 20 mΩ MAXIMUM CHANGE. ② NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.	×	—	
HUMIDITY (NORMAL CONDITION)  <b>METHOD 103B</b>	EXPOSED AT 40±2 °C,90 TO 95 % RH 96 HOURS WITH CONNECTORS ENGAGED. AFTER THE TEST,THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS.	① CONTACT RESISTANCE :AFTER TEST 20 mΩ MAXIMUM CHANGE. ② INSULATION RESISTANCE :AFTER TEST 100 MΩ MINIMUM. ③ NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.	×	—	
HYDROGEN SULPHIDE  <b>[JEIDA-38]</b>	EXPOSED IN 3 PPM HYDROGEN SULFIDE, 40±2°C, APPROX.80% RH,96 HOURS, WITH CONNECTORS ENGAGED. AFTER THE TEST,THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS.	① CONTACT RESISTANCE :AFTER TEST 20 mΩ MAXIMUM CHANGE. ② NO HEAVY CORROSION	×	—	
CORROSION SALT MIST  <b>METHOD 101D</b>	EXPOSED IN 5±1 % SALT WATER SPRAY , 35±2°C,48 HOURS, WITH CONNECTORS ENGAGED. AFTER THE TEST,THE TEST SAMPLE SHALL BE RINSED WITH WATER AND DRIED AT THE AMBIENT TEMP. FOR 24 HOURS.	NO HEAVY CORROSION.	×	—	
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<b>HRS</b>	SPECIFICATION SHEET	PART NO.	IC111SA-PL-SF-EJR(90)		
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