

APPLICABLE STANDARD		PC Card Standard			
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO +85 °C		STORAGE TEMPERATURE RANGE	-40 °C TO +70 °C
	VOLTAGE	1 TO 68: AC 125V		OPERATING HUMIDITY RANGE	95%MAX (NON-CONDENSING)
	CURRENT	1 TO 68: 0.5A			
SPECIFICATIONS					
ITEM		TEST METHOD		REQUIREMENTS	QT AT
CONSTRUCTION					
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	X X
MARKING		CONFIRMED VISUALLY.			X X
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE (LOW LEVEL) [MIL-STD-1344A] METHOD 3002.1		OPEN VOLTAGE 20 mV AC MAX, TEST CURRENT 1mA.		INITIALLY 40mΩ MAX.	X -
WITHSTANDING VOLTAGE METHOD 301		500 Vrms AC IS APPLIED FOR 1 MINUTE.		NO SHORTING OR OTHER DAMAGES.	X -
INSULATION RESISTANCE METHOD 302		MEASURE WITHIN 1 MINUTE AFTER APPLYING 500 V DC.		INITIALLY 1000 MΩ MIN.	X -
MECHANICAL CHARACTERISTICS					
TOTAL INSERTION FORCE		MEASURED BY APPLICABLE CONNECTOR.		39.2 N MAX.	X -
TOTAL PULLING FORCE				6.67 TO 39.2 N	X -
MECHANICAL OPERATION [OFFICE ENVIRONMENT]		10000 TIMES INSERTIONS AND WITH DRAWAL SHALL BE MADE AT THE CYCLE RATE 400 TO 600 CYCLES/h.		1) CONTACT RESISTANCE :AFTER TEST 20 mΩ MAX CHANGE. 2) NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.	X -
VIBRATION AND HIGH FREQUENCY METHOD 204D		FREQUENCY 10 TO 2000 Hz, AMPLITUDE 1.52 mm, 147 m/s ² 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.	X -
SHOCK METHOD 213B		ACCELERATION 490 m/s ² STANDARD HOLDING TIME 11 ms, SEMI-SINE WAVE FOR 3TIMES IN 3 DIRECTIONS.			X -
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 MAX CHANGE. 2) INSULATION RESISTANCE :AFTER TEST 100 MΩ MIN. 3) NO HEAVY CORROSION.	X -
THERMAL SHOCK METHOD 107G		TEMPERATURE -55→+5 TO 35→+85→+5 TO 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 MAX CHANGE. 2) INSULATION RESISTANCE :AFTER TEST 100 MΩ MIN. 3) NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.	X -
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△					
REMARK				APPROVED	KI.AKIYAMA 06.03.17
				CHECKED	SI.TOMIOKA 06.03.16
				DESIGNED	HT.SUGIMURA 06.03.16
				DRAWN	HM.SAITO 06.03.16
Unless otherwise specified, refer to MIL-STD-202F.					
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC4-082873-01
HRS	SPECIFICATION SHEET		PART NO.	IC1G-68PD-1.27DS-EJ(72)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL640-0020-6-72	△ 1/2

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SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS	QT	AT	
DURABILITY (HIGH TEMPERATURE) METHOD 108A	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 MAX CHANGE. 2) NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.	X	—	
COLD RESISTANCE [JIS C 0020]	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 MAX CHANGE. 2) NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.	X	—	
HUMIDITY (NORMAL CONDITION) METHOD 103B	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 MAX CHANGE. 2) INSULATION RESISTANCE :AFTER TEST 100 MΩ MIN. 3) NO HEAVY CORROSION.	X	—	
HYDROGEN SULPHIDE	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 MAX CHANGE. 2) NO HEAVY CORROSION	X	—	
CORROSION SALT MIST METHOD 101D	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.	X	—	
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HRS	SPECIFICATION SHEET	PART NO.	1C1G-68PD-1.27DS-EJ(72)		
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