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.	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 MAXIMUM.	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 MINIMUM.	X	—
MECHANICAL CHARACTERISTICS				
TOTAL INSERTION FORCE	MEASURED BY APPLICABLE CONNECTOR.	39.2 N MAXIMUM	X	—
TOTAL PULLING FORCE		6.67 N MINIMUM AND 39.2 N MAXIMUM.	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 MAXIMUM CHANGE. ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.	X	—
VIBRATION AND HIGH FREQUENCY **METHOD 204D**	FREQUENCY 10 TO 2000 Hz, AMPLITUDE1.52 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 DIRECTION.	① MUST NOT CAUSE CURRENT INTERRUPTION GREATER THAN 100 ns. ② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.	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 MAXIMUM CHANGE. ② INSULATION RESISTANCE :AFTER TEST 100 MΩ MINIMUM. ③ NO HEAVY CORROSION.	X	—
THERMAL SHOCK **METHOD 107G**	TEMPERATURE -55→+5 TO 35→+85→+5 TO 35 °C TIME 30 → 5 MAX → 30 → 5MAXmin. 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.	X	—

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A					

REMARK

Unless otherwise specified, refer to MIL-STD-202F.

APPROVED	KI.AKIYAMA	08.10.28
CHECKED	SI.TOMIOKA	08.10.28
DESIGNED	NH.SUGITA	08.10.28
DRAWN	NH.TAMAI	08.10.27

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-020579-01

HRS	SPECIFICATION SHEET	PART NO.	IC1-68PD-1.27DS(72)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL640-0002-4-72	A 1/2

FORM HD0011-2-1

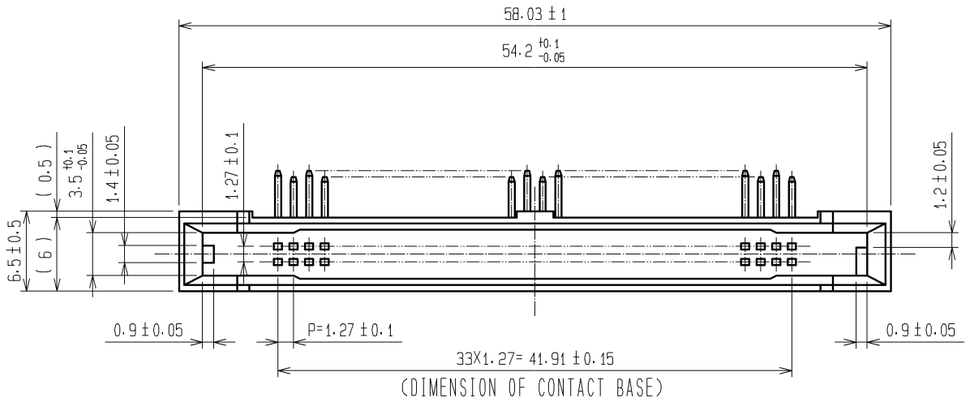
SPECIFICATIONS

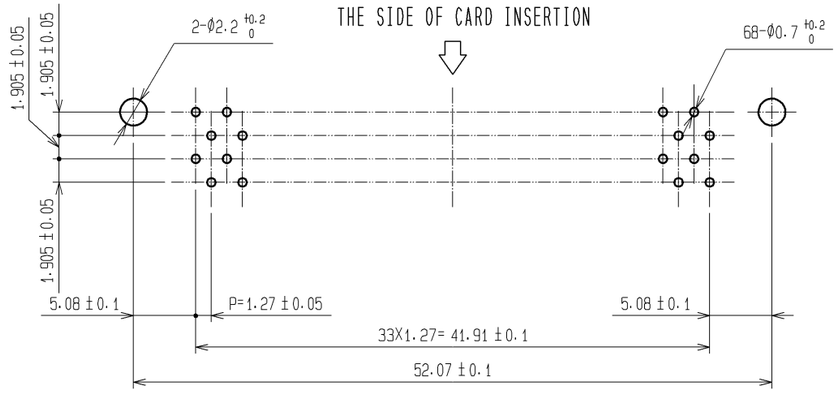
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
DURABILITY (HIGH TEMPERATURE) **METHOD 108A**	EXPOSED AT 85 °C,250 HOURS WITH CONNECTORS ENGAGED. AFTER THE TEST,THE TEST SAMPLE SHALL BE LEFT AT THE AMBIENT TEMP. FOR 1 TO 2 HOURS.	① CONTACT RESISTANCE :AFTER TEST 20 mΩ MAXIMUM CHANGE. ② NO PHYSICAL DAMAGE SHALL OCCUR 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 MAXIMUM 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 MAXIMUM CHANGE. ② INSULATION RESISTANCE :AFTER TEST 100 MΩ MINIMUM. ③ NO PHYSICAL DAMAGE SHALL OCCUR DURING TESTING.	X	—
HYDROGEN SULPHIDE [**JEIDA-38**]	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	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	—

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

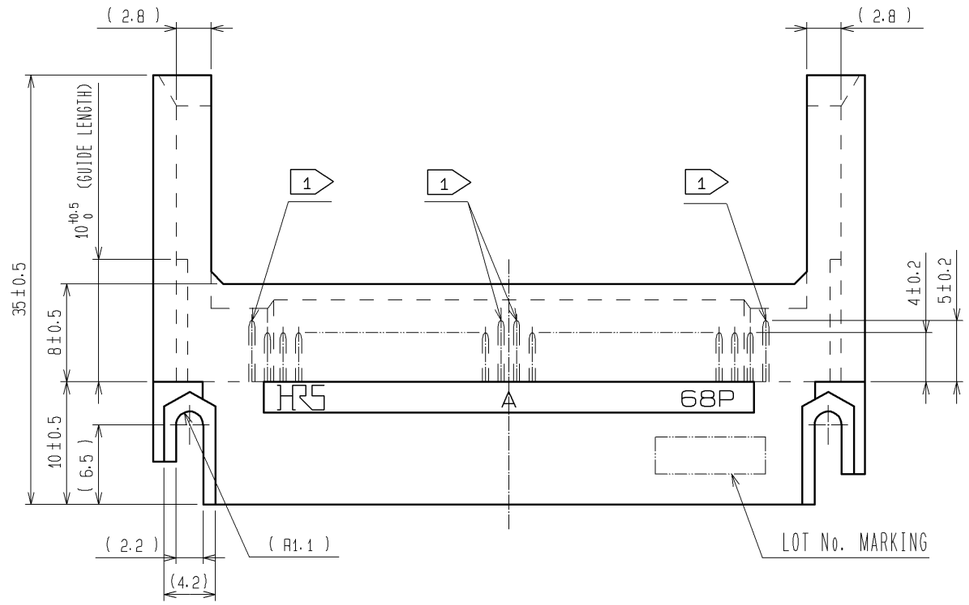
HRS	SPECIFICATION SHEET	DRAWING NO.	ELC4-020579-01
		PART NO.	IC1-68PD-1.27DS(72)
	HIROSE ELECTRIC CO., LTD.	CODE NO	CL640-0002-4-72 △0 2/2

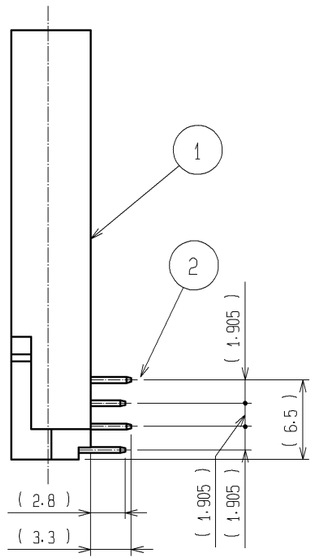
FORM HD0011-2-2

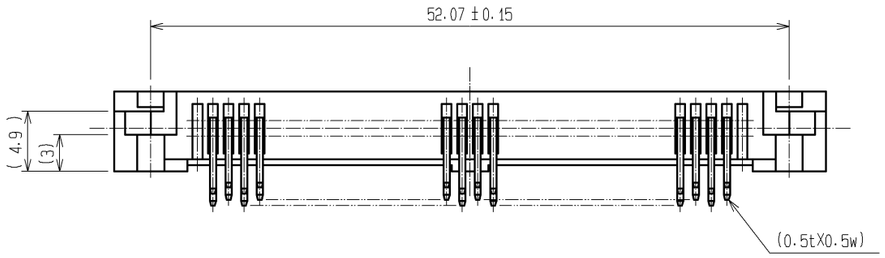




RECOMMENDED PC BOARD PATTERN(t=1.6±0.1)







NOTE 1 THERE ARE TOTAL NUMBER OF 8 SEQUENCE CONTACTS, PLACED AT THE BOTH ENDS AND THE CENTER.

NO.	MATERIAL	FINISH , REMARKS
2	BRASS	CONTACT AREA:Ni2.5μm+Au0.2μm DIP AREA:Ni2.5μm+Sn2μm
1	PBT	BLACK UL94V-0

UNITS mm	SCALE 2 : 1	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE

HIROSE ELECTRIC CO., LTD.

APPROVED	:KI. AKIYAMA	08.10.28	DRAWING NO.	EDC3-020579-01
CHECKED	:SI. TOMIOKA	08.10.28	PART NO.	IC1-68PD-1.27DS(72)
DESIGNED	:NH. SUGITA	08.10.28	CODE NO.	CL640-0002-4-72
DRAWN	:NH. TAMAI	08.10.27		1/1