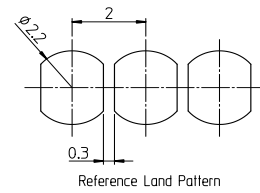
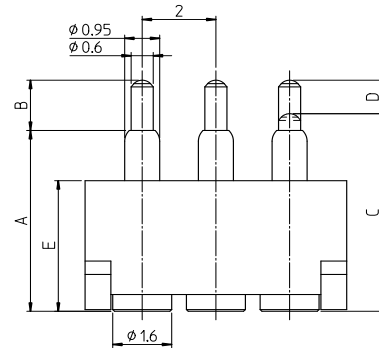
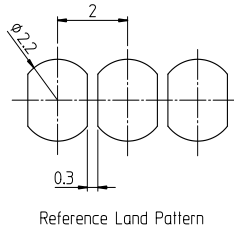
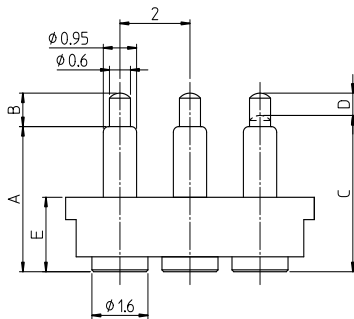
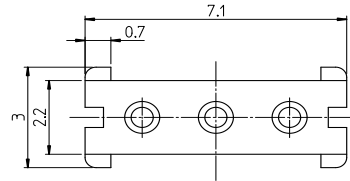
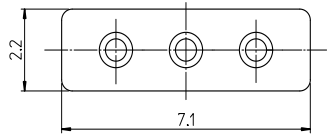


Pogo Pin Connectors_3Pin_2.0mm Pitch_SMD Vertical Series

Basic Specifications

- Rated Current : 1A
- Rated Voltage : AC/DC12V
- Contact Resistance: 50mΩmax
- Operation Temp. : -40°C~+85°C
- Pin Force : 4.9N on a pin from any direction
- Cycle Durability: 20,000 times



Type 3206-3909

Type 4109-5415

Type	Working Height(mm)	Reference Working Range (mm)	Spring Force	Rated Current	Dim.					Part Number
					A	B	C	D	E	
3206	3.4	(3.3-3.5)	1.0N	1A	3.2	0.6	3.4	0.4	2.0	J-3206H-3-20-0000
3306	3.5	(3.4-3.6)	1.0N	1A	3.3	0.6	3.5	0.4	2.0	J-3306H-3-20-0000
3406	3.6	(3.5-3.7)	1.0N	1A	3.4	0.6	3.6	0.4	2.0	J-3406H-3-20-0000
3507	3.7	(3.6-3.85)	1.0N	1A	3.5	0.7	3.7	0.5	2.0	J-3507H-3-20-0000
3607	3.8	(3.7-3.95)	1.0N	1A	3.6	0.7	3.8	0.5	2.0	J-3607H-3-20-0000
3709	4.0	(3.8-4.15)	1.0N	1A	3.7	0.9	4.0	0.6	2.0	J-3709H-3-20-0000
3909	4.2	(4.0-4.35)	1.0N	1A	3.9	0.9	4.2	0.6	2.0	J-3909H-3-20-0000
4109	4.4	(4.2-4.55)	1.0N	1A	4.1	0.9	4.4	0.6	3.9	J-4109H-3-20-0000
4309	4.55	(4.35-4.7)	1.0N	1A	4.25	0.9	4.55	0.6	3.9	J-4309H-3-20-0000
4509	4.75	(4.55-4.9)	1.0N	1A	4.45	0.9	4.75	0.6	3.9	J-4509H-3-20-0000
4709	4.95	(4.75-5.1)	1.0N	1A	4.65	0.9	4.95	0.6	3.9	J-4709H-3-20-0000
4812	5.2	(4.9-5.4)	1.0N	1A	4.8	1.2	5.2	0.8	3.9	J-4812H-3-20-0000
5112	5.5	(5.2-5.7)	1.0N	1A	5.1	1.2	5.5	0.8	3.9	J-5112H-3-20-0000
5415	5.9	(5.5-6.15)	1.0N	1A	5.4	1.5	5.9	1.0	3.9	J-5415H-3-20-0000

Electrical Characteristic

- Rated Current : AC/DC 12V 1A**
- Contact Resistance : 50mΩ**
- Insulation Resistance : 100M Ω MIN**
- Dielectric Strength : 3mA (MAX) leakage**

Mechanical Characteristics

- Pin Force: 1.0N ± 0.2N**
- Pin Strength : 9.8N force on pin from any direction for 1min.**
- Pin Pulling Force : 4.9N force on a pin from axis direction for 1 min**

Other Characteristic

Operational Durability : 20,000 cycles

**Low Temp. Durability : Store in temp. $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ for 96 hours
then ,leaves in the ambient temp. for 1 hour**

**High Temp. Durability: Store in temp. $+85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 96 hours
then ,leaves in the ambient temp. for 1 hour**

Humidity Durability : Store in temp. $+60^{\circ}\text{C} \pm 2^{\circ}\text{C}$ with humidity of 90~95% for 96 hours

**Temp. Cycle Test : Cycle 5 times (Table 1. shows test condition for 1 cycle)
Leave in the ambient temp. for 1 hour.**

Temp. And Humidity Cycle Test: 10 times of a cycle test based on JIS C60068-2-38

Anti-corrosion (Salt Water Spray) : The electrical performance shall be measured after continuous spray of salt water with $5 \pm 1\%$ density and $35 \pm 2^{\circ}\text{C}$ temp. for 48 hours, cleaning with lukewarm water and dry, and leaving in ambient temperature for 1 hours

Vibration Test : Connect each connector pin in series, conducting current of 0.1A. After that the vibration described below is added.
* Amplitude 1.5mm
* Sweeping cycle 10~55~10Hz/minute,
* Duration of test: 2hours for each of X,Y,Z axis

Shock Test : Connect each connector pin in series, conducting current of 0.1A. After that , the shock described below is added.
* Accelerating rate: 490m/s^2
* Operating time of the test: 11ms
* The number of operating times: *3shocks at X,Y,Z axis both.
*In negative and positive direction.

Heat Resistance : The electrical performance shall be measured in ambient temperature after soldering in accordance with the reflow profile Fig 2.

- The specifications shown in this catalogue are subject to change without notice.
- Storage conditions: 35days max in room temperature

Table 1. Temperature Cycle

Step	Temperature($^{\circ}\text{C}$)	Time(minites)
1	-40 ± 3	30 - 35
2	5 - 35	10 - 15
3	85 ± 2	30 - 35
4	5 - 35	10-15

Fig 1. Temp. and Humidity Cycle

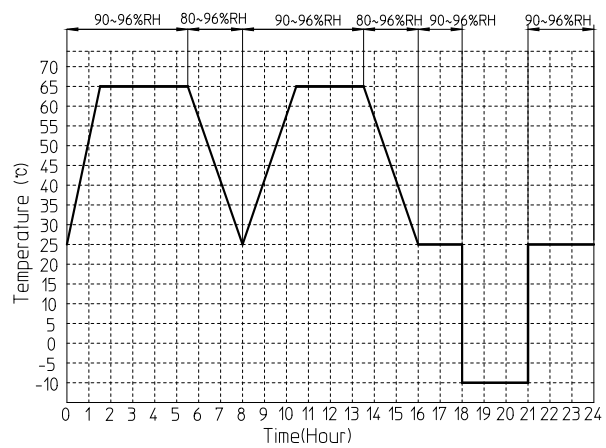


Fig 2. Reflow Profile

