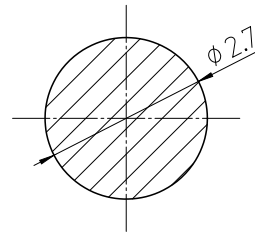
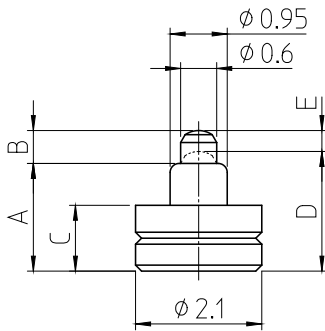


## Pogo Pin Connectors\_1Pin\_SMD Vertical Series

### Basic Specification

**Rated Current :** 0.5A  
**Rated Voltage :** AC/DC12V  
**Contact Resistance:** 250mΩmax  
**Operation Temp. :** -40°C~+85°C  
**Cycle Durability:** 20,000 times



Reference Land Pattern

Type (Dim.AB)	Working Height(mm)	Reference Working Range (mm)	Spring Force	Rated Current	Dim.(mm)					Part Number
					A	B	C	D	E	
1404	1.5	(1.5-1.6)	0.4N	0.5A	1.4	(0.4)	0.7	(1.5)	(0.3)	J-1404PU-1-00-0000
1504	1.6	(1.6-1.7)	0.5N	0.5A	1.5	(0.4)	0.8	(1.6)	(0.3)	J-1504PU-1-00-0000
1604	1.7	(1.7-1.8)	0.5N	0.5A	1.6	(0.4)	0.9	(1.7)	(0.3)	J-1604PU-1-00-0000
1705	1.85	(1.8-1.9)	0.5N	0.5A	1.7	(0.45)	1.0	(1.85)	(0.3)	J-1705PU-1-00-0000
1806	2.0	(1.9-2.05)	0.6N	0.5A	1.8	(0.55)	1.1	(2.0)	(0.35)	J-1806PU-1-00-0000
1907	2.1	(2.05-2.25)	0.6N	0.5A	1.95	(0.65)	1.25	(2.1)	(0.5)	J-1907PU-1-00-0000
2007	2.15	(2.1-2.3)	0.6N	0.5A	2.0	(0.65)	1.3	(2.15)	(0.5)	J-2007PU-1-00-0000
2109	2.4	(2.2-2.55)	0.5N	0.5A	2.1	(0.9)	1.4	(2.4)	(0.6)	J-2109PU-1-00-0000

## **Pogo Pin Connectors\_1Pin\_SMD Vertical Series**

### **Electrical Characteristic**

**Rated Current :** AC/DC 12V 0.5A  
**Contact Resistance :** 250mΩ

### **Mechanical Characteristics**

**Pin Force :** 0.4N ± 0.1N/0.5N ± 0.15N/0.6N ± 0.12N(see above table)  
**Pin Strength :** 9.8N force on pin from any direction for 1 min.

### **Other Characteristic**

**Operational Durability :** 20,000 cycles  
**Low Temp. Durability :** Store in temp. -40°C ± 3°C for 96 hours then ,leaves in the ambient temp. for 1 hour

**High Temp. Durability :** Store in temp. +85°C ± 2°C for 96 hours then ,leaves in the ambient temp. for 1 hour

**Humidity Durability :** Store in temp. +60°C ± 2°C with humidity of 90~95% for 96 hours

**Temp. Cycle Test :** Cycle 5 times (Table1. shows test condition for 1cycle) 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 ± 1% density and 35 ± 2°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<sup>2</sup>  
\* Operating time of the test: 11ms  
\* The number of operating times: \*3shocks at X,Y,Z axis both.\*In negative and positive direction.

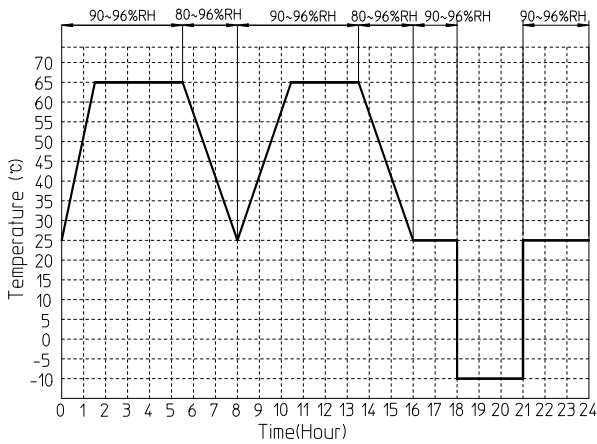
**Heat Resistance :** The electrical performance shall be measured in ambient temperature after soldering in accordance with the reflow profile Fig 2.

## Pogo Pin Connectors\_1Pin\_SMD Vertical Series

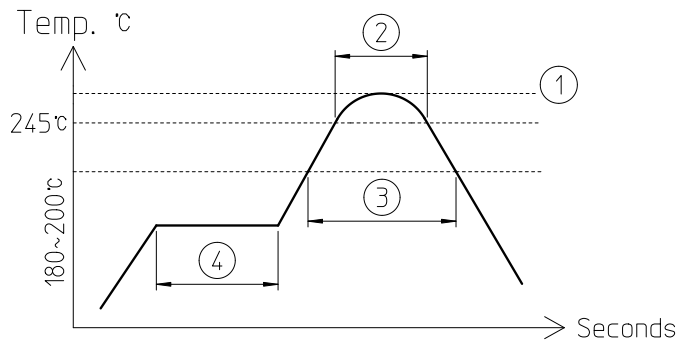
**Table 1. Temperature Cycle**

Step	Temperature(°C)	Time(minites)
<b>1</b>	<b>-40 ± 3</b>	<b>30 - 35</b>
<b>2</b>	<b>5 - 35</b>	<b>10 - 15</b>
<b>3</b>	<b>85 ± 2</b>	<b>30 - 35</b>
<b>4</b>	<b>5 - 35</b>	<b>10 - 15</b>

**Fig 1. Temp. and Humidity Cycle**



**Fig 2. Reflow Profile**



- ① **MAX Temp.250°C**    ② **Peak time (245°C):10sec.MAX**  
 ③ **220°C time:80sec.**    ④ **190°C ± 10°C time:120sec. ± 30sec.**

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