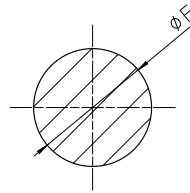
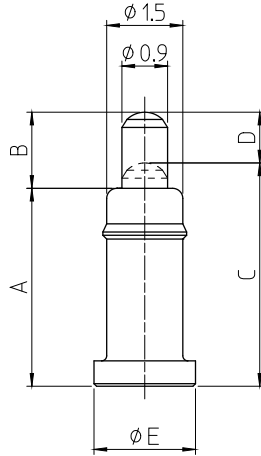


Pogo Pin Connectors_1Pin_SMD Vertical Series

Basic Specification

Rated Current :	0.5A
Rated Voltage :	AC/DC12V
Contact Resistance:	200mΩmax
Operation Temp. :	-40°C~+85°C
Pin Strength :	9.8N on a pin from any direction
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	F	
2307	2.5	(2.4 - 2.65)	0.3N	0.5A	2.3	(0.7)	(2.5)	(0.5)	1.8	2.4	J-2307PL-1-00-0000
2509	2.8	(2.6 - 2.95)	0.3N	0.5A	2.5	(0.9)	(2.8)	(0.6)	1.8	2.4	J-2509PL-1-00-0000
2809	2.1	(2.9 - 3.25)	0.3N	0.5A	2.8	(0.9)	(3.1)	(0.6)	1.8	2.4	J-2809PL-1-00-0000
2910	2.2	(3.0 - 3.4)	0.3N	0.5A	2.9	(1.0)	(3.2)	(0.7)	1.8	2.4	J-2910PL-1-00-0000
3111	2.4	(3.2 - 3.65)	0.3N	0.5A	3.1	(1.1)	(3.4)	(0.8)	1.8	2.4	J-3111PL-1-00-0000
3212	2.5	(3.3 - 3.8)	0.3N	0.5A	3.2	(1.2)	(3.5)	(0.9)	1.8	2.4	J-3212PL-1-00-0000

Pogo Pin Connectors_1Pin_SMD Vertical Series

Electrical Characteristic

Rated Current : AC/DC 12V 0.5A
Contact Resistance : 200mΩ

Mechanical Characteristics

Pin Force : 0.3N ± 0.1N
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/s²
* 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

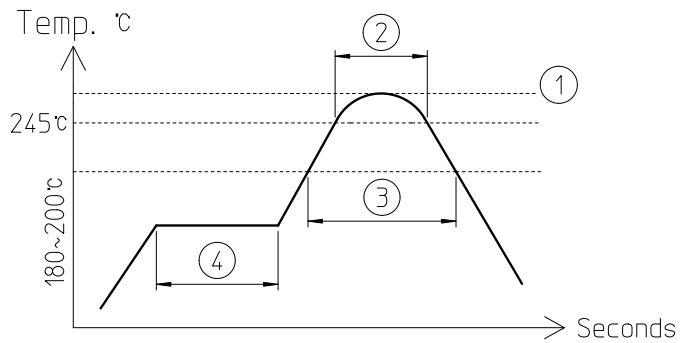
Table 1. Temperature Cycle

Step	Temperature(°C)	Time(minites)
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



- 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**