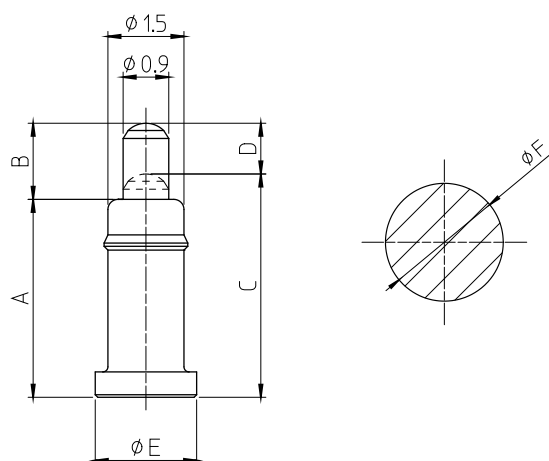


## Pogo Pin Connectors\_1Pin\_SMD Vertical Series



### Basic Specifications

**Rated Current : 2A**  
**Rated Voltage : AC/DC12V**  
**Contact Resistance: 50m $\Omega$ max**  
**Operation Temp. : -40 $^{\circ}$ C~+85 $^{\circ}$ C**  
**Pin Force : 9.8N on a pin from any direction**  
**Cycle Durability: 20,000 times**

Type	Working Height(mm)	Reference Working Range (mm)	Spring Force	Rated Current	Dim.						Part Number
					A	B	C	D	E	F	
2307	2.5	(2.4 - 2.65)	0.9N	2A	2.3	0.7	2.5	0.5	1.8	2.4	J-2307P-1-00-0000
2509	2.8	(2.6 - 2.95)	0.9N	2A	2.5	0.9	2.8	0.6	1.8	2.4	J-2509P-1-00-0000
2809	3.1	(2.9 - 3.25)	1.08N	2A	2.8	0.9	3.1	0.6	1.8	2.4	J-2809P-1-00-0000
2910	3.2	(3.0 - 3.4)	1.08N	2A	2.9	1.0	3.2	0.7	1.8	2.4	J-2910P-1-00-0000
3111	3.4	(3.2 - 3.65)	1.08N	2A	3.1	1.1	3.4	0.8	1.8	2.4	J-3111P-1-00-0000
3212	3.5	(3.3 - 3.8)	1.08N	2A	3.2	1.2	3.5	0.9	1.8	2.4	J-3212P-1-00-0000
3413	3.8	(3.5 - 4.05)	1.08N	2A	3.4	1.3	3.8	0.9	2.0	2.6	J-3413P-1-00-0000
3614	4.0	(3.7 - 4.3)	1.08N	2A	3.6	1.4	4.0	1.0	2.0	2.6	J-3614P-1-00-0000
3915	4.4	(4.0 - 4.65)	1.08N	2A	3.9	1.5	4.4	1.0	2.0	2.6	J-3915P-1-00-0000
4215	4.7	(4.3 - 4.95)	1.08N	2A	4.2	1.5	4.7	1.0	2.5	3.1	J-4215P-1-00-0000
4617	5.2	(4.7 - 5.45)	1.08N	2A	4.6	1.7	5.2	1.1	2.5	3.1	J-4617P-1-00-0000
5117	5.7	(5.2 - 5.95)	1.08N	2A	5.1	1.7	5.7	1.1	2.5	3.1	J-5117P-1-00-0000
5517	6.1	(5.6 - 6.35)	1.08N	2A	5.5	1.7	6.1	1.1	2.5	3.1	J-5517P-1-00-0000
5920	6.6	(6.0 - 6.9)	1.08N	2A	5.9	2.0	6.6	1.3	2.5	3.1	J-5920P-1-00-0000
6220	6.9	(6.3 - 7.2)	1.08N	2A	6.2	2.0	6.9	1.3	2.5	3.1	J-6220P-1-00-0000
6520	7.2	(6.6 - 7.5)	1.08N	2A	6.5	2.0	7.2	1.3	2.5	3.1	J-6520P-1-00-0000
7025	7.8	(7.1 - 8.25)	1.08N	2A	7.0	2.5	7.8	1.7	2.5	3.1	J-7025P-1-00-0000
7525	8.3	(7.6 - 8.75)	1.08N	2A	7.5	2.5	8.3	1.7	2.5	3.1	J-7525P-1-00-0000

### Electrical Characteristic

**Rated Current : AC/DC 12V 2A**  
**Contact Resistance : 50m $\Omega$**

### Mechanical Characteristics

**Pin Force: 0.9N  $\pm$  0.2N / 1.08N  $\pm$  0.25N (See Above Table)**  
**Pin Strength : 9.8N force on pin from any direction for 1min.**

### Other Characteristic

**Operational Durability : 20,000 cycles**  
**Low Temp. Durability : Store in temp. -40 $^{\circ}$ C  $\pm$  3 $^{\circ}$ C for 96 hours**  
**then ,leaves in the ambient temp. for 1 hour**  
**High Temp. Durability: Store in temp. +85 $^{\circ}$ C  $\pm$  2 $^{\circ}$ C for 96 hours**  
**then ,leaves in the ambient temp. for 1 hour**  
**Humidity Durability : Store in temp. +60 $^{\circ}$ C  $\pm$  2 $^{\circ}$ C with humidity of 90~95% for 96 hours**

## Other Characteristic

**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:  $490\text{m/s}^2$   
 \* Operating time of the test: 11ms  
 \* The number of operating times: \*3shocks at X,Y,Z axis both.  
 \*In negative and positive direction.

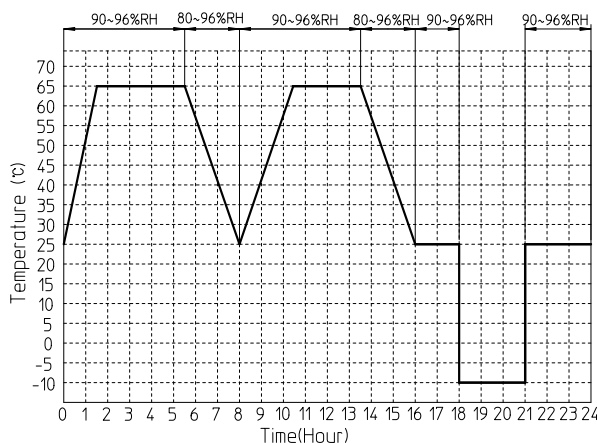
**Heat Resistance :** The electrical performance shall be measured in ambient temperature after soldering in accordance with the reflow profile Fig 2.

- 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(°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**

