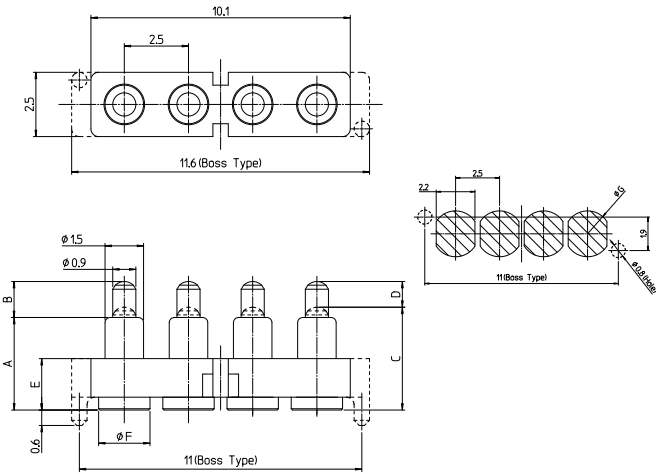


## Pogo Pin Connectors\_4Pin\_2.5mm/3mm Pitch\_SMD Vertical Series

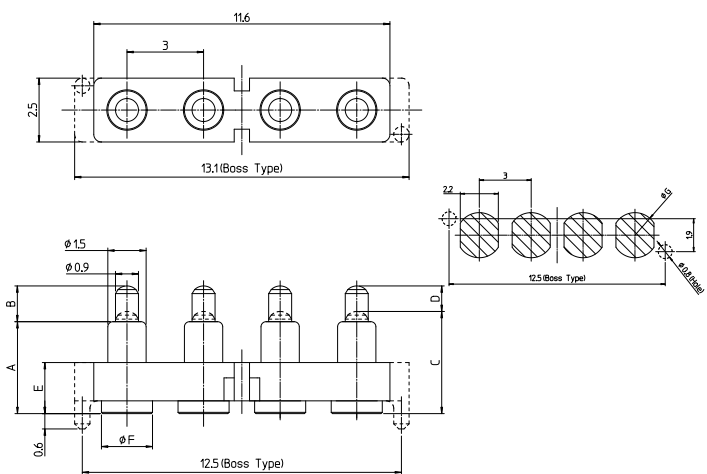
### Basic Specifications

- Rated Current : 2A
- Rated Voltage : AC/DC12V
- Contact Resistance: 50mΩmax
- Operation Temp. : -40°C~+85°C
- Pin Force : 9.8N on a pin from any direction
- Cycle Durability: 20,000 times

#### 2.5mm pitch



#### 3.0mm pitch



Type (Dim.AB)	Working Height(mm)	Reference Working Range (mm)	Spring Force	Rated Current	Dim.							Pin pitch	Part Number (Boss Type=J-XXXX-B-4-0000)
					A	B	C	D	E	F	G		
2307	2.5	(2.4 - 2.65)	0.9N	2A	2.3	0.7	2.5	0.5	2.0	1.8	2.4	2.5	J-2307H-4-25-0000 J-2307B-4-25-0000
												3.0	J-2307H-4-30-0000 J-2307B-4-30-0000
2509	2.8	(2.6 - 2.95)	0.9N	2A	2.5	0.9	2.8	0.6	2.0	1.8	2.4	2.5	J-2509H-4-25-0000 J-2509B-4-25-0000
												3.0	J-2509H-4-30-0000 J-2509B-4-30-0000
2809	3.1	(2.9 - 3.25)	1.08N	2A	2.8	0.9	3.1	0.6	2.0	1.8	2.4	2.5	J-2809H-4-25-0000 J-2809B-4-25-0000
												3.0	J-2809H-4-30-0000 J-2809B-4-30-0000
2910	3.2	(3.0 - 3.4)	1.08N	2A	2.9	1.0	3.2	0.7	2.0	1.8	2.4	2.5	J-2910H-4-25-0000 J-2910B-4-25-0000
												3.0	J-2910H-4-30-0000 J-2910B-4-30-0000
3111	3.4	(3.2 - 3.65)	1.08N	2A	3.1	1.1	3.4	0.8	2.0	1.8	2.4	2.5	J-3111H-4-25-0000 J-3111B-4-25-0000
												3.0	J-3111H-4-30-0000 J-3111B-4-30-0000
3212	3.5	(3.3 - 3.8)	1.08N	2A	3.2	1.2	3.5	0.9	2.0	1.8	2.4	2.5	J-3212H-4-25-0000 J-3212B-4-25-0000
												3.0	J-3212H-4-30-0000 J-3212B-4-30-0000
3413	3.8	(3.5 - 4.05)	1.08N	2A	3.4	1.3	3.8	0.9	2.0	2.0	2.6	2.5	J-3413H-4-25-0000 J-3413B-4-25-0000
												3.0	J-3413H-4-30-0000 J-3413B-4-30-0000
3614	4.0	(3.7 - 4.3)	1.08N	2A	3.6	1.4	4.0	1.0	2.0	2.0	2.6	2.5	J-3614H-4-25-0000 J-3614B-4-25-0000
												3.0	J-3614H-4-30-0000 J-3614B-4-30-0000
3915	4.4	(4.0 - 4.65)	1.08N	2A	3.9	1.5	4.4	1.0	2.0	2.0	2.6	2.5	J-3915H-4-25-0000 J-3915B-4-25-0000
												3.0	J-3915H-4-30-0000 J-3915B-4-30-0000
4215	4.7	(4.3 - 4.95)	1.08N	2A	4.2	1.5	4.7	1.0	4.0	2.0	2.6	2.5	J-4215H-4-25-0000 J-4215B-4-25-0000
												3.0	J-4215H-4-30-0000 J-4215B-4-30-0000
4617	5.2	(4.7 - 5.45)	1.08N	2A	4.6	1.7	5.2	1.1	4.0	2.0	2.6	2.5	J-4617H-4-25-0000 J-4617B-4-25-0000
												3.0	J-4617H-4-30-0000 J-4617B-4-30-0000
5117	5.7	(5.2 - 5.95)	1.08N	2A	5.1	1.7	5.7	1.1	4.0	2.0	2.6	2.5	J-5117H-4-25-0000 J-5117B-4-25-0000
												3.0	J-5117H-4-30-0000 J-5117B-4-30-0000
5517	6.1	(5.6 - 6.35)	1.08N	2A	5.5	2.0	6.1	1.1	4.0	2.0	2.6	2.5	J-5517H-4-25-0000 J-5517B-4-25-0000
												3.0	J-5517H-4-30-0000 J-5517B-4-30-0000

## Electrical Characteristic

**Rated Current : AC/DC 12V 2A**  
**Contact Resistance : 50mΩ**  
**Insulation Resistance : 100M Ω MIN**  
**Dielectric Strength : 3mA (MAX) leakage**

## Mechanical Characteristics

**Pin Force: 0.9N ± 0.2N / 1.08N ± 0.25N (See Above Table)**  
**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°C ± 3°C for 96 hours**  
**then ,leaves in ambient temp. for 1 hour**

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

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

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

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

**Anti-corrosion (Salt Water Spray) :** **The electrical performance shall 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 1hours**

**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.**

- **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)
<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**

