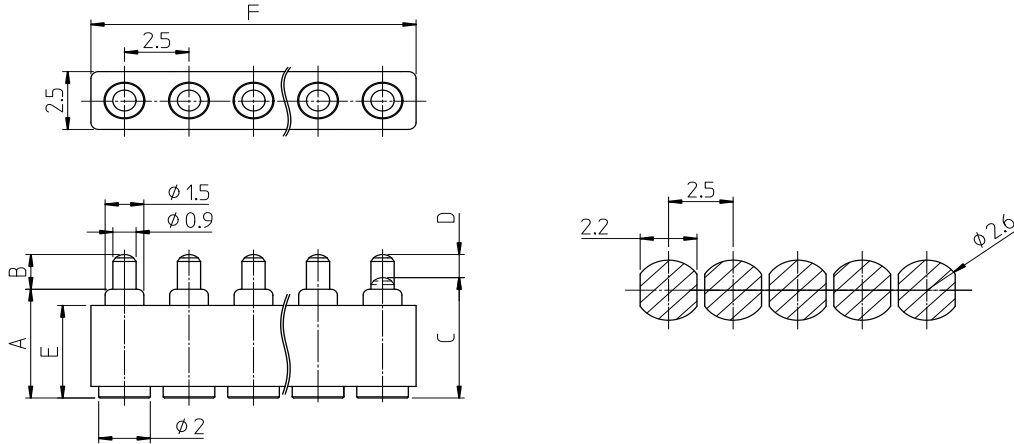


Pogo Pin Connectors_5-9Pin_2.5mm Pitch_SMD Vertical Series

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



Type (Dim.AB)	Working Height(mm)	Reference Working Range (mm)	Spring Force	Rated Current	Dim.						Part Number	
					A	B	C	D	E	F		
5-Pin	4215	4.7	(4.3 - 4.95)	1.08N	2A	4.2	1.5	4.7	1.0	4.0	12.6	J-4215H-5-25-0000
	4617	5.2	(4.7 - 5.45)	1.08N	2A	4.6	1.7	5.2	1.1	4.0	12.6	J-4617H-5-25-0000
	5117	5.7	(5.2 - 5.95)	1.08N	2A	5.1	1.7	5.7	1.1	4.0	12.6	J-5117H-5-25-0000
	5517	6.1	(5.6 - 6.35)	1.08N	2A	5.5	1.7	6.1	1.1	4.0	12.6	J-5517H-5-25-0000
6-Pin	4215	4.7	(4.3 - 4.95)	1.08N	2A	4.2	1.5	4.7	1.0	4.0	15.1	J-4215H-6-25-0000
	4617	5.2	(4.7 - 5.45)	1.08N	2A	4.6	1.7	5.2	1.1	4.0	15.1	J-4617H-6-25-0000
	5117	5.7	(5.2 - 5.95)	1.08N	2A	5.1	1.7	5.7	1.1	4.0	15.1	J-5117H-6-25-0000
	5517	6.1	(5.6 - 6.35)	1.08N	2A	5.5	1.7	6.1	1.1	4.0	15.1	J-5517H-6-25-0000
7-Pin	4215	4.7	(4.3 - 4.95)	1.08N	2A	4.2	1.5	4.7	1.0	4.0	17.6	J-4215H-7-25-0000
	4617	5.2	(4.7 - 5.45)	1.08N	2A	4.6	1.7	5.2	1.1	4.0	17.6	J-4617H-7-25-0000
	5117	5.7	(5.2 - 5.95)	1.08N	2A	5.1	1.7	5.7	1.1	4.0	17.6	J-5117H-7-25-0000
	5517	6.1	(5.6 - 6.35)	1.08N	2A	5.5	1.7	6.1	1.1	4.0	17.6	J-5517H-7-25-0000
8-Pin	4215	4.7	(4.3 - 4.95)	1.08N	2A	4.2	1.5	4.7	1.0	4.0	20.1	J-4215H-8-25-0000
	4617	5.2	(4.7 - 5.45)	1.08N	2A	4.6	1.7	5.2	1.1	4.0	20.1	J-4617H-8-25-0000
	5117	5.7	(5.2 - 5.95)	1.08N	2A	5.1	1.7	5.7	1.1	4.0	20.1	J-5117H-8-25-0000
	5517	6.1	(5.6 - 6.35)	1.08N	2A	5.5	1.7	6.1	1.1	4.0	20.1	J-5517H-8-25-0000
9-Pin	4215	4.7	(4.3 - 4.95)	1.08N	2A	4.2	1.5	4.7	1.0	4.0	22.6	J-4215H-9-25-0000
	4617	5.2	(4.7 - 5.45)	1.08N	2A	4.6	1.7	5.2	1.1	4.0	22.6	J-4617H-9-25-0000
	5117	5.7	(5.2 - 5.95)	1.08N	2A	5.1	1.7	5.7	1.1	4.0	22.6	J-5117H-9-25-0000
	5517	6.1	(5.6 - 6.35)	1.08N	2A	5.5	1.7	6.1	1.1	4.0	22.6	J-5517H-9-25-0000

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. $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 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 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

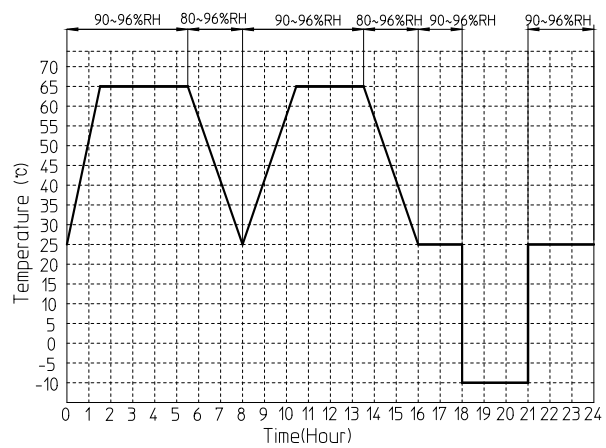


Fig 2. Reflow Profile

