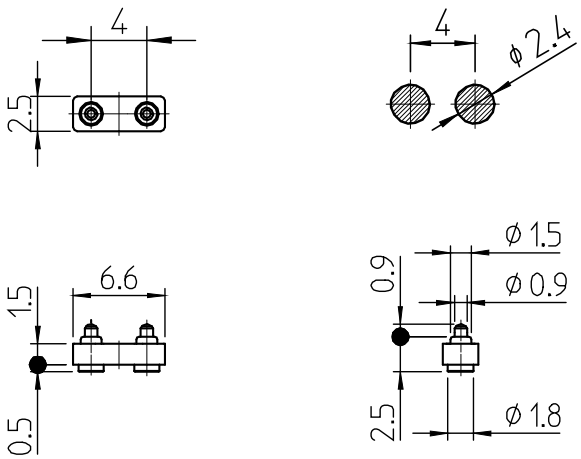
Pogo Pin Connectors_2Pin_4.0mm Pitch_SMD Vertical Series

Basic Specification

Part Number : S-J-2509H-2-40-0000
Rated Current : AC/DC 12V 2A
Contact Resistance: 50mΩ MAX
Operation Temp. : -40℃~+85℃
Cycle Durability: 20,000cycles



Electrical Characteristic

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

Mechanical Characteristics

Pin Force :	**1.2N ± 0.24N**
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 1min.**

Other Characteristic

Operational Durability :	**20,000cycles**
Low Temp. Durability :	**Store in temp. -40℃ ± 3℃ for 96hours then ,leaves in the ambient temperature. for 1hour.**
High Temp. Durability :	**Store in temp. +85℃ ± 2℃for 96hours then ,leaves in the ambient temperature. for 1hour.**
Humidity Durability :	**Store in temp. +60℃ ± 2℃ with humidity of 90~95% for 96hours, then leave in the ambient temperature for 1hours.**
Temp. Cycle Test :	**Cycle 5times (Table1. shows test condition for 1cycle) Leave in the ambient temp. for 1hour.**
Temp. And Humidity Cycle Test :	**Operate cycle test 10times.(Fig1) Then leave in the ambient temp for 1hour. The other issues are in conformity to JIS C60068-2-38.**

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Other Characteristic

Anti-corrosion(Salt Water Spray) : The electrical performance shall be measured after continuous spray of salt water with 5 ± 1% density and 35 ± 2℃ temperature for 48hours, 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: 2hrs 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.

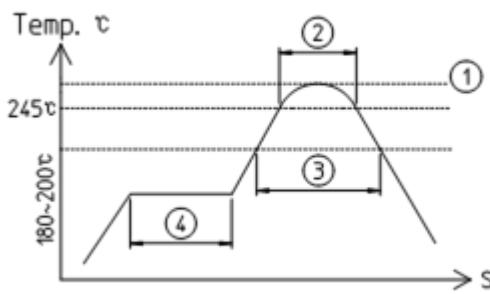
Heat Resistance : The electrical performance shall be measured in ambient temperature after soldering in accordance with the reflow profile Fig 2.

Table 1. Temperature Cycle

Step	Temperature(℃)	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



①MAX Temp : 250℃ ②Peak time (245℃) : 10sec MAX
③220℃ time : 80sec MAX ④190℃ ± 10℃ time : 120sec. ± 30sec

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