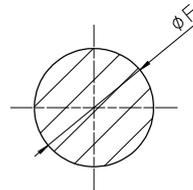
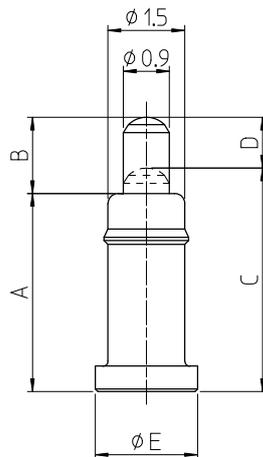


Yokowo SPRING LOADED CONNECTOR

Pogo Pin Connectors_1Pin_Thin Plating Series

Basic Specification

Rated Current : 2.0 A
Rated Voltage : AC/DC12V
Contact Resistance: 50mΩmax
Operation Temp. : -40°C~+85°C
Pin Strength : 9.8N force on pin from any direction for 1min.
Cycle Durability: 20,000 times



Reference Land Pattern

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	T-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	T-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	T-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	T-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	T-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	T-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	T-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	T-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	T-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	T-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	T-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	T-5117P-1-00-0000
5517	6.1	(5.6-6.35)	1.08N	2A	5.5	2.0	6.1	1.1	2.5	3.1	T-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	T-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	T-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	T-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	T-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	T-7525P-1-00-0000

Yokowo SPRING LOADED CONNECTOR

Pogo Pin Connectors_1Pin_ Thin Plating Series

Electrical Characteristic

Rated Current : AC/DC 12V 2.0A
Contact Resistance : 50mΩ

Mechanical Characteristics

Pin Force : 0.9N ± 0.1N/ 1.08N ± 0.1N
Pin Strength : 9.8N force on pin from any direction for 1min.

Other Characteristic

Plating thickness: Pin Plating thickness 0.3μm
Operational Durability : 20,000 cycles
Low Temp. Durability : Store in temp -40°C ± 3°C for 96 hrs,
then leaves in the ambient temperature for 1 hour.

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

Humidity Durability : Store in temp +60°C ± 2°C with humidity of
90 to 95% for 96 hrs,
then leaves in the ambient temperature for 1 hour.

Temperature Cycle Test : Cycle 5 times (Table1 shows test condition for
1cycle). Leave in the ambient temp for 1 hour.

**Temperature And Humidity
Cycle Test :** Operate cycle test 10 times.(Fig1)
Then leave in the ambient temp for 1 hour.
The other issues are in conformity to 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 temperature for 48 hours,
cleaning with lukewarm water and dry, and leaving
in ambient temperature for 1 hour.

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/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_Thin Plating Series

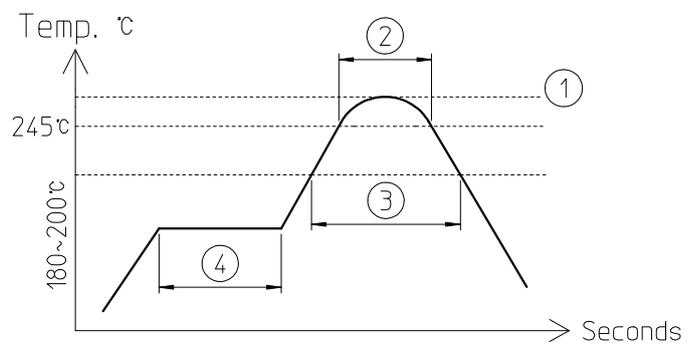
Table 1. Temperature Cycle

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