

Yokowo SPRING LOADED CONNECTOR

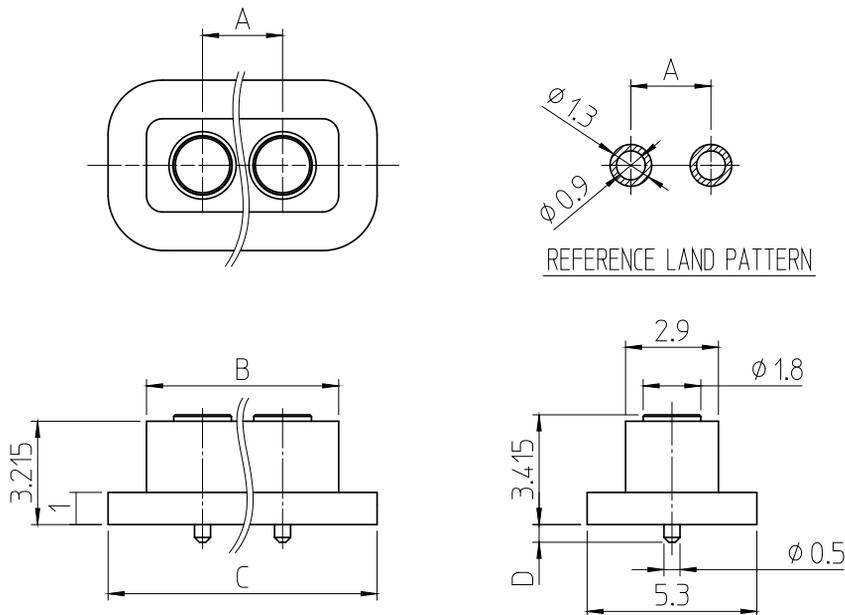
Mating Pad_Through Hole_Water Proof Series

Basic Specification

Rated Current : AC/DC 12V 2A

Operation Temp. : -40°C~+85°C

Waterproof Rating : IPX7



Type (Dim.AB)	Number of Pin	Working Height(mm)	Rated Cyrrnt	Dim.(mm)					Part Number
				Pitch	A	B	C	D	
2200	2	3.415	2.0A	2.5	2.5	6.0	8.4	(0.55)	S-J-2200X-2-25-0000
2200	3	3.415	2.0A	2.5	5.0	8.5	10.9	(0.55)	S-J-2200X-3-25-0000
2200	4	3.415	2.0A	2.5	7.5	11.0	13.4	(0.55)	S-J-2200X-4-25-0000
2200	6	3.415	2.0A	2.5	12.5	16.0	18.4	(0.55)	S-J-2200X-6-25-0000
2200	6	3.415	2.0A	2.5	12.5	16.0	18.4	(1.80)	S-J-2200XL-6-25-0000
2200	7	3.415	2.0A	2.5	15.0	18.5	20.9	(0.55)	S-J-2200X-7-25-0000
2200	8	3.415	2.0A	2.5	17.5	21.0	23.4	(0.55)	S-J-2200X-8-25-0000
2200	9	3.415	2.0A	2.5	20.0	23.5	25.9	(0.55)	S-J-2200X-9-25-0000
2200	10	3.415	2.0A	2.54	22.86	26.0	28.4	(0.55)	S-J-2200X-10-254-0000

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Electrical Characteristic

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

Mechanical Characteristics

Pin Pulling Force :	4.9N force on a pin from axis direction for 1min.
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Other Characteristic

Low Temp. Durability :	Store in temp $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ for 96 hours, then leaves in the ambient temperature for 1 hour.
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High Temp. Durability :	Store in temp $+85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 96 hours, then leaves in the ambient temperature for 1 hour.
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Humidity Durability :	Store in temp $+60^{\circ}\text{C} \pm 2^{\circ}\text{C}$ with humidity of 90 to 95% for 96 hours, then leave in the ambient temperature for 1 hour.
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Temp. Cycle Test :	Cycle 5times(Table 1 shows test condition for 1cycle). Leave in the ambient temp for 1hour.
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Temp. And Humidity Cycle Test :	Operate cycle test 10times.(Fig1) Then leave in the ambient temp for 1 hour. The other issues are in conformity to JIS C60069-2-38.
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Anti-corrosion(Salt Water Spray) :	The electrical performance shall be measured after continuous spray of salt water with $5 \pm 1\%$ density and $35 \pm 2^{\circ}\text{C}$ temperature for 48hours, cleaning with lukewarm water and dry, and leaving in ambient temperature for 1hour.
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Heat Resistance:	The electrical performance shall be measured in ambient temperature after soldering in accordance with the reflow profile Fig.2.
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Waterproof Test(IPX7) :	After expose in reflow(Refer to Fig3), set a connector with the testing fixture(Refer to Fig3) and submerge in water at 1m depth for 30min.
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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

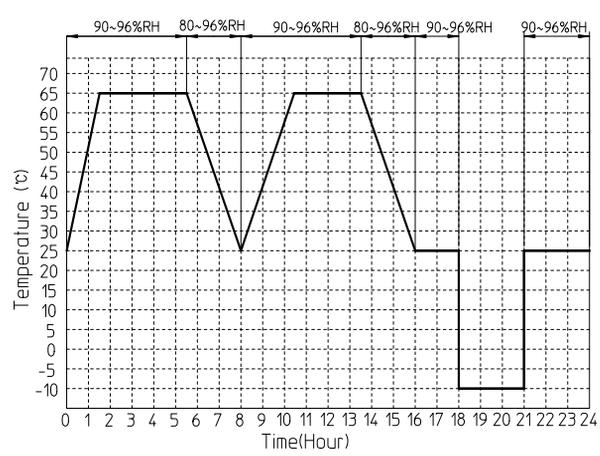


Fig 2. Reflow Profile

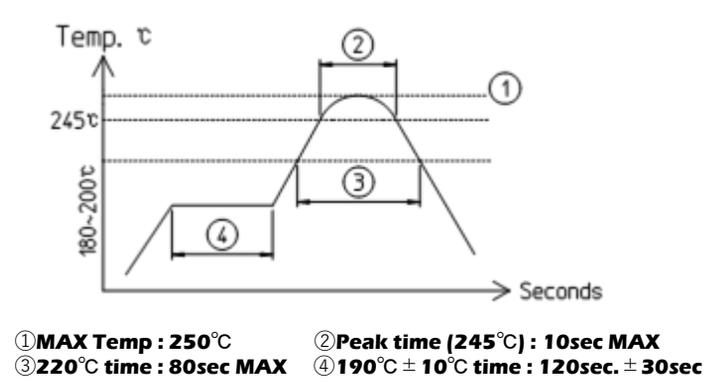
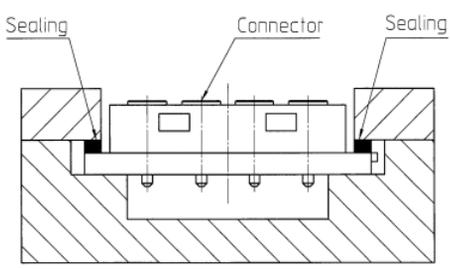


Fig 3. Test fixture for waterproof



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