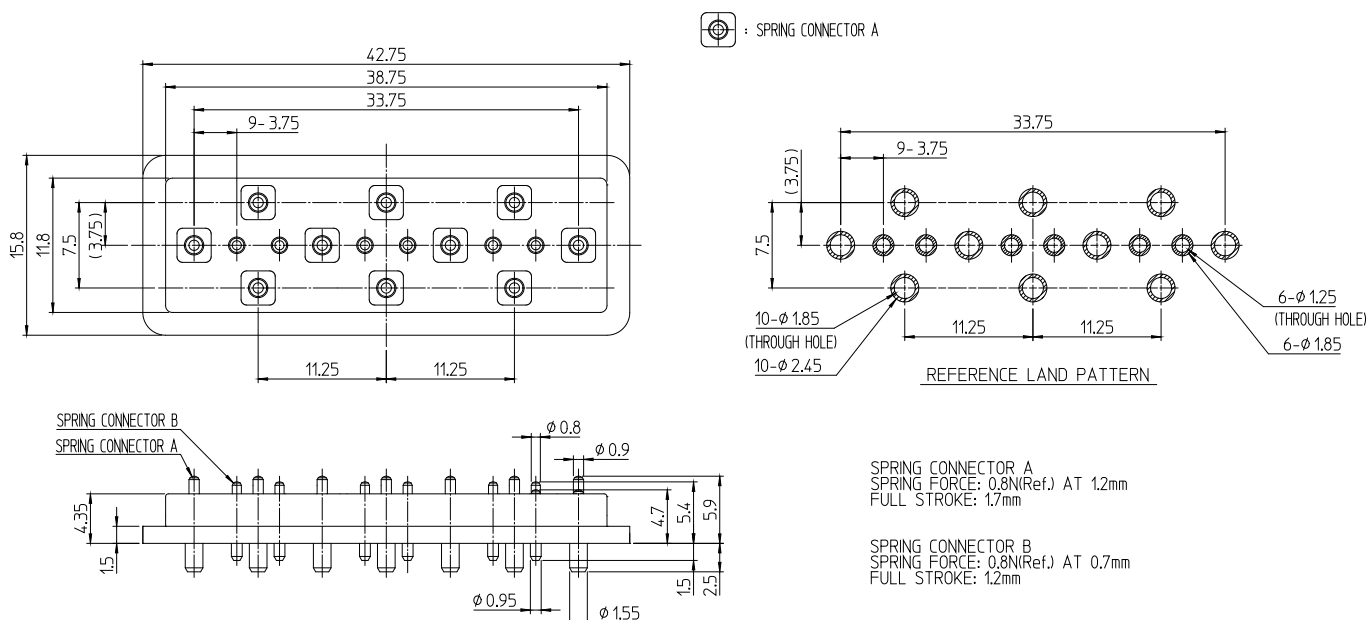


Yokowo SPRING LOADED CONNECTOR

Pogo Pin Connectors_16Pin_3.75mm Pitch_Through Hole_Water Proof_High Speed Transmission Series

Basic Specification

Part Number :	S-J-6717XG-16-375-0000	
Rated Current :	Spring connector A	AC/DC 20V 2A
	Spring connector B	AC/DC 20V 1A
Contact Resistance :	50mΩ MAX	
Operation Temp. :	-40°C~+85°C	
Pin Strength :	9.8N on a pin from any direction	
Cycle Durability :	20,000 times	
Waterproof Rating :	IPX7	



Electrical Characteristic

Rated Current :	Spring connector A	AC/DC 20V 2A
	Spring connector B	AC/DC 20V 1A
Contact Resistance :	50mΩ MAX	
Insulation Resistance :	100M Ω MIN	
Dielectric Strength :	3mA (MAX) leakage	

Mechanical Characteristics

Pin Force :	0.8N ± 0.2N
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 :	20,000 times
Low Temp. Durability :	Store in temp -40°C ± 3°C for 96 hours, then leaves in the ambient temperature for 1 hour.
High Temp. Durability :	Store in temp +85°C ± 2°C for 96 hours, then leaves in the ambient temperature for 1 hour.

Pogo Pin Connectors_16Pin_3.75mm Pitch_SMD Vertical_Water Proof_High Speed Transmission Series

Other Characteristic

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.
Temp. Cycle Test :	Cycle 5times(Table 1 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 1 hour. The other issues are in conformity to JIS C60069-2-38.
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.
Vibration Test :	Connect each connector pin in series, conducting current of 0.1A. After that, the vibration described below is added. * Amplitude: 1.5mm * Sweep cycle: 10~55~10Hz/minute * Duration of test: 2hrs for each of X,Y,Z axis. (total 6 hours)
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 * Operation time of the test: 11ms * The number of operating times: 3shocks at X,Y,Z, axis both in negative and positive direction. (18 times in total)
Heat Resistance:	The electrical performance shall be measured in ambient temperature after soldering in accordance with the reflow profile Fig.2.
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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Other Characteristic

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

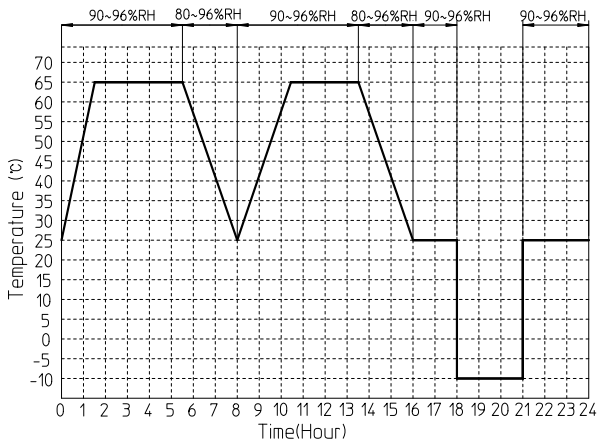


Fig 2. Reflow Profile

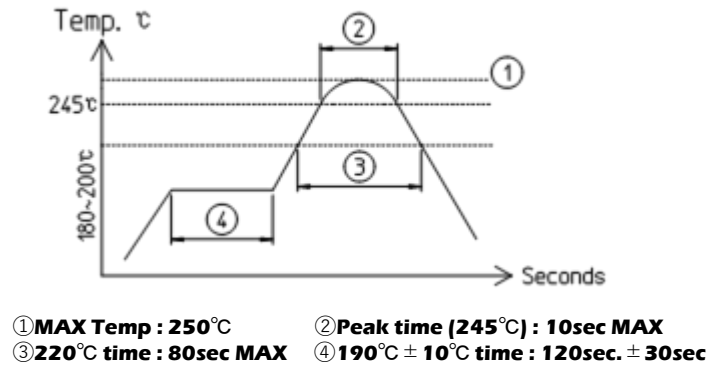
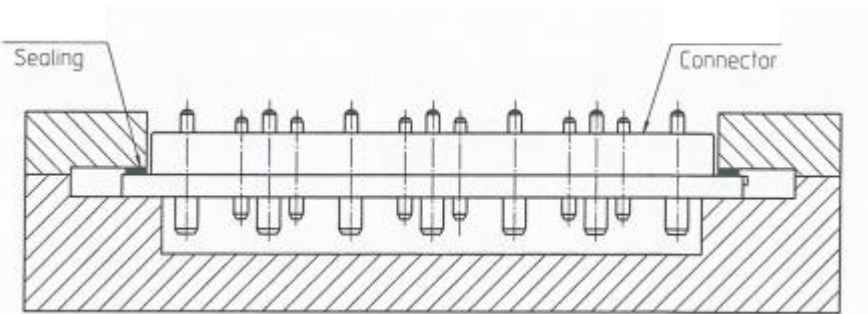


Fig 3. Test fixture for waterproof



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