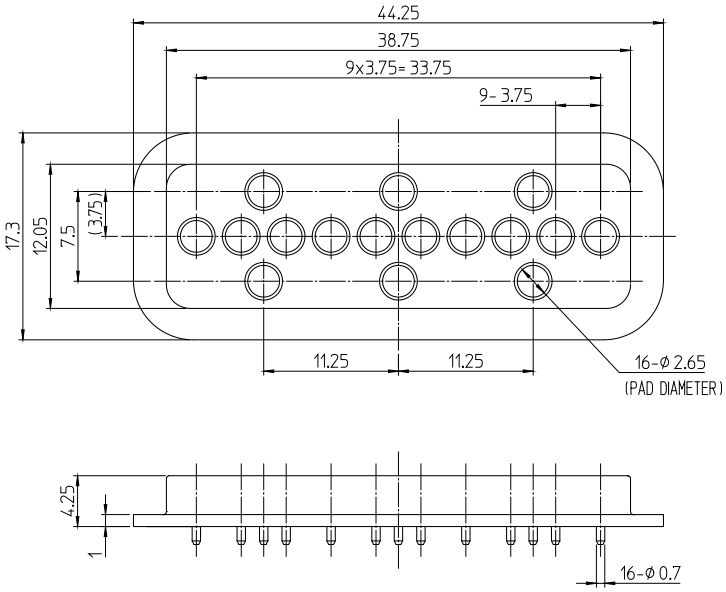
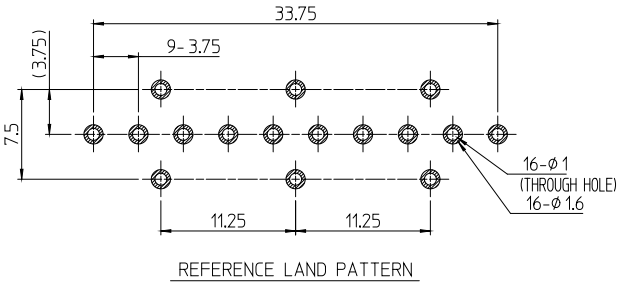
Mating Pad_16Pin_3.75mm Pitch_Through Hole_Water Proof_High Speed Transmission Series

Basic Specification

Part Number : S-J-2600XG-16-375-0000
Rated Current : AC/DC 20V 2A
Contact Resistance : 50mΩ MAX
Operation Temp. : -40℃~+85℃
Waterproof Rating : IPX7





Electrical Characteristic

Rated Current :	**AC/DC 20V 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.**

Other Characteristic

Low Temp. Durability :	**Store in temp -40℃ ± 3℃ for 96 hours, then leaves in the ambient temperature for 1 hour.**
High Temp. Durability :	**Store in temp +85℃ ± 2℃for 96 hours, then leaves in the ambient temperature for 1hour.**
Humidity Durability :	**Store in temp +60℃ ± 2℃ 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.**

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Other Characteristic

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 ± 1% density and 35 ± 2℃ 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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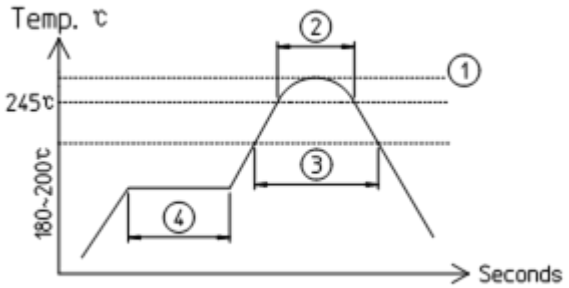
Other Characteristic

Table 1.Temperature Cycle

Step	Temperature(℃)	Time(minites)
1	-40±3	30 - 35
2	5 - 35	10 - 15
3	85±2	30 - 35
4	5 - 35	10 - 15

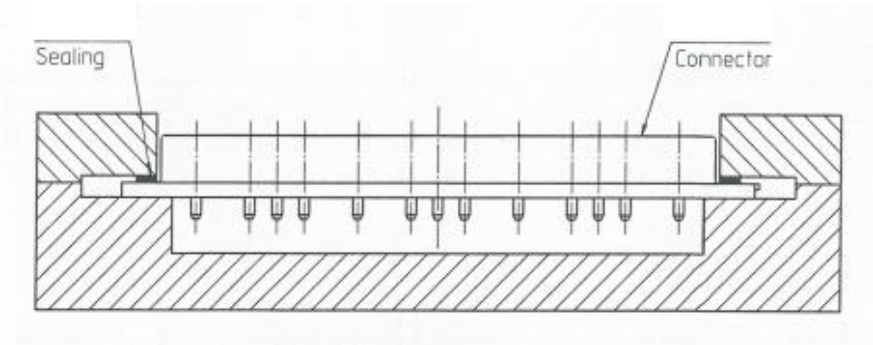
Fig 1. Temp. and Humidity Cycle

Fig 2. Reflow Profile



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

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