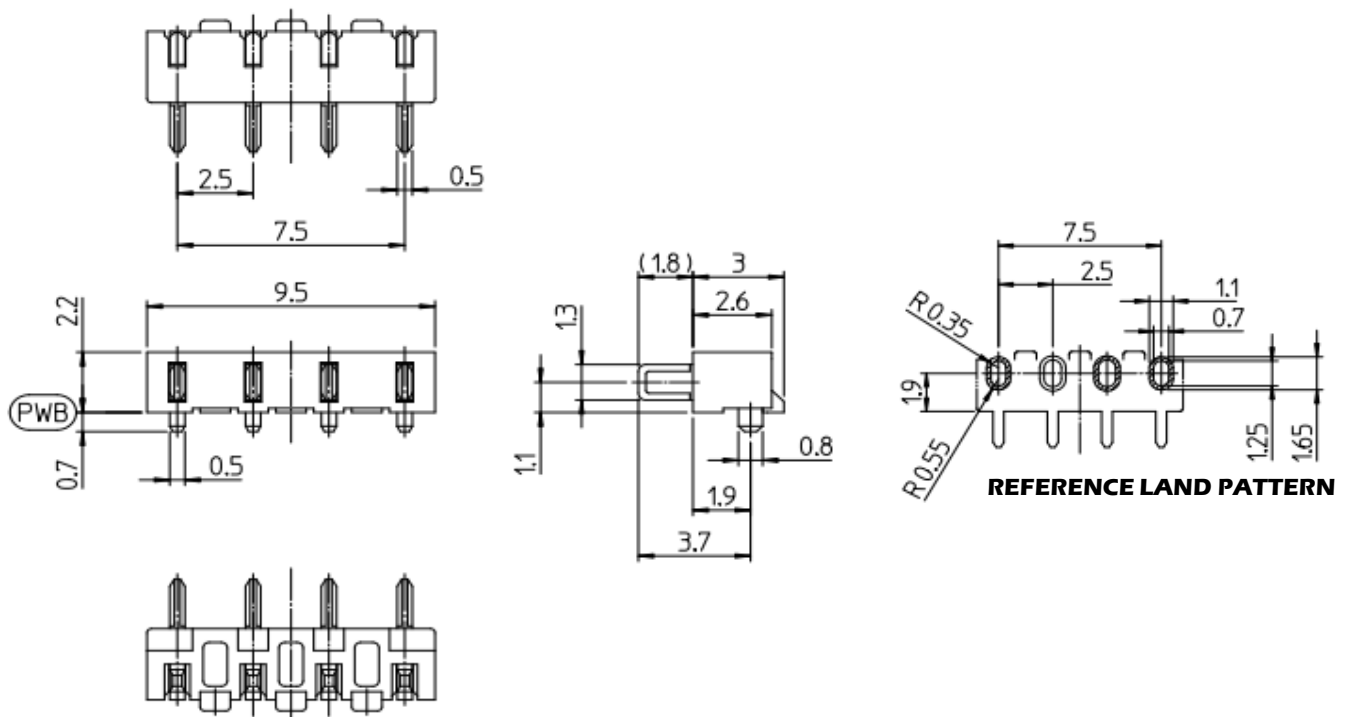


Two Piece Blade Connector_4Pin_2.5mm Pitch_Through Hole Series

Basic Specification

Part Number :	TBCP-1813T-4-25-0000
Compatible Product :	TBR-2519T-4-25-0000
Rated Current :	AC/DC 12V, 1A
Contact Resistance :	50mΩ MAX
Operational Temp. :-	40°C~+85°C
Operational Durability :	2,000cycles
Floating Amount :	± 0.3mm



Electrical Characteristic

Rated Current:	AC/DC 12V, 3A
Contact Resistance:	30mΩ MAX
Insulation Resistance:	100M Ω MIN
Dielectric Strength:	3mA (MAX) leakage

Mechanical Characteristics

Terminal pulling off force :	Apply 2N static load on the terminal in axis direction for 1minute.
Insertion force :	Measure the peak insertion force of initial condition.

Two Piece Blade Connector_4Pin_2.5mm Pitch_Through Hole Series**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.
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.
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. And Humidity Cycle Test :	Repeat 10 continuous temperature and humidity cycles that shown on Fig1, then leave in the ambient temperature for 1 hour.
Temp. Cycle Test :	Repeat 5 continuous temperature cycles that shown on Table1, then leave in the ambient temperature for 1 hour.
Anti-corrosion(Salt Water Spray) :	Spay saline water for 48hours. (Density : $5 \pm 1\%$ salt by weight, Temp : $35 \pm 2^{\circ}\text{C}$) After that, clean in lukewarm water and dry. Then leave in ambient temperature for 1 hour.
Vibration Test :	Connect each connector terminal in series and conducting 0.1A current. After that, apply the shock specified below. Amplitude : 1.5mm or 10G Sweeping cycle : $10 \sim 55 \sim 10\text{Hz}$ for 1min. Duration of test : 2hours for each of X, Y, Z axis.
Shock Test :	Connect each connector terminal in series and conducting 0.1A current. After that, apply the shock specified below. Acceleration rate : 50G(490m/s^2), half sine pulse Operation time : 11msec Duration : 3shocks in each X, Y, Z, axis both in negative and positive direction. (18shocks)
Soldering Heat Resistance :	Reflow profile(Refer to Fig2) Preheating : 180 to 200°C, 120 ± 30 sec. Peak temperature : 250°C Peak time(Over 245°C) : 10sec MAX.

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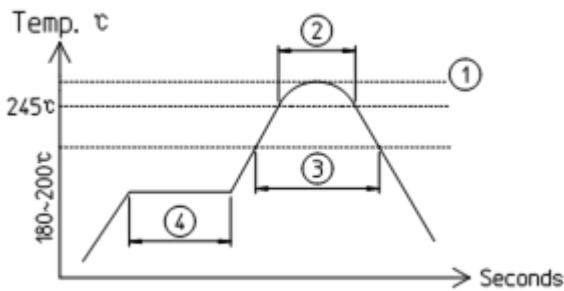
Table 1.Temperature Cycle

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



- 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