

Scope

This specification covers the 0.8 mm Pitch BTB Connector THD0837 & 0812 series.

■Ordering information

$\begin{array}{c|c} \hline THD0837M - xx \\ \hline 0 \\ \hline 0$

	Series name: THD0837 THD0812		
0	M: BTB CONNECTOR PLUG ASSEMBLY		Plating:
	F: BTB CONNECTOR RECEPTACLE ASSEMBLY	4	GF= 1µ"~3µ" Gold Flash G3= 3µ" Gold over Nickel
0	Number of contacts: 40 TO 200		G5= 5µ Gold over Nickel
8	Contact type:Vertical		SN= Tin(Lead Free) over Nickel

Rating

Item	Standard
Voltage Rating(Max.)	100V AC
Current Rating(Max.)	0.5A DC
Operating Temperature Range	$-25^{\circ}C \sim +85^{\circ}C$ (Including terminal temperature rise)

Material

Housing	Housing Terminal		
LCP (UL94V-0)	Company allow	Au over Nickel	
Color:BEIGE	Copper alloy		

Performance

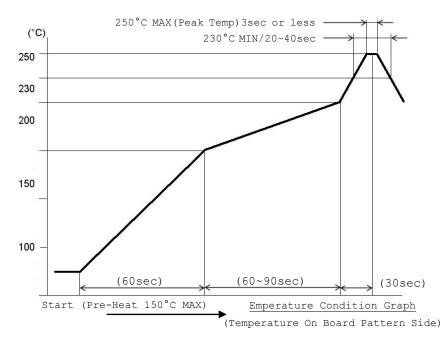
Item	Test Condition	Specification	
	Mate The sample connectors, measure by dry		
Contact Resistance	circuit, 20mV Max., 100mA Max. (EIA-364-23)	60 mΩ Max.	
	Unmated The sample connectors,apply 500V DC		
Insulation Resistance	between adjacent terminal or ground. (EIA-364-21)	500 MΩ Min.	
	Unmated The sample connectors , Apply 500 V AC		
Dielectric Strength	for 1minute Test between adjacent circuit of	No Breakdown	
Ū.	unmated connector.		
	(EIA-364-20)		
Mating Force	Load shall be applied on each at a speed of 25±3mm/minute as shown below then pin retention force shall be measured.	Per pin x0.9N max.	
Unmating Force	Measure force necessary to mate assemblies at maximum rate of 12.5mm per minute.	Per pin x 0.1N Min.	
Withdrawal force of termial	Each termial shall be pulled at speed of 12.5mm per minute form the housing.The withdrawal shall be measured force when the terminal is extracted.	0.4N Min./ Per pin	
Durability	Mate The sample connectors should be mounted in the tester and fully mated and unmated the number of 30cycles specified at the rate of 25±3 mm/min. (EIA-364-09)	50 cycles	

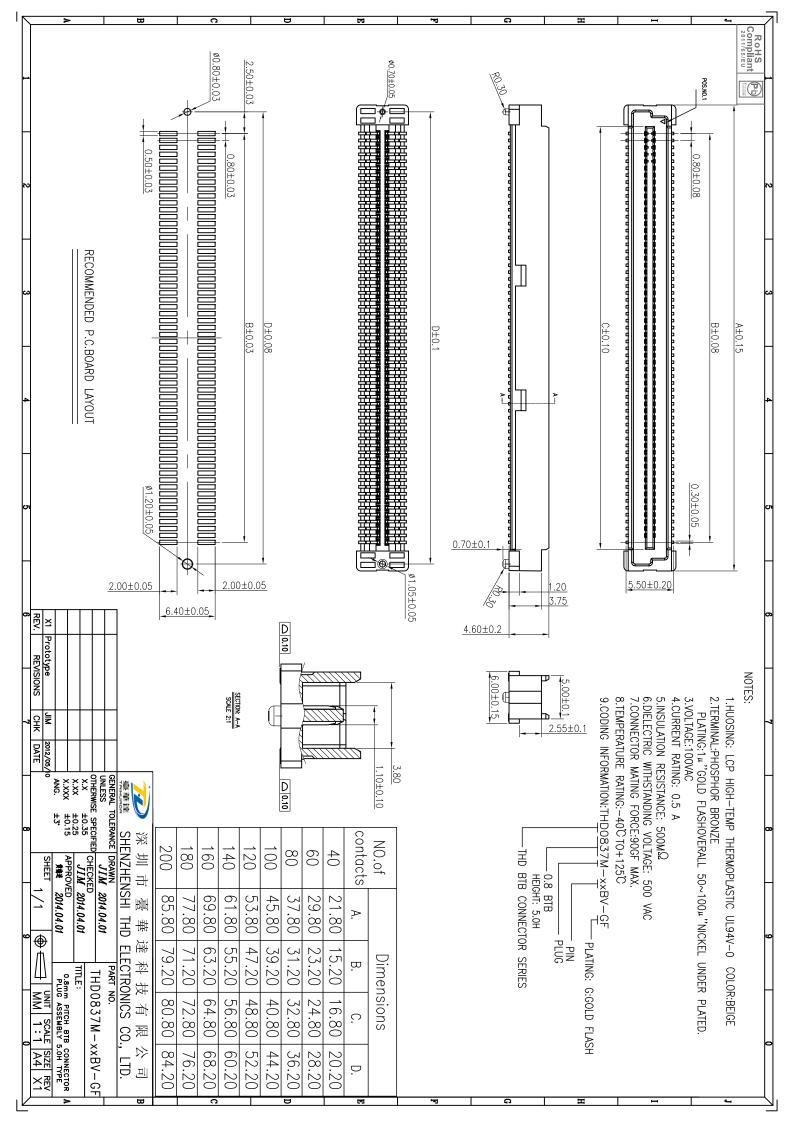
	Mate connectors and subject to the following	Appearance	No Damage
	vibration conditions for period of 2 hours in each of 3		
Vibration	mutually perpendicular axes passing DC 1mA during	Contact Resistance	90 mΩ Max.
	the test.Amplitude:1.5mm P-P frequency:10~55~10		
	Hz in 1 minute	Discontinuity	1 µsec Max.
	(EIA-364-28 Condition I)		•
	Mate The sample connectors shall and subject to the	Appearance	No Damage
	following shock condition.3 times of shocks shall be	Contact Resistance	90 mΩ Max.
	applied for each 6 directions along 3 mutually		
Shock	perpendicular axes, passing DC 1mA current during		
	the test.(Total of 18 shocks) Peak	Discontinuity	1 µsec Max.
	value490m/s²{50G} (EIA-364-27, test condition A)		
	Mate The sample connectors shall expose to the		
	following salt mist conditions. Upon completion of		
	the exposure period, salt deposits shall be removed	Appearance	
	by a gentle wash or dip in running water, after which	Appearance	No Damage
Salt Spray	the specified NaCl solution Concentration:5±1%		
	Spray time:24hours Ambient temperature:35±2°C		
	(EIA-364-26,Test condition B)	Contact Resistance	900 mΩ Max.

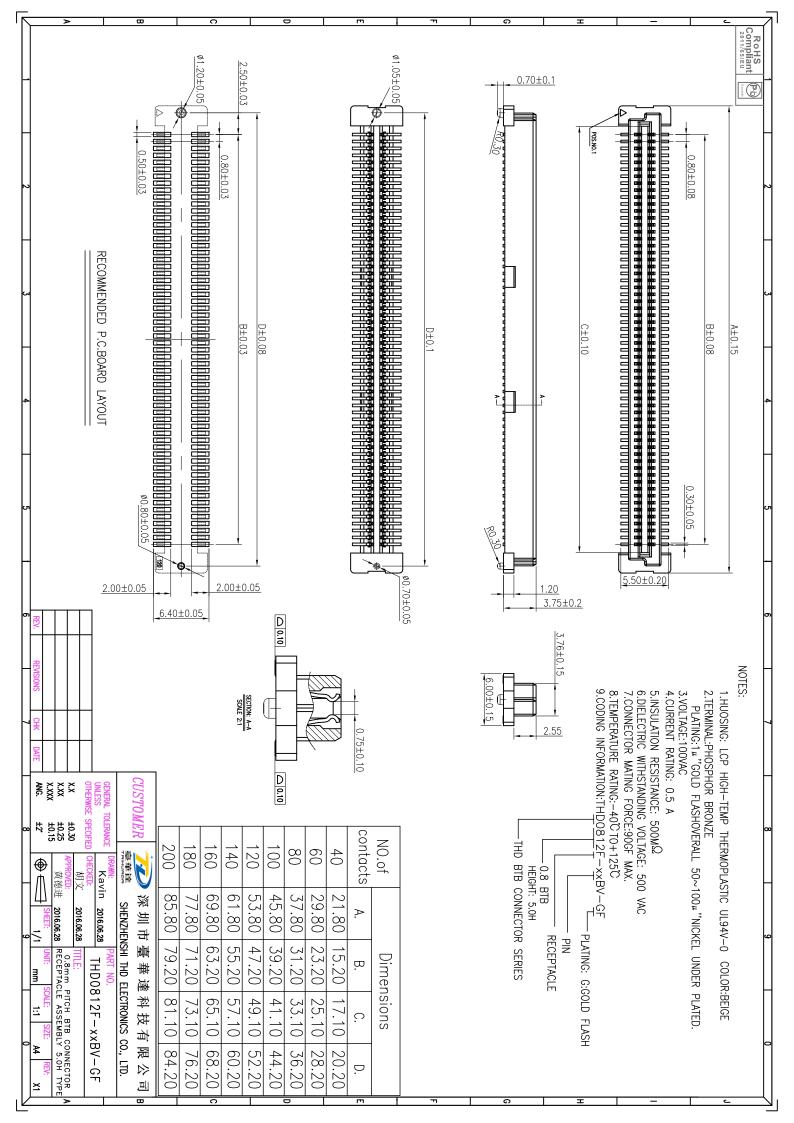
ltem	Test Condition	Specification	
	Mate The sample connectors shall expose to 85 ± 2 °C for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room condition for 1to2 hours, after which the specified measurements shall be performed.	Appearance	No Damage
Heat Resistance		Contact Resistance	90 mΩ Max.
	Mate The sample connectors shall expose to -25±2	Appearance	No Damage
Cold Resistance	[°] C for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room condition for 1to2 hours, after which the specified measurements shall be performed.	Contact Resistance	90 mΩ Max.
	Mate The sample connectors shall expose to	Appearance	No Damage
	40±2℃ relative humidity 90~95% for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room condition for 1to2 hours, after which the specified measurements shall be performed.	Contact Resistance	90 mΩ Max.
Humidity		Dielectric Strength	No Breakdown
		Insulation Resistance	500 MΩ Min.

Temperature Rise	Mate plug and measure the temperature rise of contact when the maximum AC rated current is passed.		30°C Max.
	A connector shall and subject to the following condition for 5 cycles .Upon completion of the	Appearance	No Damage
Temperature Cycling	exposure period, the test specimens shall be conditioned at ambient room condition for 1to2 hours, after which the specified measurements shall be performed. 1cycle a)-25±3°C,30 minutes b) +85±3°C,30 minutes (Transit time shall be with in 3 minutes) (EIA-364-31, Test condition A)	Contact Resistance	90 mΩ Max.
Solderability	Mate The sample connectors shall expose to the following salt mist conditions. Upon completion of the exposure period, salt deposits shall be removed by a gentle wash or dip in running water, after which the specified NaCl solution Concentration:5±1% Spray time:24hours Ambient temperature:35±2°C (EIA-364-26,Test condition B)	Solder Wetting	95% of immersed area must show no voids, pin holes.
Resistance to Soldering	When reflowing refer to Infrared reflow condition <u>Soldering iron method</u> 0.2mm from terminal tip and fitting nail tip. Soldering time : 5 seconds Max. Solder temperature : 370 ~ 400°C	Appearance	No Damage

Recommended Temperature Profile







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