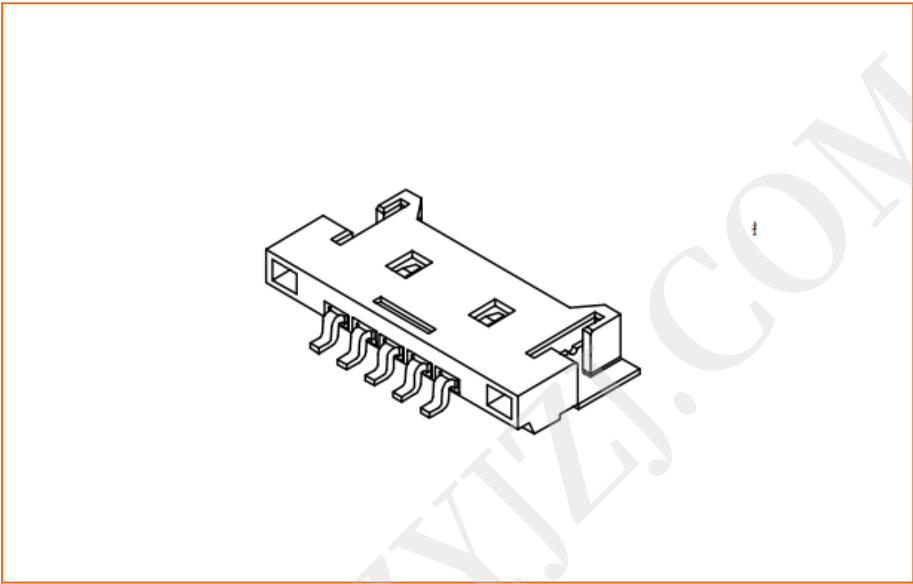


Product Specification

深圳市台华达科技有限公司
SHENZHENSHI THD Electronics Co., Ltd.



Product.No

THD1254—xxRL —GF

Pitch=1.25mm Wafer Connector (Front-Flip Lower Contact)

A	Release
Rev.	Description
Approved Signatures	
■Prepared By : JIM	■Date:2016.05.24
■Checked By : Jacky	■Date:2016.05.24
■Approved By : 黄德进	■Date:2016.05.24

■ Scope

This specification covers the 1.25 mm Pitch Wafer Connector THD 1254 series.

■ Ordering information

THD1254-xxRL-GF

①	②	③	④
①	Series name : THD1254	④	Plating : GF= 1μ"~3μ" Gold Flash G3= 3μ" Gold over Nickel G5= 5μ" Gold over Nickel SN= Tin(Lead Free) over Nickel
②	Number of contacts : 2 TO 20		
③	Contact type : RL:Lower contact		

■ Rating

Item	Standard
Voltage Rating (Max.)	125VAC
Operating Temperature Range	-25°C ~ +85°C (Including terminal temperature rise)

■ Material

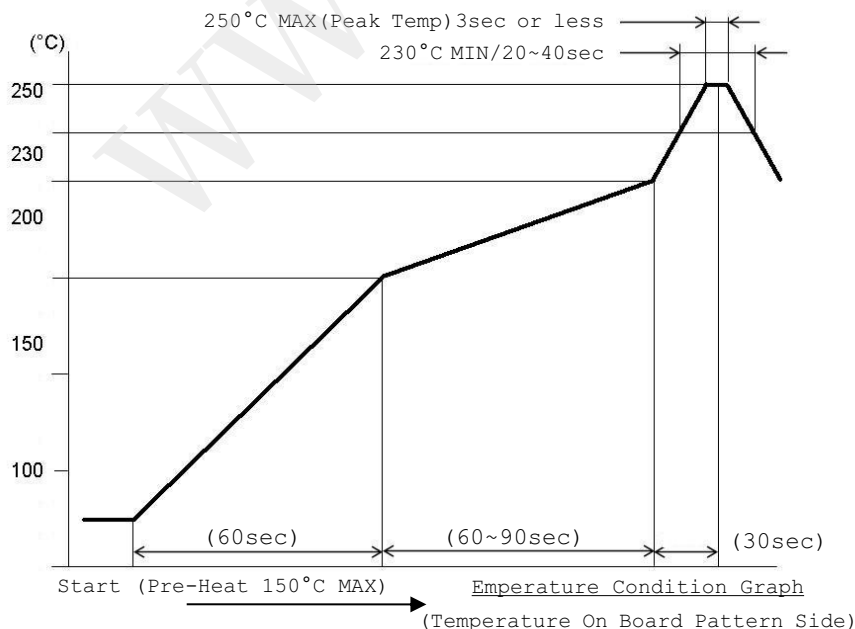
Housing	Actuator	Terminal	Solder pin	Plating
PA6T (UL94V-0)		Copper alloy	Copper alloy	Gold Flash
Color : White				

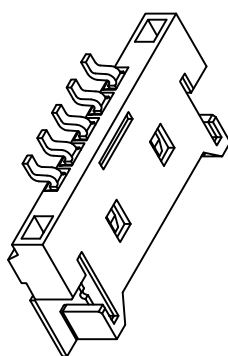
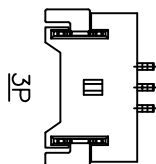
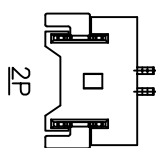
■ Performance

Item	Test Condition	Specification	
Contact Resistance	Mate applicable FPC and measure by dry circuit, 20mV Max, 1mA.	20mΩMax.	
Insulation Resistance	Mate applicable FPC and apply 500V DC between adjacent terminal or ground.	100MΩMin.	
Dielectric Strength	Mate applicable FPC, apply 500VAC (rms) for 1 minute between adjacent terminal or ground.	No Breakdown	
FPC Retention Force	Insert the actuator, pull the FPC at a rate of 25±3mm per minute.	Per pin x 0.15N Min.	
Terminal Retention Force	Apply axial pull out force at the rate of 25±3mm/minute on the terminal assembled in the housing.	Per pin x 0.06Kgf {0.6N} Min.	
Vibration	Mate connectors and subject to the following vibration conditions, for period of 2 hours in each of 3 mutually perpendicular axes, passing DC 1mA during the test. Amplitude : 1.5mm P-P Frequency : 10~55~10 Hz in 1 minute. Duration : 2 hours in each of X,Y,Z axes.	Appearance	No Damage
		Contact Resistance	50mΩMax.
		Discontinuity	1 μsec Max.
Shock	Mate applicable FPC and subject to the following shock conditions. 3 times of shocks shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 1 mA current during the test. Peak value : 490m/s ² {50G}	Appearance	No Damage
		Contact Resistance	50mΩMax.
		Discontinuity	1 μsec Max.
Salt Spray	Mate applicable FPC and 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 measurements shall be performed. NaCl solution Concentration : 5 ± 1% Spray time : 48 ± 4 hours Ambient temperature : 35 ± 2°C	Appearance	No Damage
		Contact Resistance	50mΩMax.

Item	Test Condition	Specification	
Heat Resistance	Mate applicable FPC and expose to 85±2°C for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.	Appearance	No Damage
		Contact Resistance	50mΩMax.
Cold Resistance	Mate applicable FPC and expose to -40±2°C for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.	Appearance	No Damage
		Contact Resistance	50mΩMax.
Humidity	Mate applicable FPC and expose to 60 ± 2°C, relative humidity 90 to 95% for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.	Appearance	No Damage
		Contact Resistance	50mΩMax.
		Dielectric Strength	No Breakdown
		Insulation Resistance	50 MΩ Min.
Temperature Rise	Mate applicable FPC and measure the temperature rise of contact when the maximum AC rated current is passed.	Temperature rise	30°C Max.
Temperature Cycling	Mate applicable FPC and subject to the following conditions for 5 cycles. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 1 cycle a) -55±3°C 30minutes b) +85±3°C 30minutes (Transit time shall be with in 3 minutes)	Appearance	No Damage
		Contact Resistance	50mΩMax.
Solderability	Tip of solder tails and fitting nails into the molten solder (held at 245±5°C) up to 0.1mm from the bottom of the housing for 3±0.5 seconds.	Solder Wetting	95% of immersed area must show no voids, pin holes.
Resistance to Soldering	When reflowing refer to Infrared reflow condition <i>Soldering iron method</i> 0.2mm from terminal tip and fitting nail tip. Soldering time : 5 seconds Max. Solder temperature : 370~400°C	Appearance	No Damage

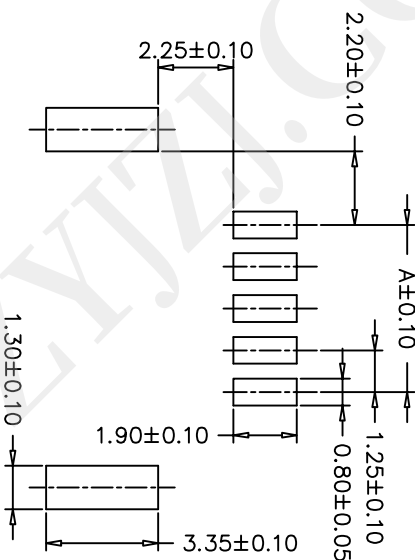
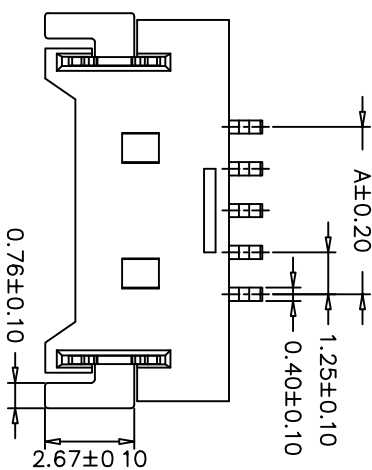
■ Recommended Temperature Profile



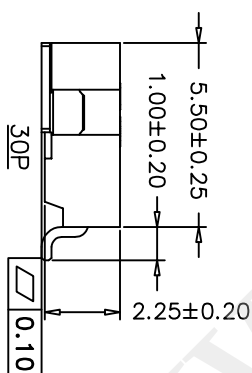
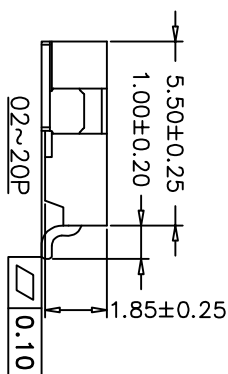
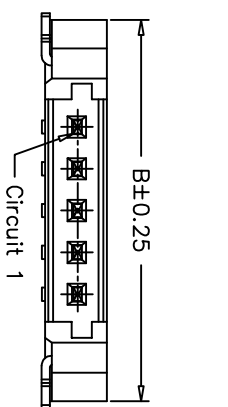


技术指标: 1. 箱体表面应光滑 2. 无毛边 3. 无明显收缩

1. 材料、製法等項未定、允許試驗者須知、
2. 溫度範圍：-25°—85°C.
3. 工作溫度：-25°—85°C.
4. 額定電壓：50V, AC/D.C.
5. 接觸電阻： $\leq 50\text{m}\Omega$.
6. 合同規定之性能：
7. 絕緣電阻： $\geq 100\text{M}\Omega$.
8. 耐濕性試驗： $\geq 1000\text{hr}$.
9. 耐熱電阻： $\geq 1000\text{hr}$.
10. 耐電壓： $\geq 1000\text{V}$.
11. 壽命試驗： $\geq 10^5$ cycles.



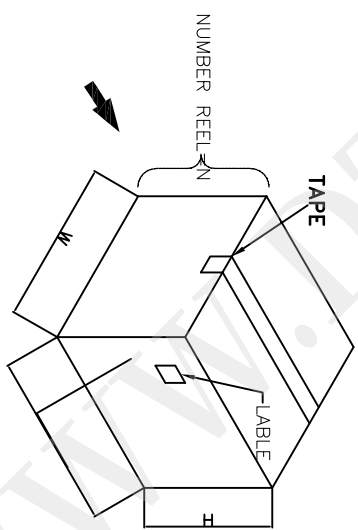
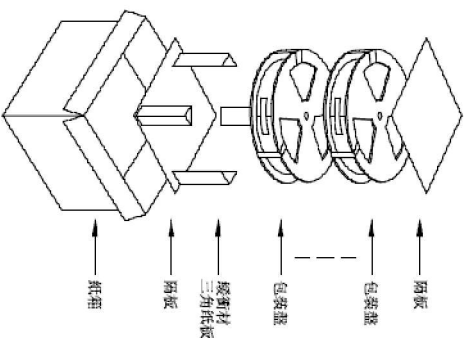
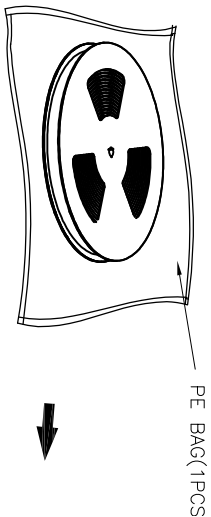
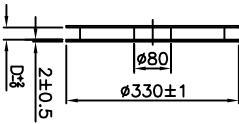
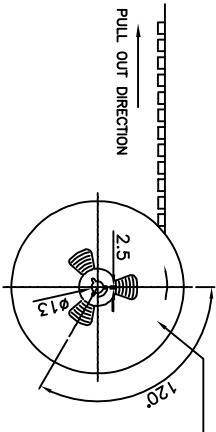
P.C.B. LAYOUT



PIN	Dimension mm	
	A	B
2	1.25	7.65
3	2.50	8.90
4	3.75	10.15
5	5.00	11.30
6	6.25	12.65
7	7.50	13.90
8	8.75	15.15
9	10.00	16.40
10	11.25	17.65
11	12.50	18.90
12	13.75	20.15
13	15.00	21.40
14	16.25	22.65
15	17.50	23.90
20	23.75	30.15
30	36.25	42.65

CUSTOMER  臺華達 TECHNIPON				深圳市臺華達科技有限公司 SHENZHENSHI THD TECHNOLOGY CO., LTD.			
GENERAL TOLERANCE UNLESS OTHERWISE SPECIFIED				DRAWN: Kavin		PART NO.	
XX ±0.20 XXX ±0.15 XXXX ±0.10 ANG. ±2				CHECKED: 胡文		2016.06.26	
APPROVED: 黃德進				2016.06.26		TITLE: 1. 25W AFER 超薄臥貼	
		SHEET: 1/1		UNIT: mm		SCALE: 1:1	
		SIZE: A4		REV: X1			
6		7		8		9	
REV		REVISIONS		CHK		DATE	
6		7		8		9	

START		END	
LEADER	PRODUCT	TRAILER	
240mm MIN.	2400mm	240mm MIN.	
20PCS	2000PCS	20PCS	



PIN NO.	PCS /REEL	REEL/CARTON	SUM(PCS)
2PIN~3PIN	2000	12	24000
4PIN~9PIN	2000	10	20000

NOTES :
1.CARTON SPEC. :L350 *W350 *H300mm(OUT DIM) ,
PAPER THICKNESS =5mm
2.COMPONENT LOAD PER 13" REEL : 2000 PCS.

CUSTOMER							
				深圳市臺華達科技有限公司 SHENZHENSHI THD TECHNOLOGY CO., LTD.			
GENERAL TOLERANCE				PART NO.			
UNLESS OTHERWISE SPECIFIED				THD1254-10RL-GF			
DRAWN:				TITLE:			
Kavin				1. 25PITCH 超薄贴片			
2016.06.26							
CHECKED:							
胡文							
2016.06.26							
APPROVED:							
黄德进							
2016.06.26							
				SHEET: 1/1			
				UNIT: mm			
				SCALE: 1:1			
				SIZE: A4			
REV.				REV.			
REVISIONS				X1			
CHK							
7				8			
				9			
				0			