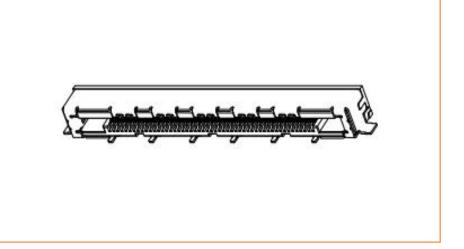
#### **Product Specification**

# 深圳市臺華達科技有限公司

SHENZHENSHI THD Electronics Co., Ltd.



# Product.No THD-LVDS-51R-GF

Pitch=0.5mm Wafer Connector (Front-Flip Lower Contact)

А	Release		
Rev.	Description		
Approved Signatures			
■Prepared By :	JIM	■Date: 2012.05.24	
■Checked By :	JIM	■Date: 2012.05.24	
■Approved By :	黄德进	■Date: 2012.05.24	

#### **■**Scope

This specification covers the 1.0 mm Pitch Wafer Connector **THDLVDS** series.

#### **■**Ordering information

## THDLVDS - 51 R - GF

0 3 4

0	Series name: THDLVDS		
2	Number of contacts:51	4	Plating: GF= 1µ"~3µ" Gold Flash
8	PIN	•	G3= 3µ" Gold over Nickel G5= 5µ" Gold over Nickel SN= Tin(Lead Free) over Nickel

#### ■ Rating

Item	Standard
Voltage Rating(Max.)	200V AC
Current Rating(Max.)	1.0A DC
Operating Temperature Range	-55°C ~ +85°C (Including terminal temperature rise)

#### ■ Material

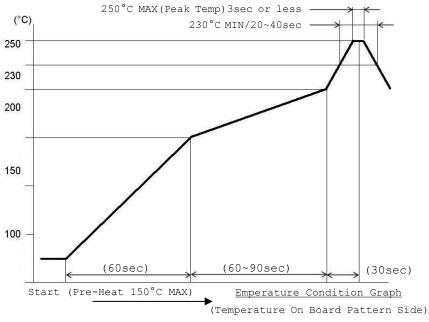
Housing Actuator		Terminal	Solder pin	SHELL
L.C.P (UL94V-0)	L.C.P (UL94V-0)	G.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 11	
		Copper alloy	Copper alloy	Copper alloyl

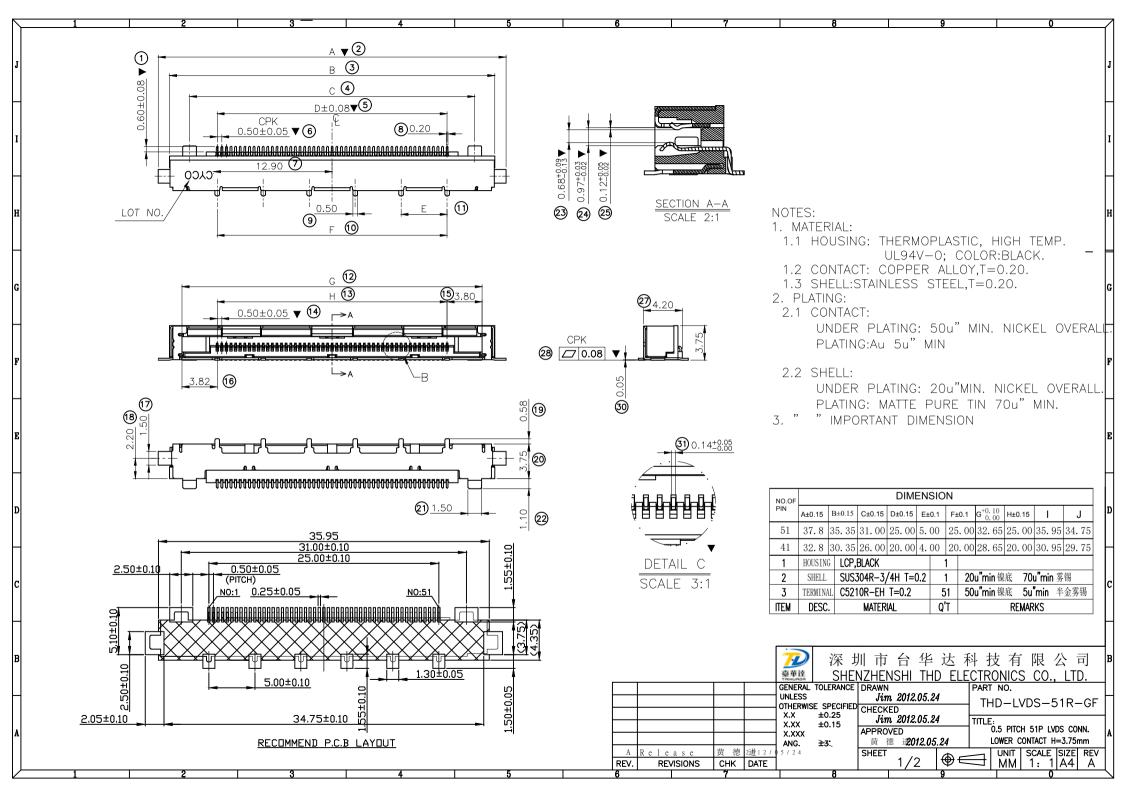
#### **■**Performance

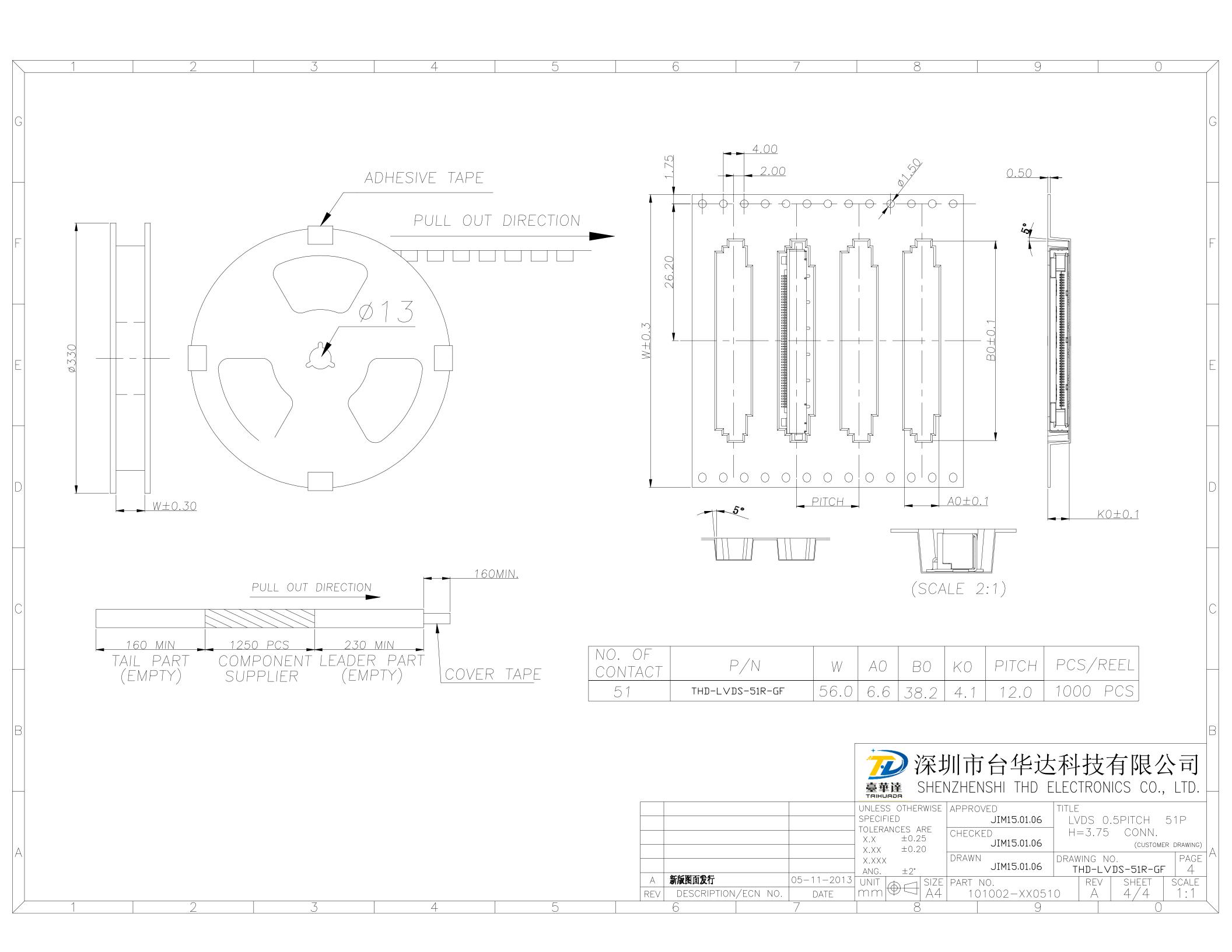
Item	Item Test Condition		Specification		
Contact Resistance	Mate applicable FPC and measure by dry circuit, 20mV Max, 1mA.	40 1	mΩ Max.		
Insulation Resistance	Mate applicable FPC and apply 500V DC between adjacent terminal or ground.	100 MΩ Min.			
Dielectric Strength	Mate applicable FPC, apply 250V AC(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 2N MAX.			
Terminal Retention Force	Apply axial pull out force at the rate of 25±3 mm/minute on the terminal assembled in the housing.	Per pin x 0.15Kgf {1.5N} Min.			
	Mate connectors and subject to the following vibration	Appearance	No Damage		
Vibration	conditions, for period of 2 hours in each of 3 mutually perpendicular axes, passing DC 1mA during the test.	Contact Resistance	100 mΩ Max.		
	Amplitude: 1.5mm P-P Frequency: 10~55~10 Hz in 1 minute. Duration: 2 hours in each of X,Y,Z axes.	Discontinuity	1 μsec Max.		
	ate applicable FPC and subject to the following shock onditions. 3 times of shocks shall be applied for each	Appearance	No Damage		
Shock	6 directions along 3 mutually perpendicular axes, passing DC 1 mA current during the test.	Contact Resistance	100 mΩ Max.		
	Peak value : 490m/s <sup>2</sup> {50G}	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.	Appearance	No Damage		
	NaCl solution Concentration : $5 \pm 1\%$ Spray time : $48 \pm 4$ hours Ambient temperature : $35 \pm 2$ °C	Contact Resistance	100 mΩ Max.		

Item	Item Test Condition		Specification		
	Mate applicable FPC and expose to 85±2°C for 96 hours. Upon completion of the exposure period, the test	Appearance	No Damage		
Heat Resistance	specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.	Contact Resistance	100 mΩ Max.		
Cold Resistance	Mate applicable FPC and expose to $-40\pm2^{\circ}$ C for 96 hours. Upon completion of the exposure period, the test	Appearance	No Damage		
	specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.	Contact Resistance	100 mΩ Max.		
		Appearance	No Damage		
Humidity	Mate applicable FPC and expose to $60 \pm 2$ °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.	Contact Resistance	100 mΩ Max.		
		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.		
	Mate applicable FPC and subject to the following conditions for 5 cycles. Upon completion of the exposure period, the test	Appearance	No Damage		
Temperature Cycling	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)	Contact Resistance	100 mΩ Max.		
Solderability	Tip of solder tails and fitting nails into the molten solder (held at $245\pm5^{\circ}\text{C}$ ) up to 0.1mm from the bottom of the housing for $3\pm0.5$ seconds.	Solder Wetting	95% of immersed area must show no voids, pin holes.		
Resistance to Soldering	When reflowing refer to Infrared reflow condition Soldering iron method  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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