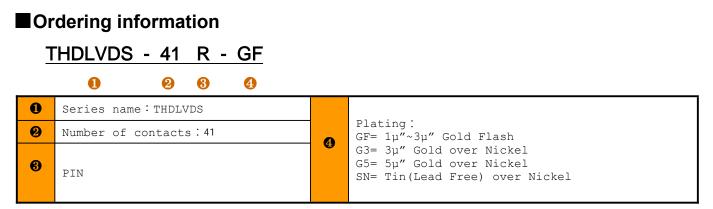


Scope

This specification covers the 0.5mm Pitch LVDS Connector **THDLVDS** series.



Rating

Item	Standard
Voltage Rating(Max.)	250V AC
Current Rating(Max.)	0.5A DC
Operating Temperature Range	-25°C ~ +85°C (Including terminal temperature rise)

Material

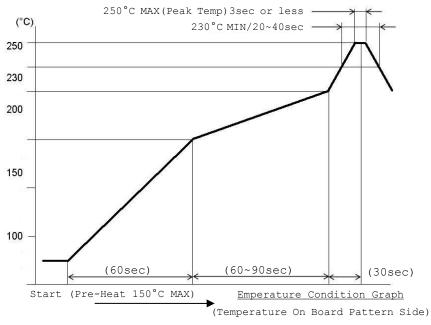
Housing	Actuator	Terminal	Solder pin	SHELL
L.C.P (UL94V-0)	L.C.P (UL94V-0)			
		Copper alloy	Copper alloy	Copper alloyl

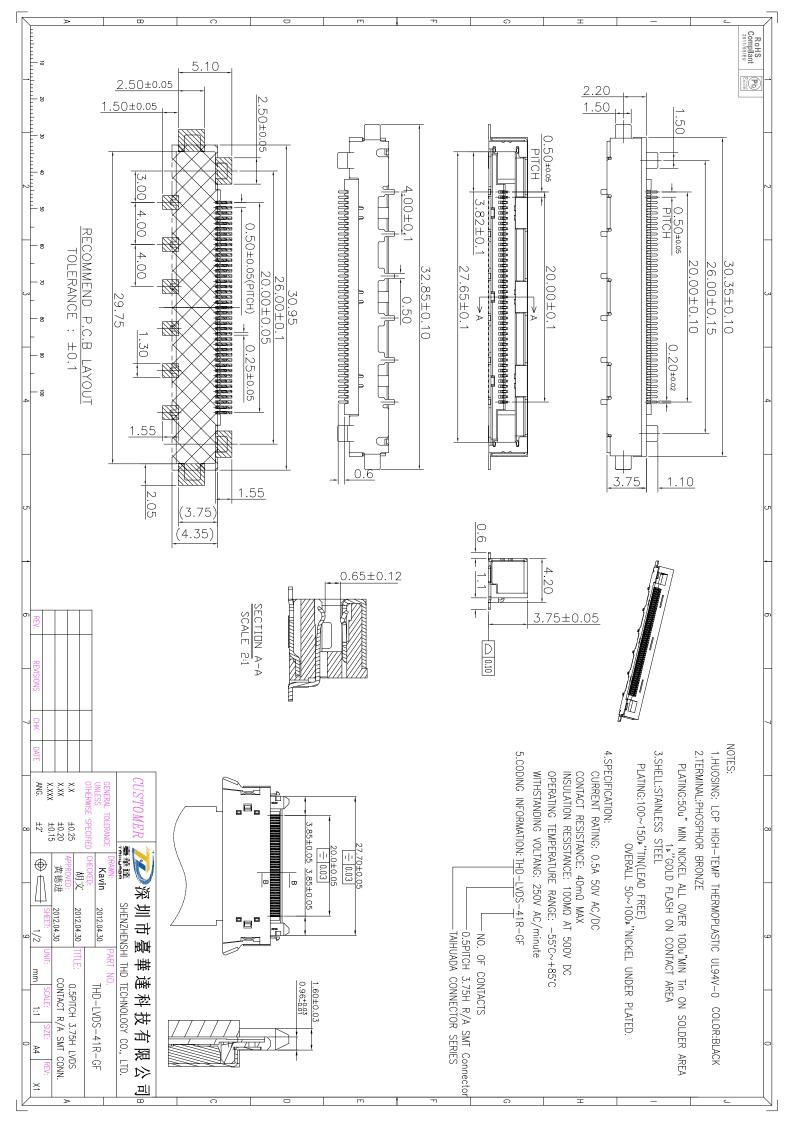
Performance

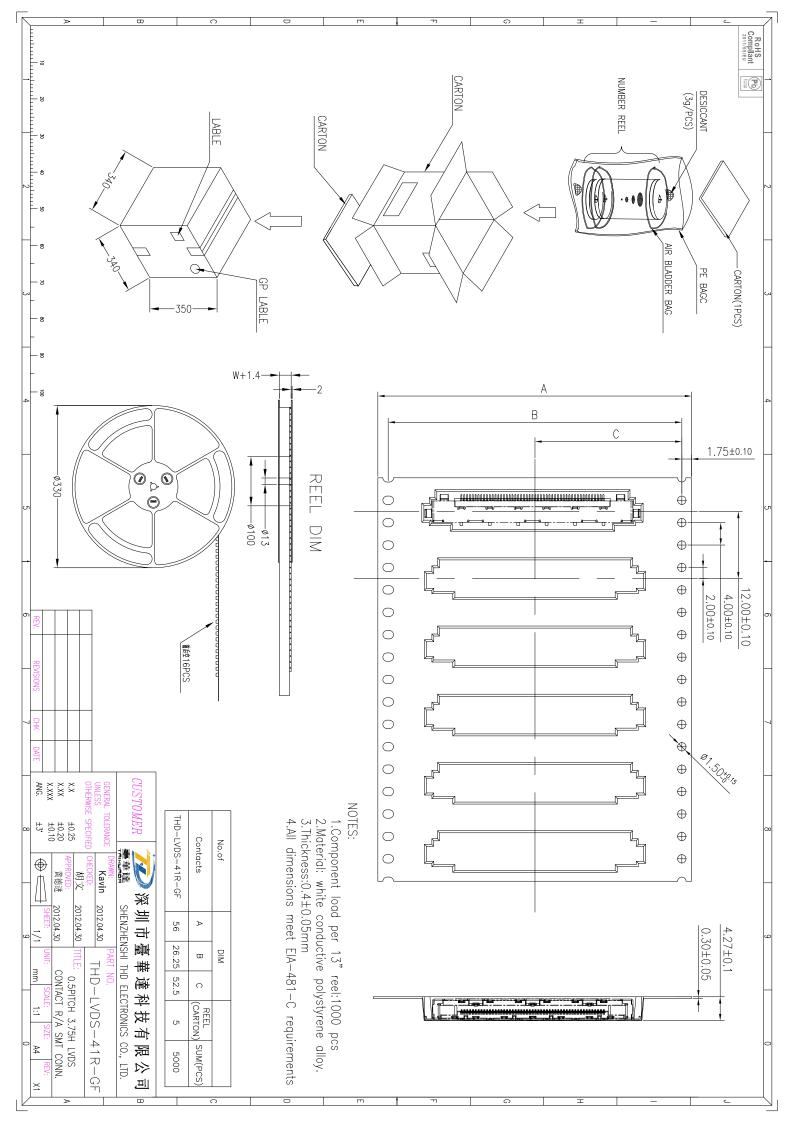
Item	Test Condition	Specification	
Contact Resistance	Mate applicable FPC and measure by dry circuit, 20mV Max, 1mA.	30 1	nΩ Max.
Insulation Resistance	Mate applicable FPC and apply 500V DC between adjacent terminal or ground.	100 MΩ Min.	
Dielectric Strength	Mate applicable FPC, apply 250V AC(rms) for 1 minute between adjacent terminal or ground.	No Breakdown	
FPC Retention Force	Insert the actuator, pull the FPC at a rate of 25 ± 3 mm per minute.	Per pin 0.08N 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 0.1Kgf {0.8N} Min.	
Vibration	Mate connectors and subject to the following vibration	Appearance	No Damage
	<pre>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.</pre>	Contact Resistance	100 mΩ Max.
		Discontinuity	l µsec Max.
Shock	Mate applicable FPC and subject to the following shock conditions. 3 times of shocks shall be applied for each	Appearance	No Damage
	6 directions along 3 mutually perpendicular axes, passing DC 1 mA current during the test.	Contact Resistance	100 mΩ Max.
	eak value : $490m/s^2$ {50G}	Discontinuity	l 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 ± 1% Spray time :48 ± 4 hours Ambient temperature : 35 ± 2°C	Contact Resistance	100 mΩ Max.

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	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.	
Cold Resistance	Mate applicable FPC and expose to -40 ± 2 °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 $60 \pm 2^{\circ}$ 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.	
Temperature Cycling	Mate applicable FPC and subject to the following conditions for 5 cycles. Upon completion of the exposure period, the test	Appearance	No Damage	
	<pre>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)</pre>	Contact Resistance	100 mΩ Max.	
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 <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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