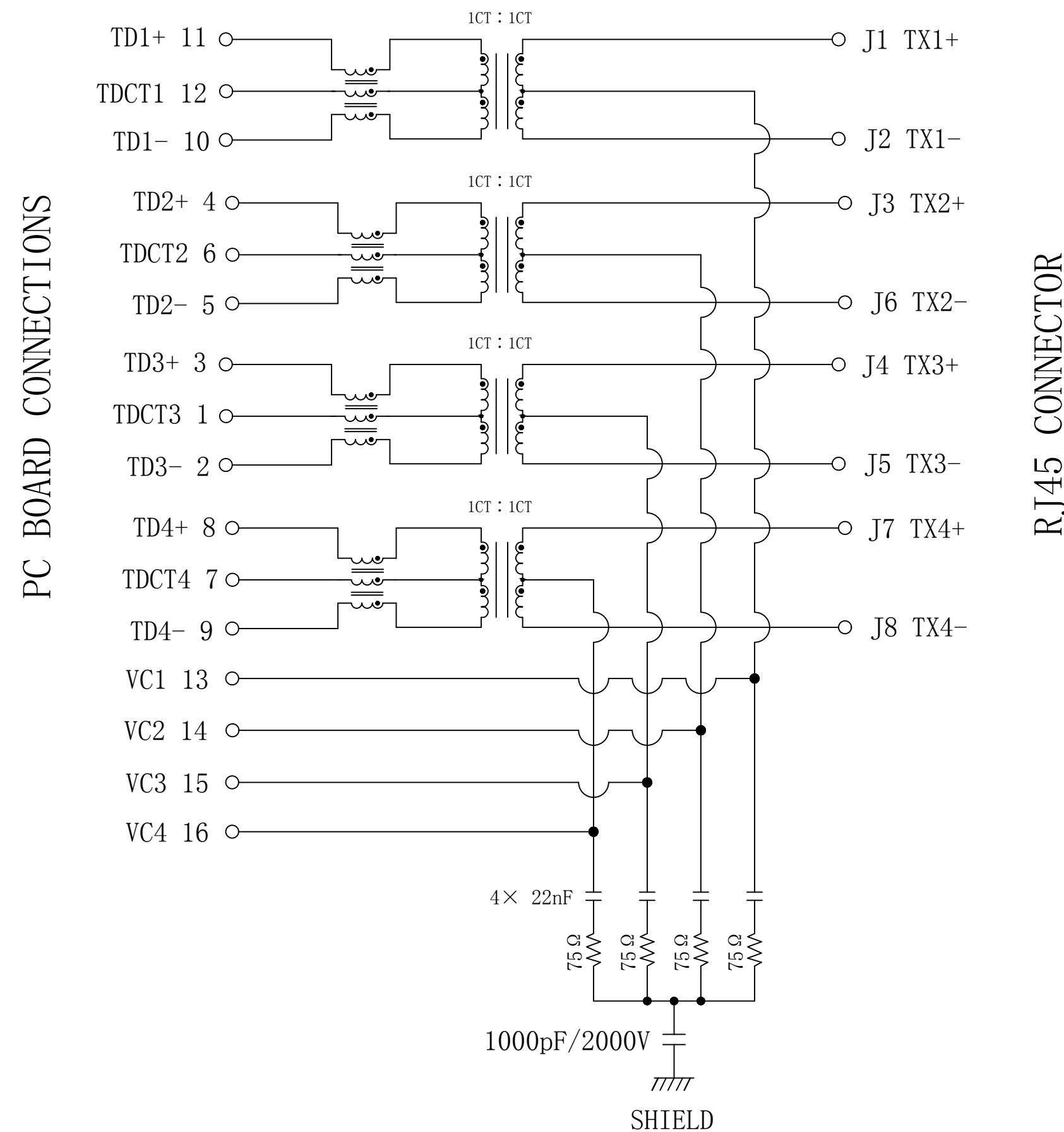


Schematic:

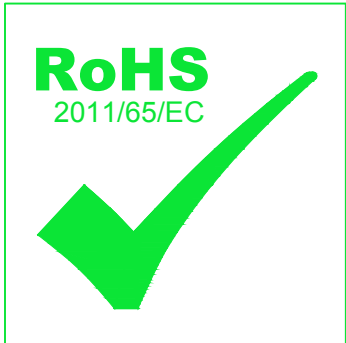
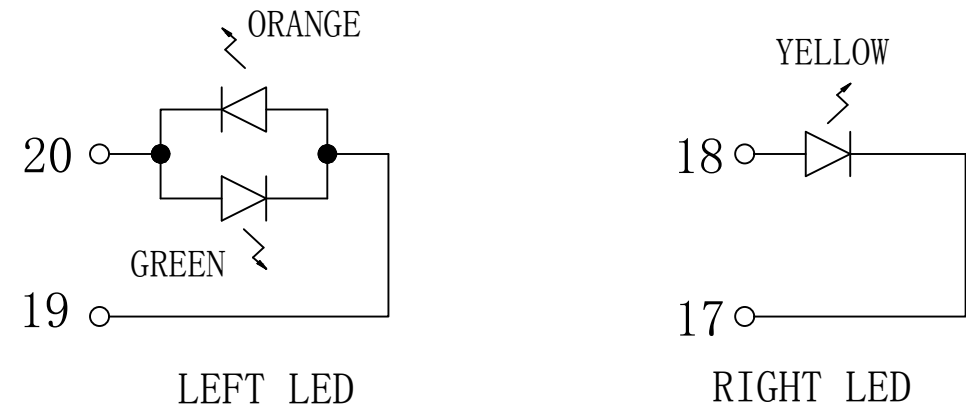
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2023-03-19	

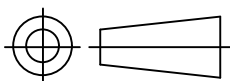


ELECTRICAL SPECIFICATIONS @25°C

- 1.Turn Ratio : 1CT:1CT $\pm 5\%$
- 2.OCL:160uH Min @100KHz , 0.1V
- 3.Insertion Loss (dB Max):
1-125MHz: -1.0 125-200MHz: -2.0
200-250MHz -2.5
- 4.Return Loss(dB Min):
1-30MHz: -18 30-100MHz: -14
100-200MHz: -11 200-250MH: -9
- 5.Cross Talk:
1-250MHz: -25dB Min.
- 6.Common Mode Rejection(dB Min):
1-100MHz: -30 100-250MHz:-20
- 7.Common Mode to Differential Mode Rejection(dB Min):
1-100MHz: -30 100-250MHz:-25.
- 8.Balance DC Line current:
1.0A MAX,@57VDC Continuous.
- 9.Isolation PHY SIDE To Line SIDE : 1500Vrms
- 10.Operating Temperature Range: -40°C ~+85°C.

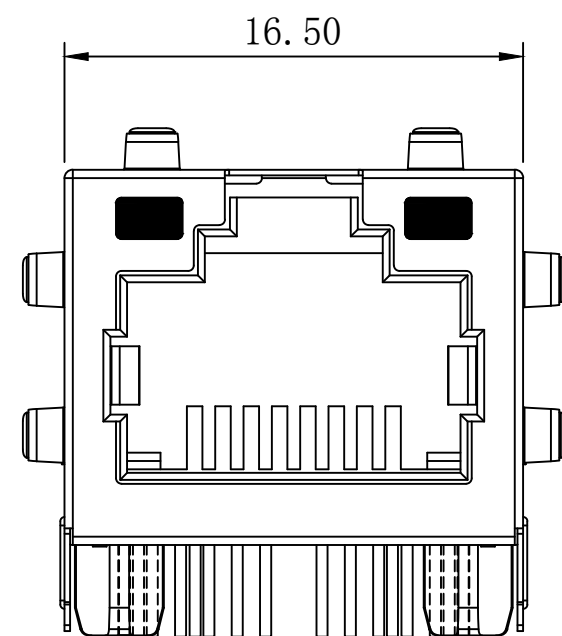
Emitting Color	λ_p (nm)	V _F @I _F =20mA	I _R @V _R =5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max
ORANGE	600	1.8~2.6V	10 μ A max



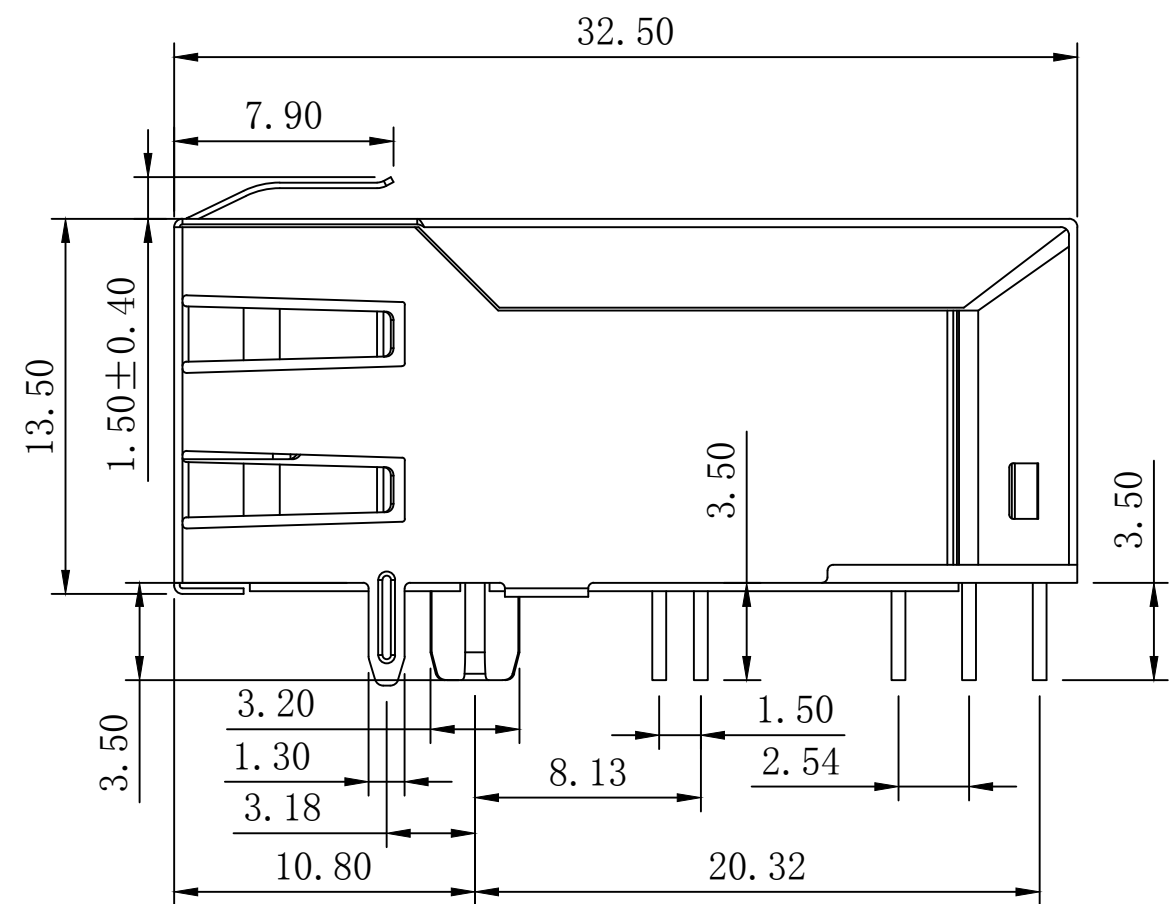
X:X ±0.30		APPD: TOM		LINK-PP INT'L TECHNOLOGY CO., LIMITED		
X:XX ±0.25		CHKD: JAMES				
X:XXX ±0.05		DR: LEO		TITLE: RJ45 Connector with 5G Base-T Integrated Magnetics For PoE++ Application		
ANGLES ±1°		UNIT: mm				
		SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO. : LPJQP9693AONL	
					LP23031922	

Mechanical :

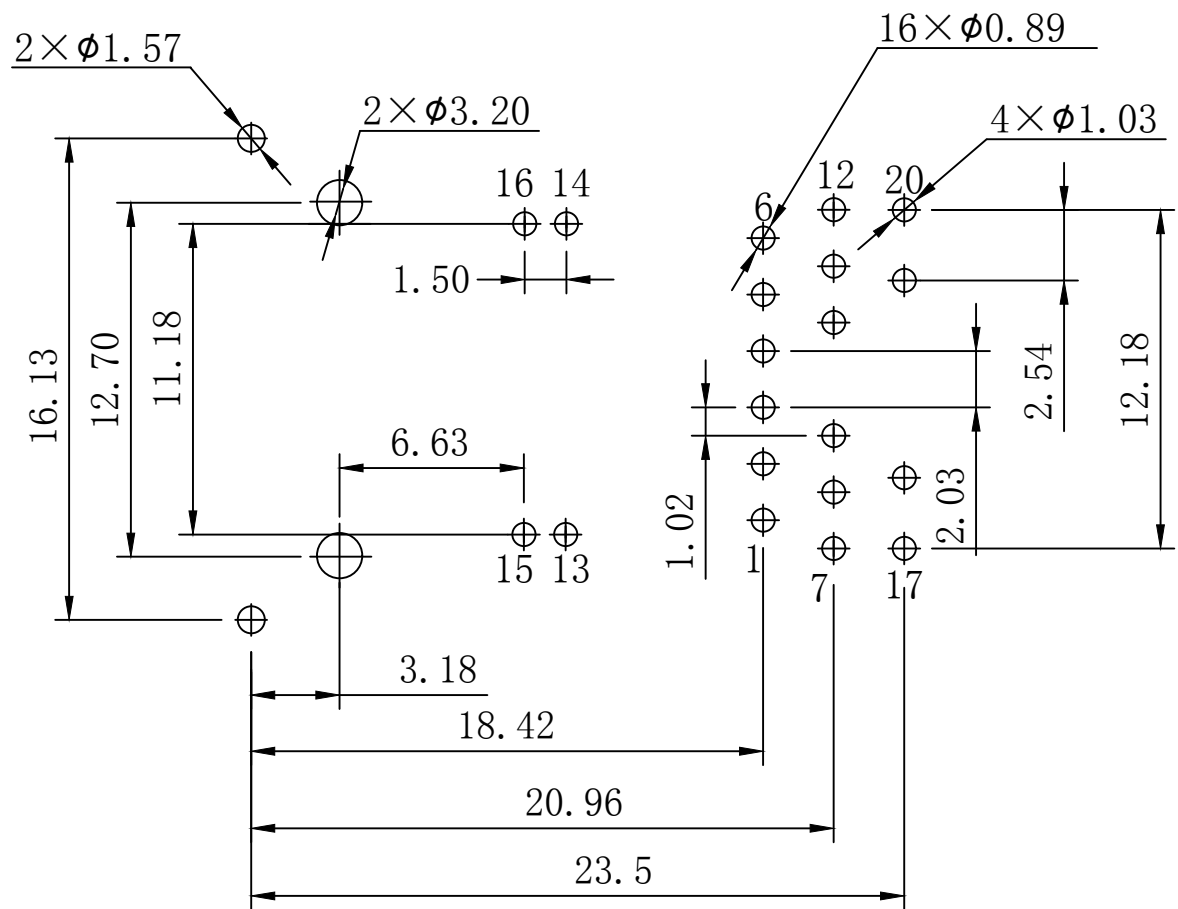
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2023-03-19	



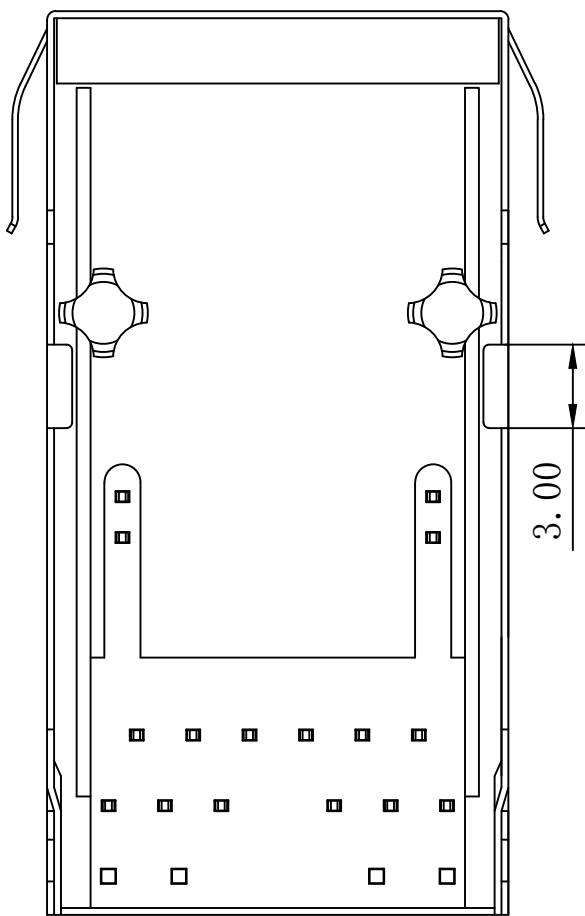
Front Side View



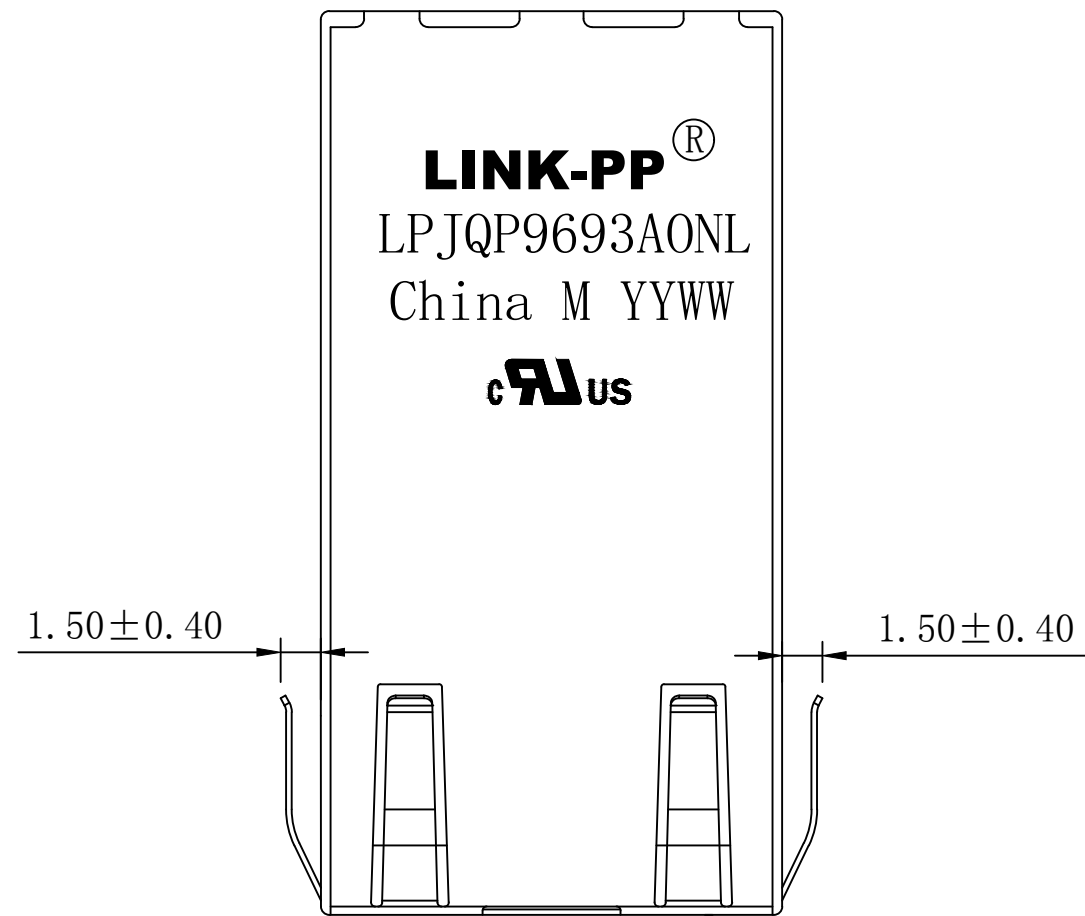
Left Side View



Suggested PCB Layout (Top View)



Bottom Side View



Top Side View

NOTES:

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Meets IEEE 802.3bt specification
3. Connector Materials:
Housing Material: Thermoplastic PBT+30%G.F UL94V-0
Contact Material: Phosphor Bronze C5210R-EH Thickness=0.35mm
Pins: Brass C2680R-H Thickness=0.35mm
Shield: SUS 304 1/2EH Thickness=0.2mm
Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 250°C, 5 Sec.
5. UL Certification: File Number E484635.

X:X	±0.30	APPD: TOM	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX	±0.25	CHKD: JAMES		
X:XXX	±0.05	DR: LEO	TITLE: RJ45 Connector with 5G Base-T Integrated Magnetics For PoE++ Application	
ANGLES	±1°	UNIT: mm	PART NO.: LPJQP9693AONL	
	SCALE: 2/1	SHEET: 2/2	REV: A6	DWG NO.: LP23031922

