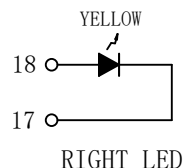
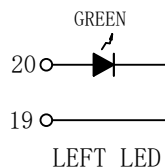
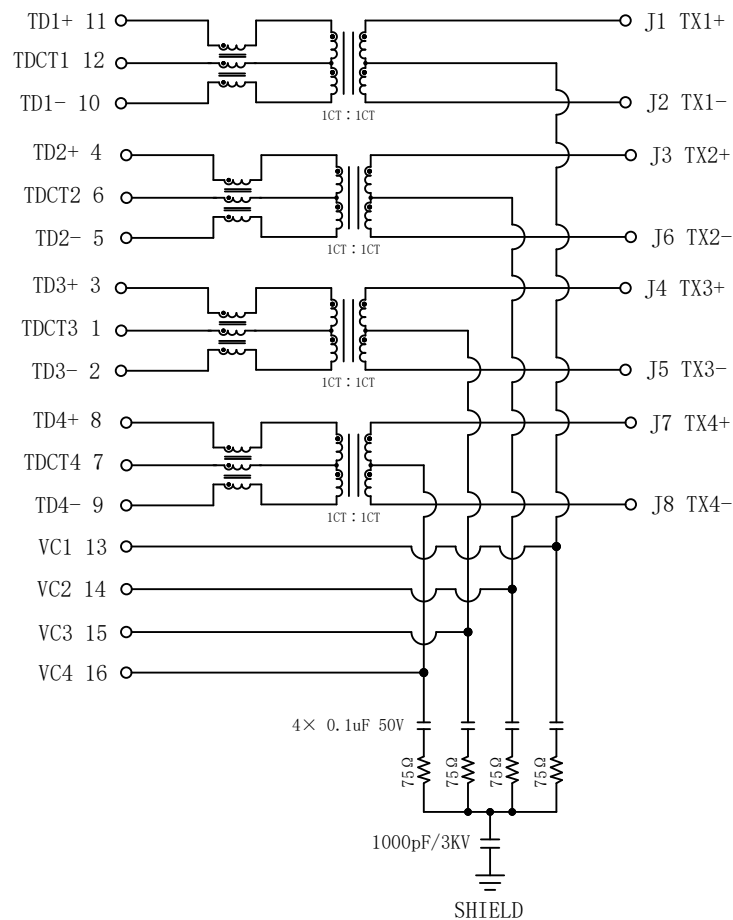


Schematic:

PC BOARD CONNECTIONS



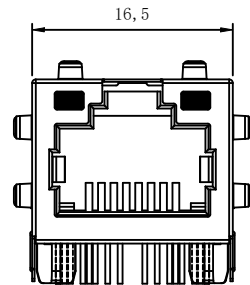
Electrical Specifications @25°C

- Inductance: 350uH Min
@ 100KHz, 0.1V, 8mA DC BIAS
- Turns Ratio($\pm 2\%$):
1CT : 1CT
- Insertion Loss(dB Max):
0.1-1MHz:-1.1 1-65MHz:-0.5
65-100MHz:-0.8 100-125MHz:-1.2
- Return Loss(dB Min):
0.5-40MHz:-18
40-100MHz:-12+20LOG(f/80MHz)
- Crosstalk:
0.1-100MHz:-33+20LOG(f/100MHz)dB Min
- CM TO CM REJ:
0.1-100MHz:-30dB Min
- CM TO DM REJ:
0.1-100MHz:-35dB Min
- Balanced DC Line Current:
700mA Max @57 VDC Continuous
1.2A Max @57 VDC For 200 Milliseconds
- Isolation PHY SIDE To Line SIDE : 1500Vrms
- Operating Temperature: -40°C~+85°C.

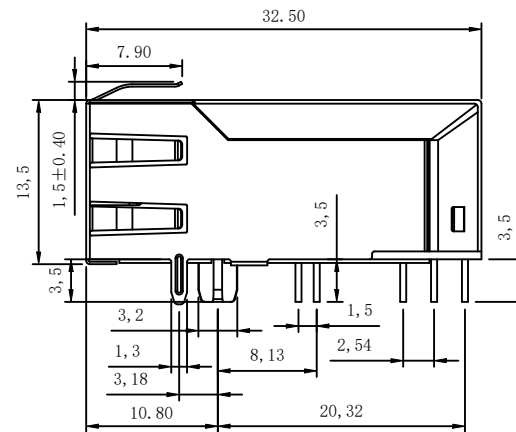
Emitting Color	λ_p (nm)	V _F @I _F =20mA	I _R @V _R =5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max

X:X	± 0.20	APPD: TOM	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX	± 0.10	CHKD: JAMES		
X:XXX	± 0.05	DR: LEO	TITLE: RJ45 Connector with 1000 Base-TX Integrated Magnetic For PoE+ Application	
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO.: LPJK6070AHNL	
	SCALE: 2/1	SHEET: 1/2	REV: A6	DWG NO.: LP23031951

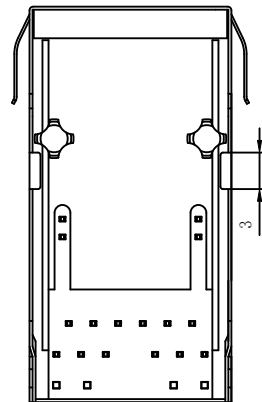
Mechanical:



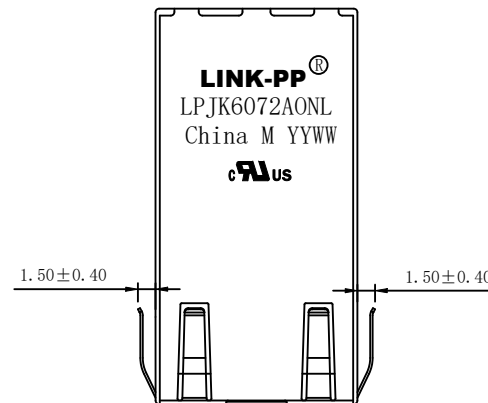
Front Side View



Left Side View

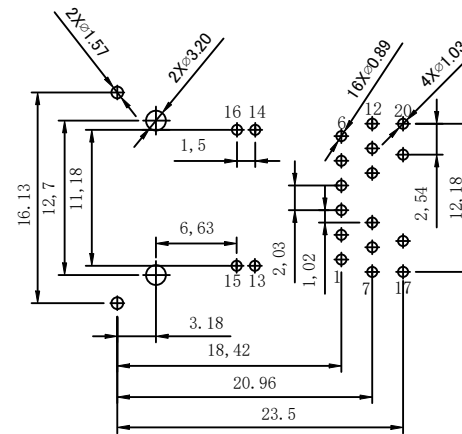


Bottom Side View



Top Side View

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



Suggested PCB Layout (Top View)

NOTES:

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Meets IEEE 802.3at 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		±0.20	APPD: TOM		LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX		±0.10	CHKD: JAMES			
X:XXX		±0.05	DR: LEO		TITLE: RJ45 Connector with 1000 Base-TX Integrated Magnetic For PoE+ Application	
ANGLES		±1°	UNIT: mm		PART NO.: LPJK6070AHNL	
		SCALE: 2/1	SHEET: 2/2		REV: A6	DWG NO.: LP23031951

