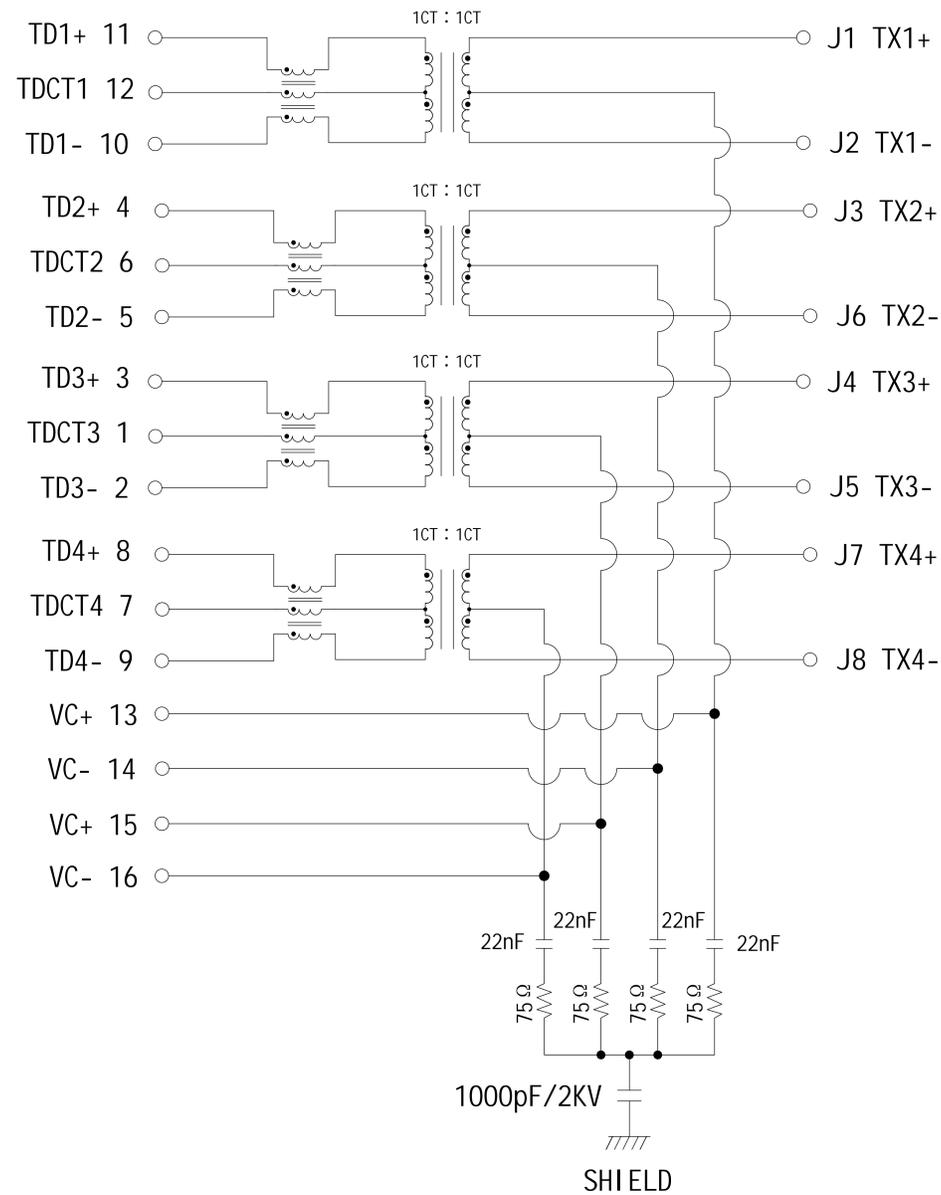


Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2023-03-26	

PCB SIDE TO PHY

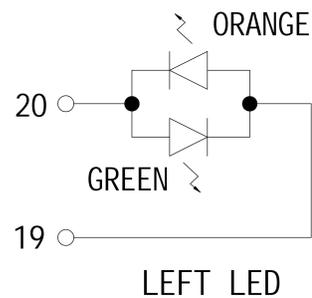


CABLE SIDE

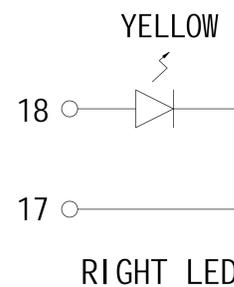
ELECTRICAL SPECIFICATIONS @25°C

- Turn Ratio($\pm 3\%$):
Pri:Sec = 1CT:1CT
- Inductance OCL:
350uH MIN @ 100KHz 0.1V 20mA DC Bias
- DCR: 1.2 Ω MAX
- Insertion Loss:
-1.0dB MAX @ 1-100MHz
- Return Loss:
-18dB MIN @ 1-30MHz
-15dB MIN @ 30-60MHz
-12dB MIN @ 60-100MHz
- Cross talk:
-40dB MIN @ 1-30MHz
-35dB MIN @ 30-60MHz
-30dB MIN @ 60-100MHz
- Common Mode Rejection:
-30dB MIN @ 1-100MHz
- Balanced DC Line Current:
720mA Max @57VDC Continuous
1.2A Max @57VDC for 200 Milliseconds
- Hi pot Test: 1500Vrms
- Operating Temperature Range: -40°C TO +85°C.

Emitting Color	λ_p (nm)	V _F @I _F =20mA	I _R @V _R =5V
ORANGE/GREEN	610/565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max



LEFT LED



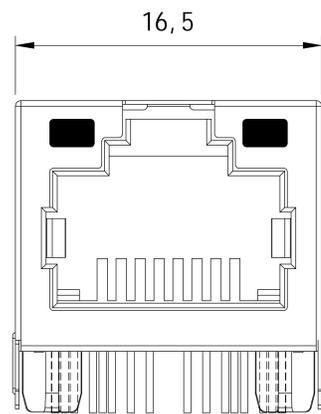
RIGHT LED



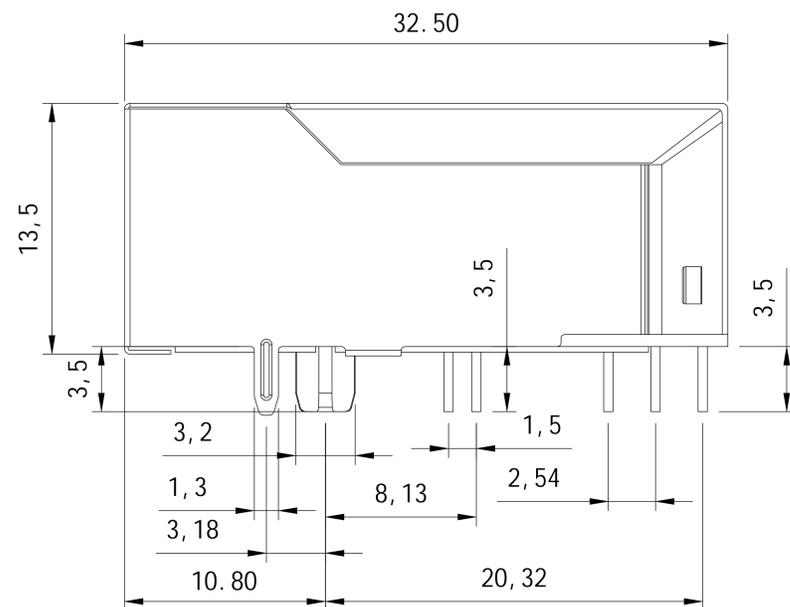
X: X	± 0.30	APPD: TOM	LINK-PP INT'L TECHNOLOGY CO., LIMITED
X: XX	± 0.25	CHKD: JAMES	
X: XXX	± 0.05	DR: LEO	
TITILE: RJ45 Connector with 1000 Base-T Integrated Magnetics For PoE+ Application		PART NO.: LPJK6071BONL	
ANGLES $\pm 1^\circ$	UNIT: mm	SCALE: 2/1	SHEET: 1/2
REV: A6		DWG NO.: LP23032643	

Mechanical :

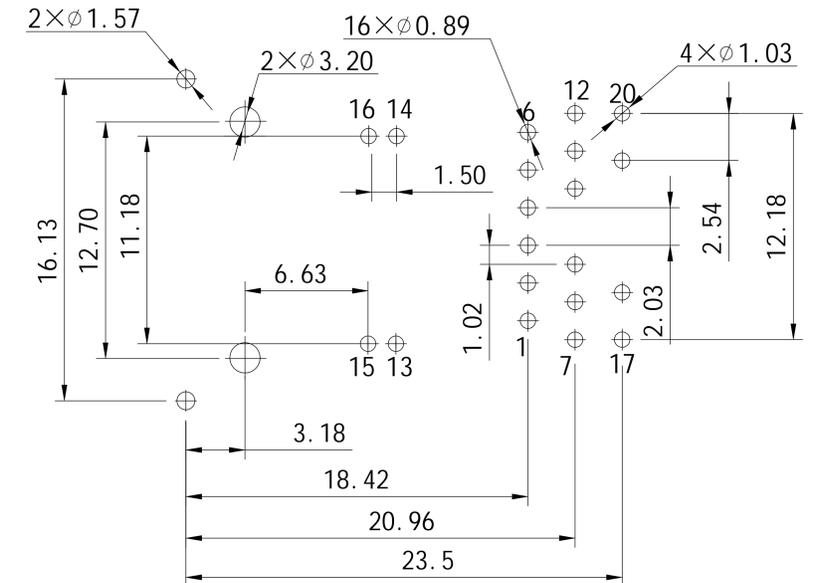
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2023-03-26	



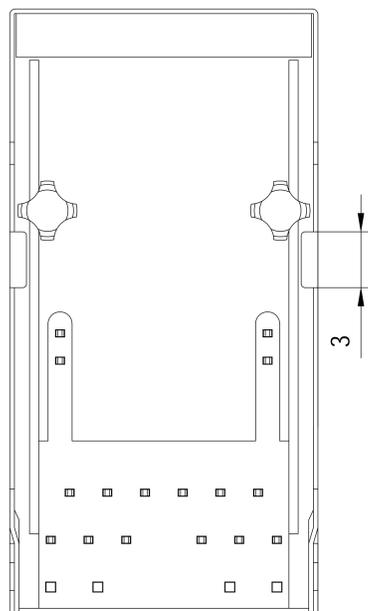
Front Side View



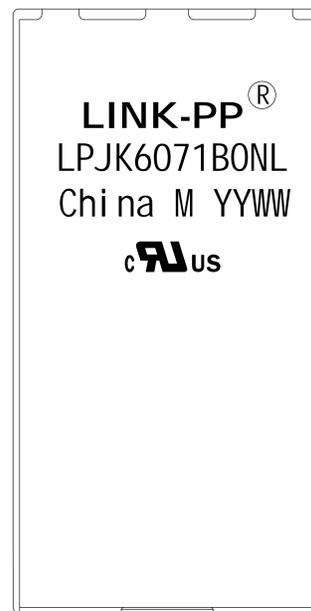
Left Side View



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 802.3af 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 1000 Base-T Integrated Magnetics For PoE+ Application
ANGLES	±1°	UNIT: mm	PART NO.: LPJK6071B0NL
	SCALE: 2/1	SHEET: 2/2	REV: A6 DWG NO.: LP23032643

