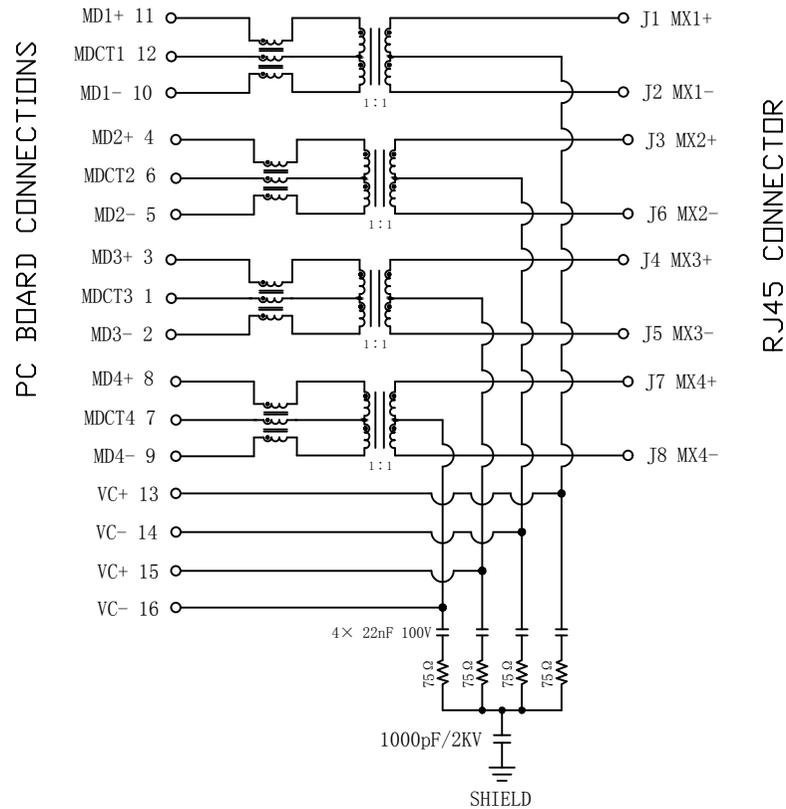


# Schematic:

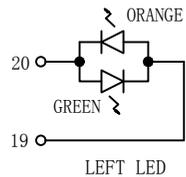
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2023-03-20	



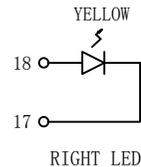
## Electrical Specifications @25°C

- Inductance: 350uH Min @ 100KHz, 0.1V, 8mA DC BIAS
- Turns Ratio(±2%): 1CT:1CT
- Insertion Loss: 1-100MHz:-1.0dB Max
- Return Loss(load 100 Ω): 1-30MHz:-18dB Min  
30-60MHz:-16dB Min  
60-80MHz:-12dB Min  
80-100MHz:-10dB Min
- Crosstalk: 1-100MHz:-30dB Min
- Common Mode Rejection: 1-100MHz:-30dB Min
- Balanced DC Line Current: 720mA Max @57VDC CONTINUOUS  
1.2A Max @57VDC For 200 Miliseconds
- Hipot: 1500Vrms Min @60Hz
- Operating Temperature: -40°C ~ +85°C.

Emitting Color	λp(nm)	VF@IF=20mA	IR @VR=5V
ORANGE/GREEN	610/565	1.8~2.6V	10 μA max
YELLOW	585	1.8~2.6V	10 μA max



LED POLARITY		COLOR
PIN 20	PIN 19	
+	-	GREEN
-	+	ORANGE



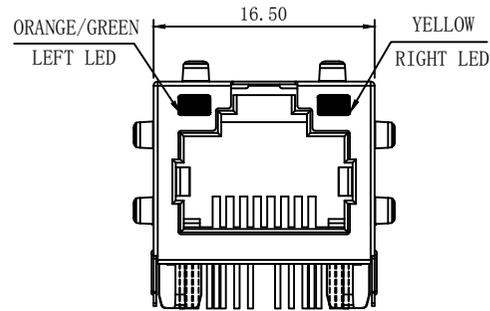
LED POLARITY		COLOR
PIN 18	PIN 17	
+	-	YELLOW



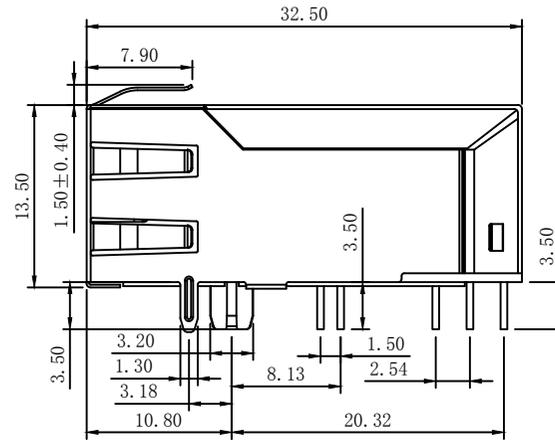
X:X ±0.30	APPD: TOM	LINK-PP INT'L TECHNOLOGY CO., LIMITED
X:XX ±0.25	CHKD: JAMES	
X:XXX ±0.05	DR: LEO	TITLE: RJ45 Connector with 1000 Base-T Integrated Magnetics For PoE+ Application
ANGLES ±1°	UNIT: mm	PART NO.: LPJK6071AONL
	SCALE: 2/1	SHEET: 1/2
	REV: A6	DWG NO.: LP23032012

# Mechanical:

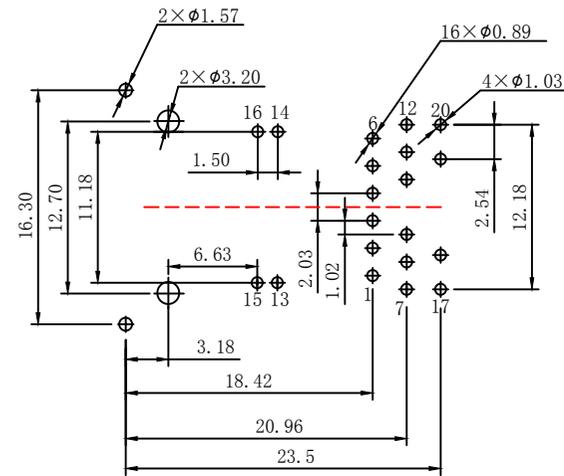
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2023-03-20	



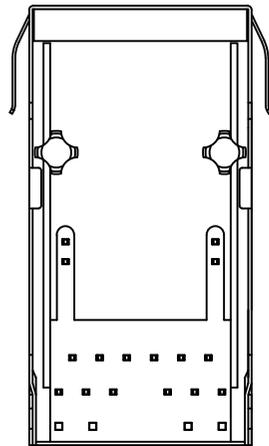
Front Side View



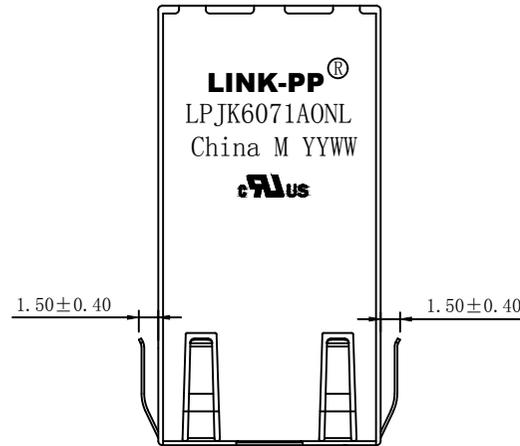
Left Side View



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.: LPJK6071AONL
	SCALE: 2/1	SHEET: 2/2
	REV: A6	DWG NO.: LP23032012