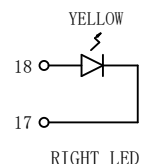
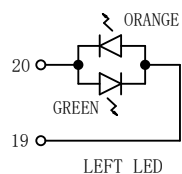
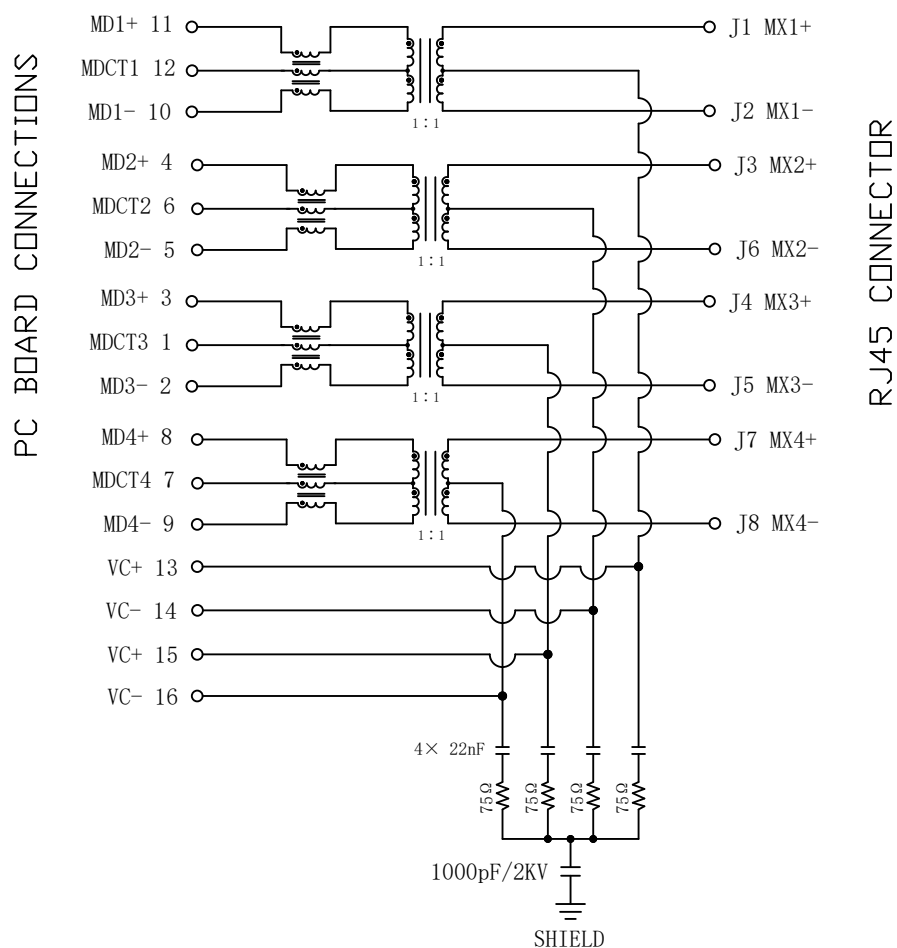


## Schematic:

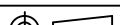
|      |         |             |            |      |
|------|---------|-------------|------------|------|
| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
| A6   | REL     |             | 2023-03-18 |      |



Electrical Specifications @25°C

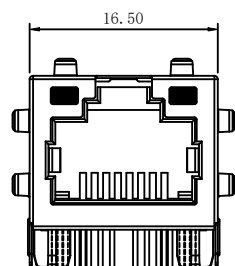
1. Inductance: 350uH Min  
@ 100KHz, 0.1V, 20mA DC BIAS
2. Turns Ratio( $\pm 2\%$ ): 1CT : 1CT
3. Insertion Loss:  
1-100MHz:-1.0dB Max
4. Return Loss(load 100  $\Omega$ ):  
1-30MHz:-18dB Min  
30-60MHz:-16dB Min  
60-80MHz:-12dB Min  
80-100MHz:-10dB Min
5. Crosstalk:  
1-100MHz:-30dB Min
6. Common Mode Rejection:  
1-100MHz:-30dB Min
7. Balanced DC Line Current:  
720mA Max @57VDC Continuous  
1.2A Max @57VDC For 200 Milliseconds.
8. Hipot: 1500Vrms Min @60Hz
9. Operating Temperature:  $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ .

|                |                        |            |                      |
|----------------|------------------------|------------|----------------------|
| Emitting Color | $\lambda_p(\text{nm})$ | VF@IF=20mA | IR @VR=5V            |
| ORANGE/GREEN   | 610/565                | 1.8~2.6V   | 10 $\mu\text{A}$ max |
| YELLOW         | 585                    | 1.8~2.6V   | 10 $\mu\text{A}$ max |

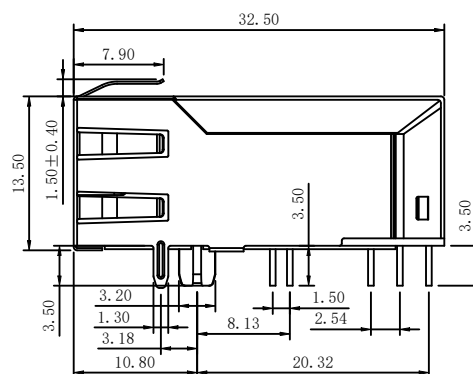
|                                                                                       |  |                |               |                                                                                       |                         |
|---------------------------------------------------------------------------------------|--|----------------|---------------|---------------------------------------------------------------------------------------|-------------------------|
| 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 1000 Base-T<br>Integrated Magnetics For PoE+ Application |                         |
| ANGLES   ±1°                                                                          |  | UNIT:     mm   |               |                                                                                       |                         |
|  |  | SCALE:    2/1  | SHEET:    1/2 | REV:      A6                                                                          | DWG NO. :    LP23031808 |

# Mechanical:

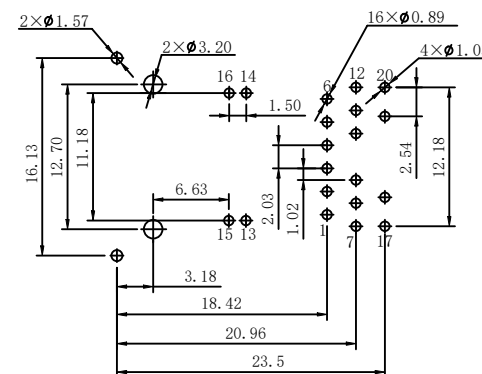
| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
|------|---------|-------------|------------|------|
| A6   | REL     |             | 2023-03-18 |      |



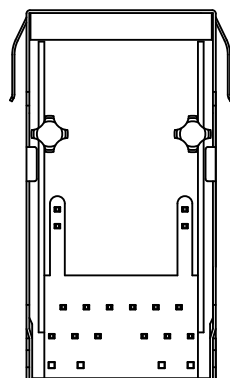
Front Side View



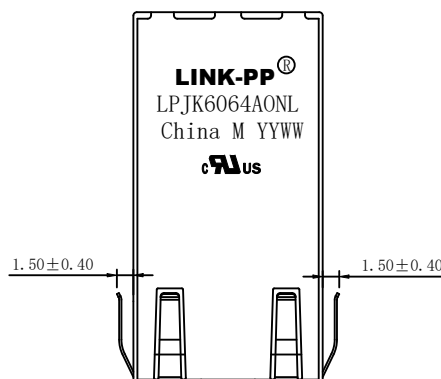
Left Side View



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 802.3at 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    | ±0.30      | 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.: LPJK6064AONL                                                           |                     |
|        | SCALE: 2/1 | SHEET: 2/2  | REV: A6                                                                          | DWG NO.: LP23031808 |
|        |            |             |                                                                                  |                     |

