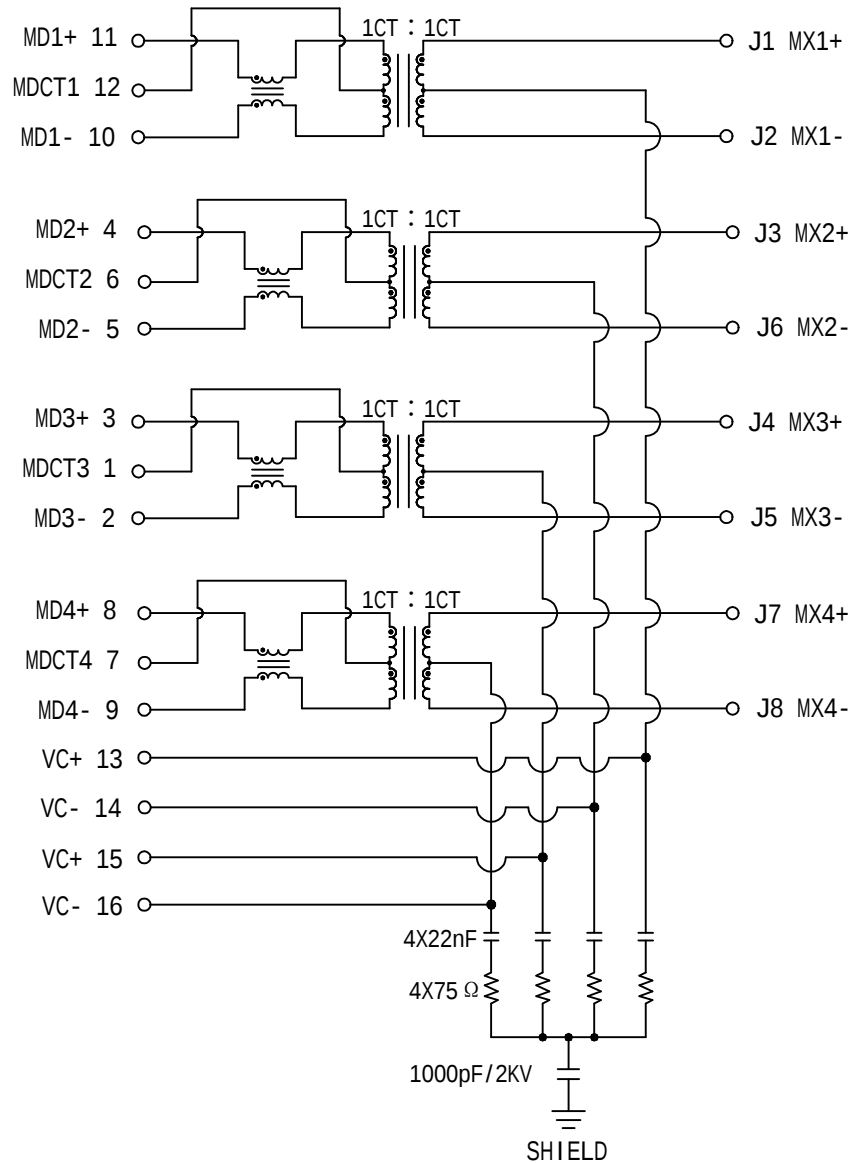


# Schematic:

PC BOARD CONNECTIONS

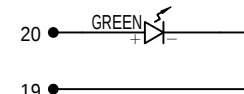


RJ45 CONNECTOR

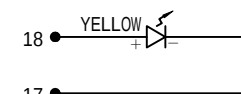
| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
|------|---------|-------------|------------|------|
| A    | REL     |             | 2023-03-18 |      |

## ELECTRICAL SPECIFICATIONS @25°C

- Turn Ratio: 1CT:1CT $\pm$ 5%
- 0CL: 350uH Min @100KHz, 0.1V, 8mA DC Bias
- Insertion Loss (dB Max):
  - 1-100MHz: -1.2
- Return Loss(dB Min):
  - 1-30MHz: -16
  - 30-60MHz: -12
  - 60-80MHz: -10
  - 80-100MHz: -8
- Cross Talk(dB Min):
  - 1-100MHz: -30
- Common Mode Rejection(dB Min):
  - 1-100MHz: -30
- Balance DC Line current:
  - 720mA MAX, @57VDC Continuous;
- Isolation PHY SIDE To Line SIDE : 1500Vrms
- Operating Temperature Range: -40°C~+85°C.



LEFT LED



RIGHT LED

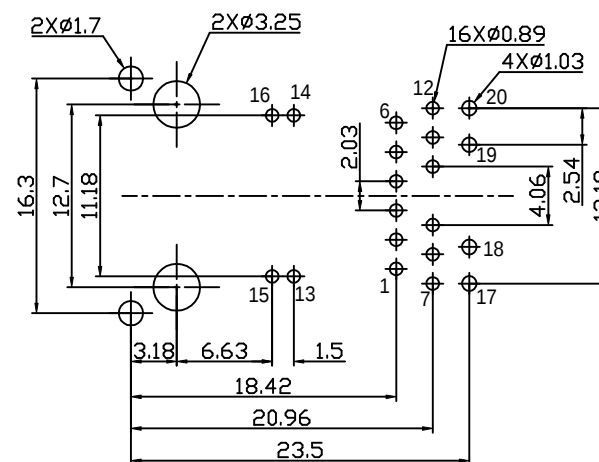
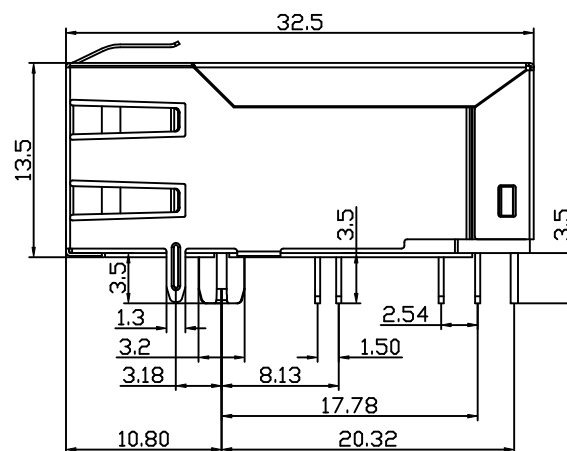
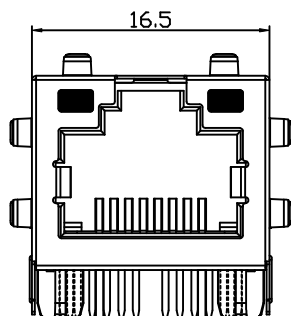
| EMITTING COLOR | $\lambda$ p(nm) | VF @IF=20mA | IR @VR=5V      |
|----------------|-----------------|-------------|----------------|
| ORANGE / GREEN | 610 / 565       | 1.8~2.6V    | 10 $\mu$ A max |
| YELLOW         | 585             | 1.8~2.6V    | 10 $\mu$ A max |

|            |            |             |                                                                                                                            |                     |
|------------|------------|-------------|----------------------------------------------------------------------------------------------------------------------------|---------------------|
| X.X        | $\pm$ 0.30 | APPD: TOM   | LINK-PP INT'L TECHNOLOGY CO., LIMITED                                                                                      |                     |
| X.XX       | $\pm$ 0.25 | CHKD: JAMES | TITLE:<br>RJ45 CONNECTOR WITH 1000 BASE-T INTEGRATED MAGNETICS<br>& WITH EMI SPRING FINGER & WITH LED FOR POE+ APPLICATION |                     |
| X.XXX      | $\pm$ 0.15 | DR: LEO     |                                                                                                                            |                     |
| ANGLES     | $\pm$ 1°   | UNIT: mm    | PART NO.: LPJK6077AHNL                                                                                                     |                     |
| SCALE: 2/1 |            | SHEET: 1/2  | REV: A                                                                                                                     | DWG NO.: LP23031866 |



Mechanical:

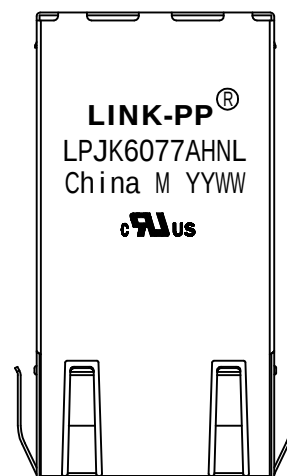
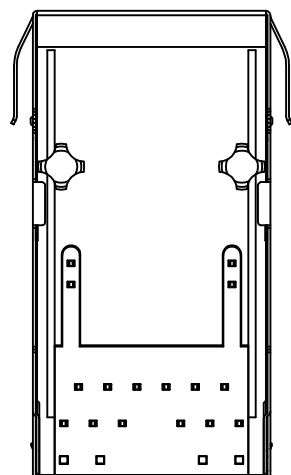
| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
|------|---------|-------------|------------|------|
| A    | REL     |             | 2023-03-18 |      |
|      |         |             |            |      |



RECOMMENDED PCB LAYOUT(TOP VIEW)

NOTES:

- 1.Designed to support application,such as SOHO(ADSL modems),LAN-on-Motherboard(LOM),hub and Switches.
- 2.Meets IEEE802.3 specification.
- 3.Connector Materials:  
Housing: Thermoplastic PBT+30%G.F UL94V-0  
Contact: Phosphor Bronze C5210R-EH Thickness=0.35mm  
Pins: Brass C2680R-H Thickness=0.35mm  
Shield: SUS 304-1/2H Thickness=0.2mm  
Contact plating: Gold 6 micro-inches min.In contact area.
- 4.Wave solder tip temperature and time: 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 | TITLE:<br>RJ45 CONNECTOR WITH 1000 BASE-T INTEGRATED MAGNETICS<br>& WITH EMI SPRING FINGER & WITH LED FOR POE+ APPLICATION |                     |
| X.XXX      | ±0.15 | DR: LEO     |                                                                                                                            |                     |
| ANGLES     | ±1°   | UNIT: mm    | PART NO.: LPJK6077AHNL                                                                                                     |                     |
| SCALE: 2/1 |       | SHEET: 2/2  | REV: A                                                                                                                     | DWG NO.: LP23031866 |