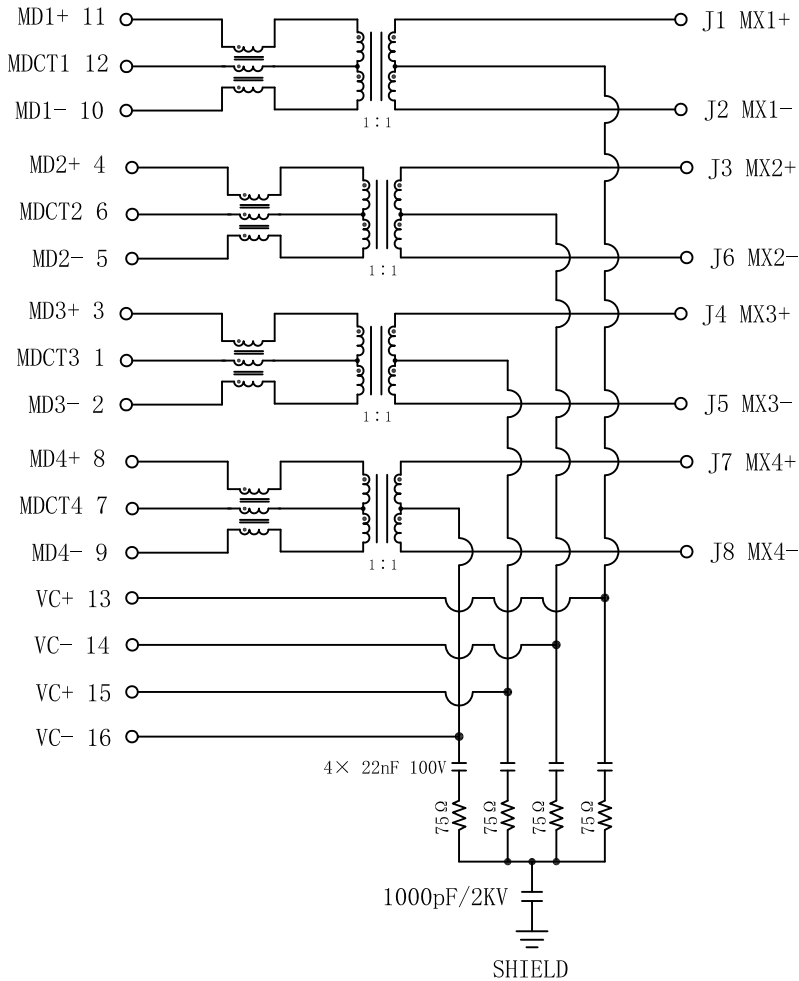


Schematic:

| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
|------|---------|-------------|------------|------|
| A    | REL     |             | 2013-12-26 |      |

PC BOARD CONNECTIONS

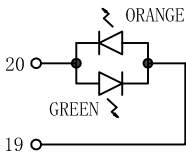


RJ45 CONNECTOR

Electrical Specifications @25°C

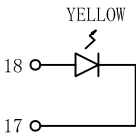
- 1. Inductance: 350uH Min @100KHz, 0.1V, 8mA DC Bias
- 2. Turns Ratio(±2%) : Pri:Sec = 1CT:1CT
- 3. Insertion Loss: 1-100MHz:-1.0dB Max
- 4. Return Loss(load 100 Ω) : 1-30MHz:-18dB Min 30-60MHz:-16dB Min 60-80MHz:-12dB Min 80-100MHz:-10dB Min
- 5. Crosstalk: 1-100MHz:-30dB Min
- 6. Common Mode Rejection: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

| Emitting Color | λ p(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 |



LEFT LED

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



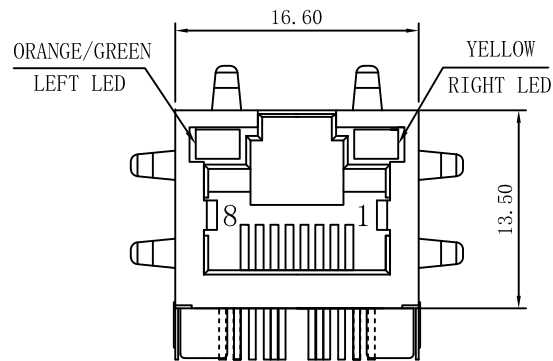
RIGHT LED

| LED POLARITY |        | COLOR  |
|--------------|--------|--------|
| PIN 18       | PIN 17 |        |
| +            | -      | YELLOW |

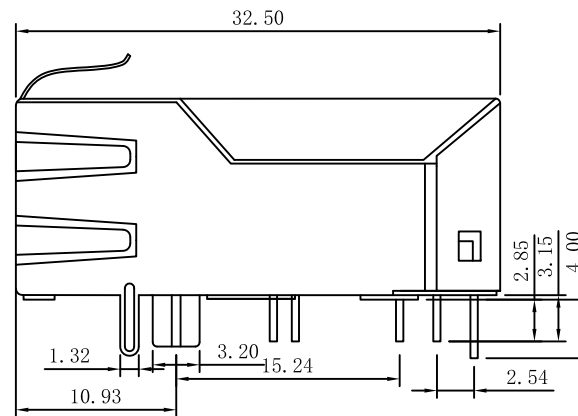


|             |  |            |                                                                                   |                             |
|-------------|--|------------|-----------------------------------------------------------------------------------|-----------------------------|
| X:X ±0.30   |  | APPD:      | LINK-PP INT'L TECHNOLOGY CO., LIMITED                                             |                             |
| X:XX ±0.25  |  | CHKD:      |                                                                                   |                             |
| X:XXX ±0.05 |  | DR: TOM    | TITLE: RJ45 Connector with 1000 Base-T Integrated Magnetics For PoE++ Application |                             |
| ANGLES ±1°  |  | UNIT: mm   | PART NO. : LPJK6071A0NL                                                           |                             |
|             |  | SCALE: 2/1 | SHEET: 1/2                                                                        | REV: A DWG NO. : LP13122612 |

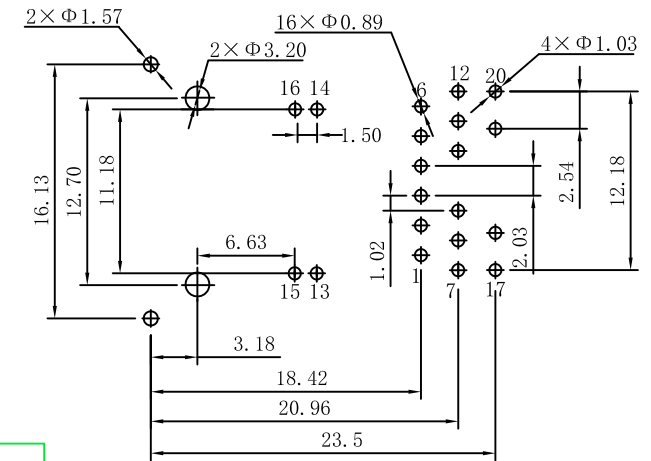
| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
|------|---------|-------------|------------|------|
| A    | REL     |             | 2013-12-26 |      |



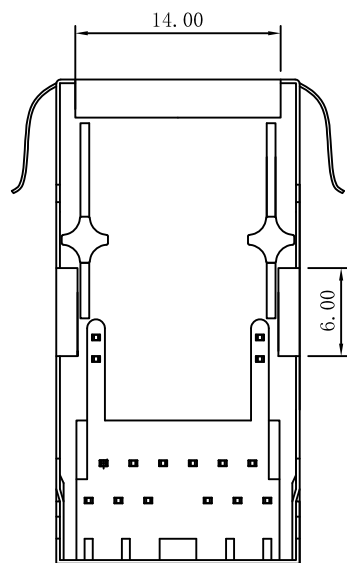
Front Side View



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 802.3at 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: Copper alloy Brass H65Y Thickness=0.2mm
  - Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 265°C Max, 5 Sec Max

|                                                                                       |                 |            |                                                                                      |                      |  |
|---------------------------------------------------------------------------------------|-----------------|------------|--------------------------------------------------------------------------------------|----------------------|--|
| X:X                                                                                   | $\pm 0.30$      | APPD:      | LINK-PP INT'L TECHNOLOGY CO., LIMITED                                                |                      |  |
| X:XX                                                                                  | $\pm 0.25$      | CHKD:      |                                                                                      |                      |  |
| X:XXX                                                                                 | $\pm 0.05$      | DR: TOM    | TITLE: RJ45 Connector with 1000 Base-T<br>Integrated Magnetics For PoE++ Application |                      |  |
| ANGLES                                                                                | $\pm 1^{\circ}$ | UNIT: mm   | PART NO. : LPJK6071AONL                                                              |                      |  |
|  | SCALE: 2/1      | SHEET: 2/2 | REV: A                                                                               | DWG NO. : LP13122612 |  |