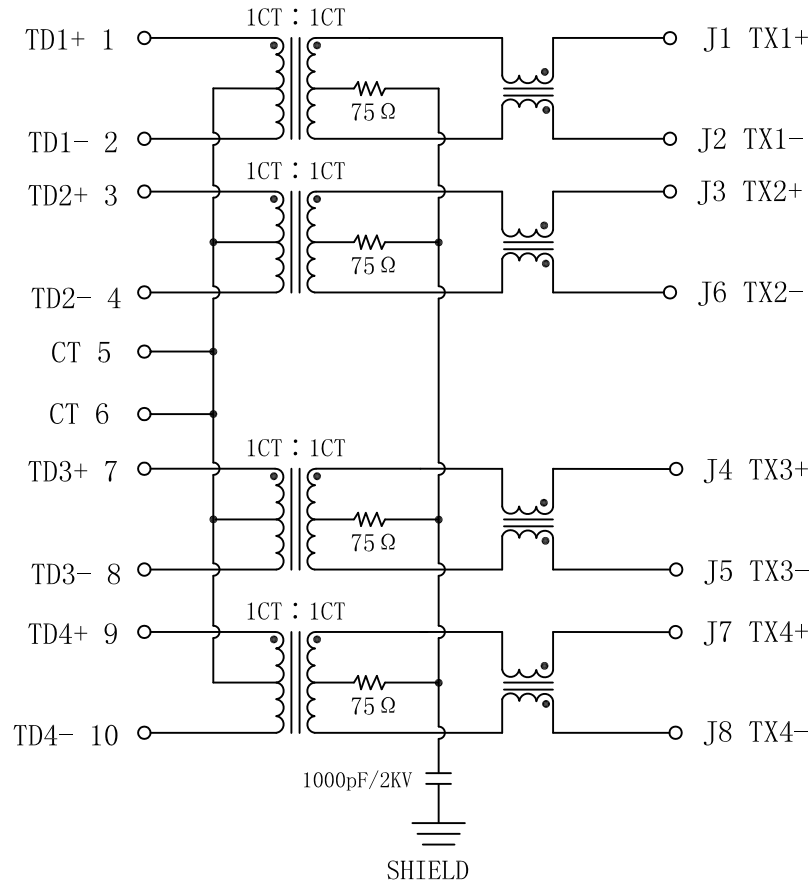


Schematic:

| REV. | ECN NO. | DESCRIPTION | DATE | APPD |
|------|---------|-------------|------------|------|
| A | REL | | 2011/02/11 | |

PCB CONNECTIONS

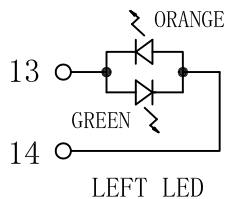


RJ45 CONNECTOR

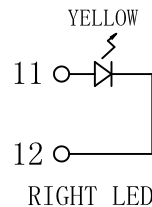
Electrical Specifications @ 25°C

- Turns Ratio ($\pm 2\%$):
Pri : Sec = 1CT : 1CT
- Inductance (@100KHz, 100mV, 8mA DC Bias):
J1-J2; J3-J6; J4-J5; J7-J8: 350uH Min
- Insertion Loss:
1~100MHz: -1.0dB Max
- Return Loss (dB Min. load 100 Ω):
1~30MHz: -18 30~60MHz: -16
60~80MHz: -12 80~100MHz: -10
- Crosstalk (dB Min):
1~100MHz: -25
- Common Mode Rejection (dB Min):
1~100MHz: -30
- Isolation Voltage: 1500Vrms
- Operating Temperature Range: -40°C ~ +85°C.

| Emitting Color | λ_p (nm) | V _F @I _F =20mA | I _R @V _R =5V |
|----------------|------------------|--------------------------------------|------------------------------------|
| GREEN | 565 | 1.8~2.6V | 10 μ A max |
| ORANGE | 610 | 1.8~2.6V | 10 μ A max |
| YELLOW | 685 | 1.8~2.6V | 10 μ A max |



LEFT LED



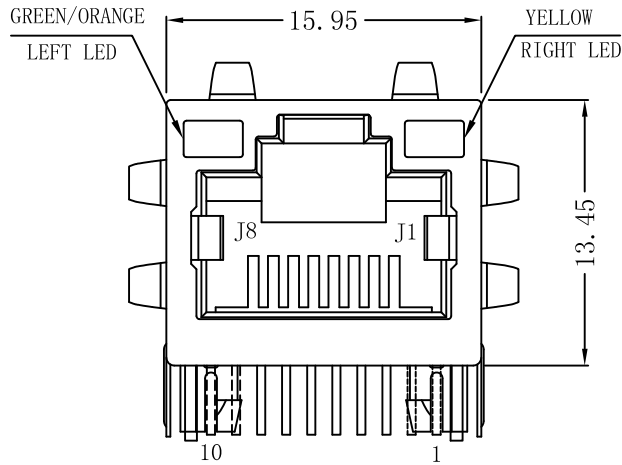
RIGHT LED



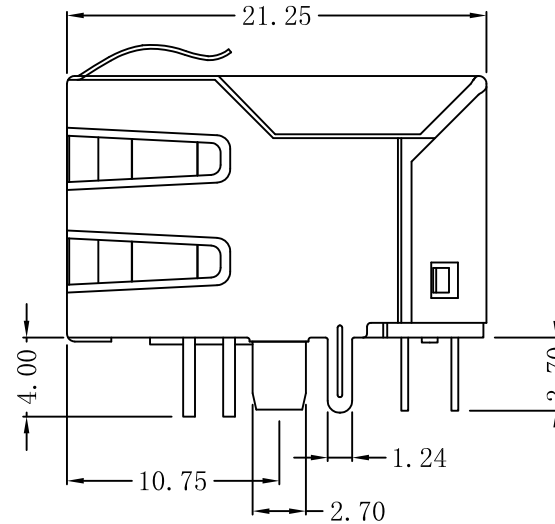
| | | | |
|--------|---------------|------------|---|
| X:X | ± 0.30 | APPD: | LINK-PP INT'L TECHNOLOGY CO., LIMITED |
| X:XX | ± 0.25 | CHKD: | |
| X:XXX | ± 0.05 | DR: TOM | TITLE: RJ45 Connector With 1000 Base-TX Integrated Magnetic |
| ANGLES | $\pm 1^\circ$ | UNIT: mm | PART NO.: LPJG16402A37NL |
| | SCALE: 2/1 | SHEET: 1/2 | REV: A DWG NO.: LP11021139 |

Mechanical:

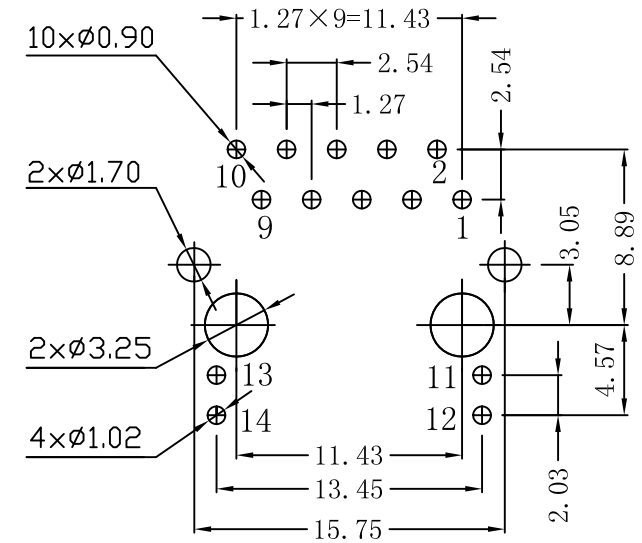
| REV. | ECN NO. | DESCRIPTION | DATE | APPD |
|------|---------|-------------|------------|------|
| A | REL | | 2011/02/11 | |



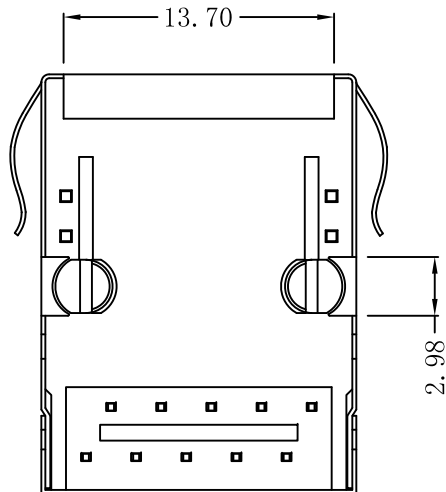
Front Side View



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 802.3 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 201-1/2H Thickness=0.2mm
 Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 265°C Max, 5 Sec.
5. UL Certification: File Number E484635.

| | | | |
|--------|------------|------------|---|
| 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-TX Integrated Magnetic |
| ANGLES | ±1° | UNIT: mm | PART NO.: LPJG16402A37NL |
| | SCALE: 2/1 | SHEET: 2/2 | REV: A DWG NO.: LP11021139 |