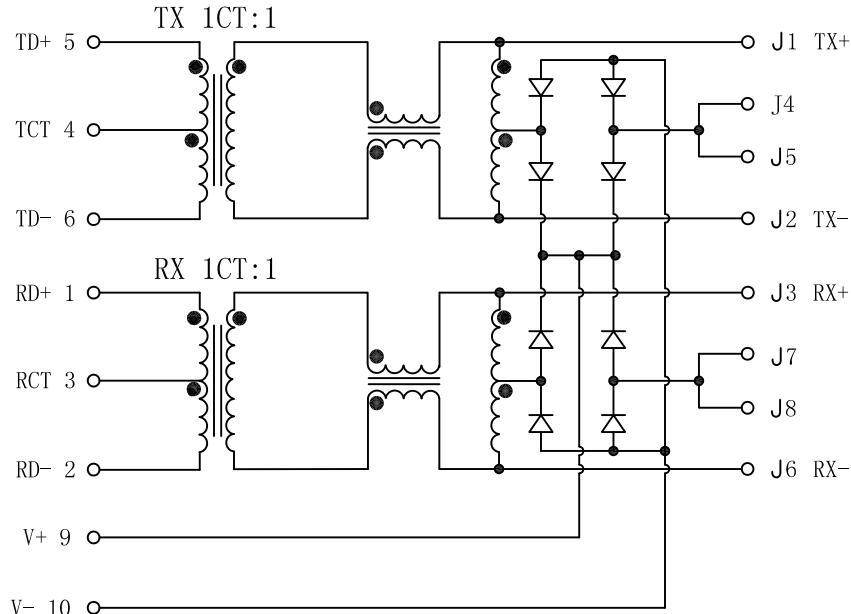


Schematic:

PC BOARD CONNECTIONS



RJ45 CONNECTOR

ELECTRICAL SPECIFICATIONS @25°C

1. Turn Ratio(100KHz, 0. 1V) :

PINS: (5-6) : (J1-J2)=1CT : 1 ±2%

PINS: (1-2) : (J3-J6)=1CT : 1 ±2%

2. OCL (@100KHz, 100mV, 8mA DC Bias) :

PINS: (5-6), (1-2)=350uH MIN

3. Insertion Loss:

-1. 0dB MAX @1~100MHz

4. Return Loss:

-18dB MIN @1~10MHz

-16dB MIN @10~30MHz

-12dB MIN @30~60MHz

-10dB MIN @60~100MHz

5. Cross talk:

-40dB MIN @1~30MHz

-35dB MIN @30~60MHz

-30dB MIN @60~100MHz

6. Common Mode Rejection:

-30dB MIN @1~50MHz

-20dB MIN @50~150MHz

7. PoE Current: 350mA Max.

8. Hipot Test: 1500Vrms

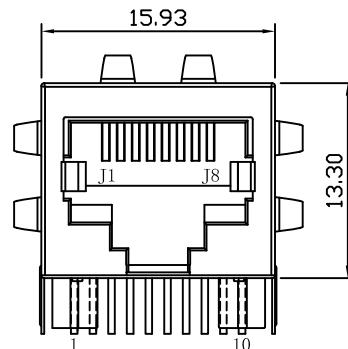
9. Operating Temperature: 0°C TO 70°C.



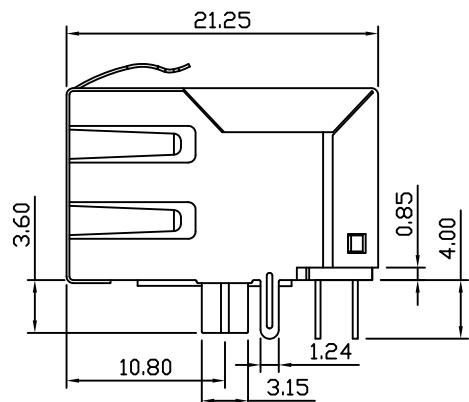
| | | | | | |
|--------|-------|----------|---|------------|---------------------------------------|
| X:X | ±0.30 | APPD: | LINK-PP INT'L TECHNOLOGY CO., LIMITED | | |
| X:XX | ±0.25 | CHKD: | | | |
| X:XXX | ±0.05 | DR: TOM | TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE Application | | |
| ANGLES | ±1° | UNIT: mm | PART NO.: LPJ0049CNL | | |
| | | | | SCALE: 2/1 | SHEET: 1/2 REV: A DWG NO.: LP15031415 |

Mechanical:

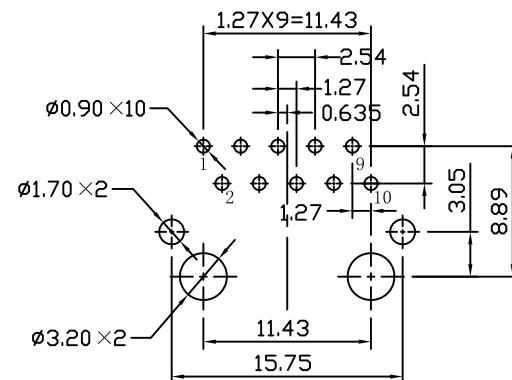
| REV. | ECN NO. | DESCRIPTION | DATE | APPD |
|------|---------|-------------|------------|------|
| A | REL | | 2015-03-14 | |



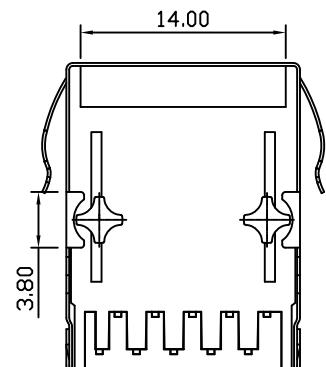
Front Side View



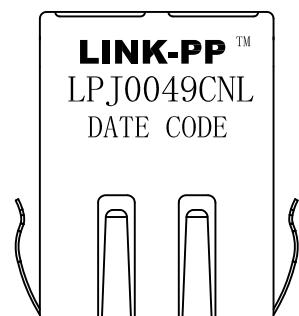
Left Side View



Suggested PCB Layout (Top View)



Bottom Side View



Top Side View

NOTES:

- Designed to support application, such as SOHO(ADSL modems), LAN-on-Motherboard(LOM), hub and Switches.
- Meets IEEE802.3af specification
- Connector Materials:
Housing: Thermoplastic PBT+30%G. F UL94V-0
Contact: Phosphor Bonze 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.
- Wave solder tip temperature: 265°C Max, 5 Sec Max

| | | | | | |
|--------|---------------|----------|---|------------|---------------------------------------|
| X:X | ± 0.30 | APPD: | LINK-PP INT'L TECHNOLOGY CO., LIMITED | | |
| X:XX | ± 0.25 | CHKD: | TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE Application | | |
| X:XXX | ± 0.05 | DR: TOM | | | |
| ANGLES | $\pm 1^\circ$ | UNIT: mm | PART NO.: LPJ0049CNL | | |
| | | | | SCALE: 2/1 | SHEET: 2/2 REV: A DWG NO.: LP15031415 |