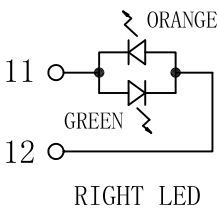
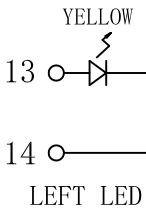
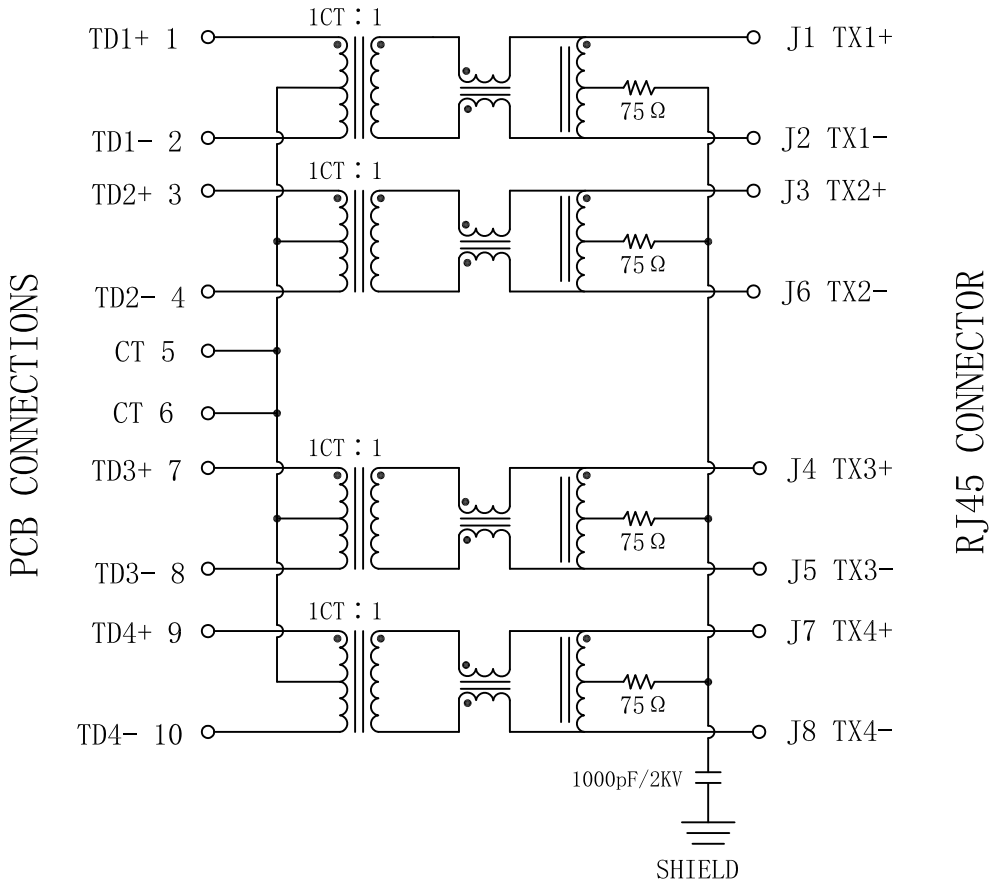


Schematic:

| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
|------|---------|-------------|------------|------|
| A    | REL     |             | 2013/07/03 |      |



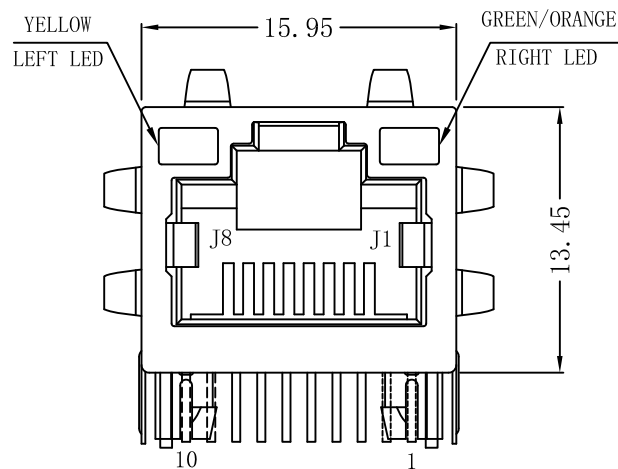
Electrical Specifications @ 25°C

- Turns Ratio( $\pm 2\%$ ):  
Pri : Sec = 1CT : 1
- Inductance(@100KHz, 100mV, 8mA DC Bias):  
J1-J2;J3-J6;J4-J5;J7-J8: 350uH Min
- Insertion Loss:  
0.1~0.9MHz:-1.0dB Max  
0.9~100MHz:-1.1dB Max
- Return Loss(dB Min):  
0.1~15MHz:-18      15~60MHz:-16  
60~80MHz:-15      80~100MHz:-12
- Crosstalk(dB Min):  
0.1~0.9MHz:-43      1~15MHz:-35  
15~30MHz:-26      30~100MHz:-24
- Common Mode Rejection(dB Min):  
0.1~30MHz:-46      30~100MHz:-42
- Isolation Voltage: 1500Vrms
- Operating Temperature Range: 0°C~70°C.

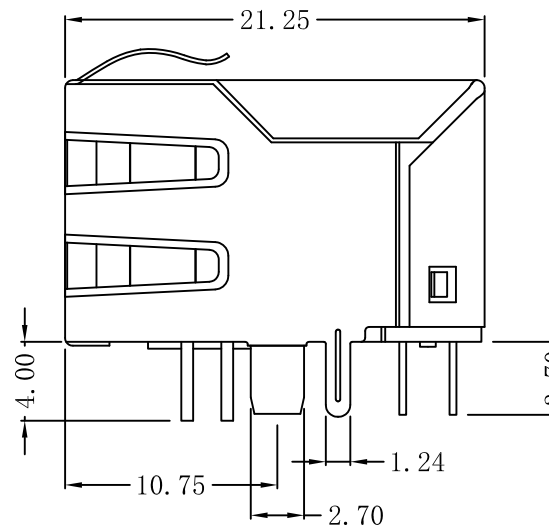
| Emitting Color | $\lambda$ p(nm) | VF@IF=20mA | IR @VR=5V      |
|----------------|-----------------|------------|----------------|
| GREEN          | 565             | 1.8~2.6V   | 10 $\mu$ A max |
| ORANGE         | 610             | 1.8~2.6V   | 10 $\mu$ A max |
| YELLOW         | 585             | 1.8~2.6V   | 10 $\mu$ A 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-TX Integrated Magnetic |                     |
| ANGLES | $\pm 1^\circ$ | UNIT: mm   | PART NO.: LPJG16305AQN                                      |                     |
|        | SCALE: 2/1    | SHEET: 1/2 | REV: A                                                      | DWG NO.: LP14070310 |

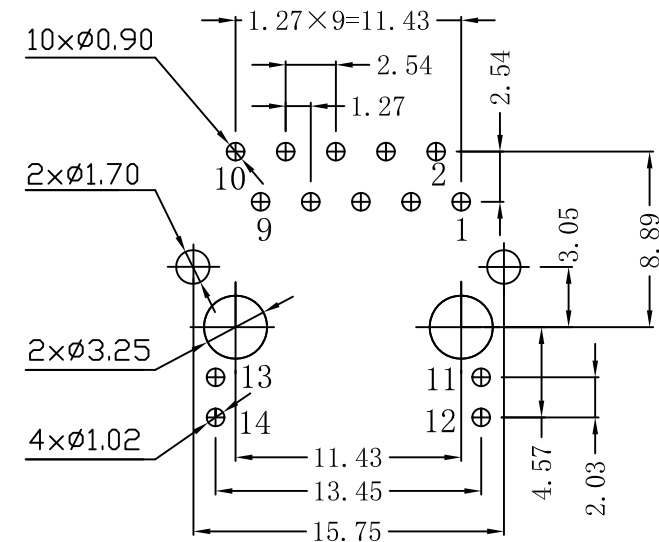
| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
|------|---------|-------------|------------|------|
| A    | REL     |             | 2014/07/03 |      |



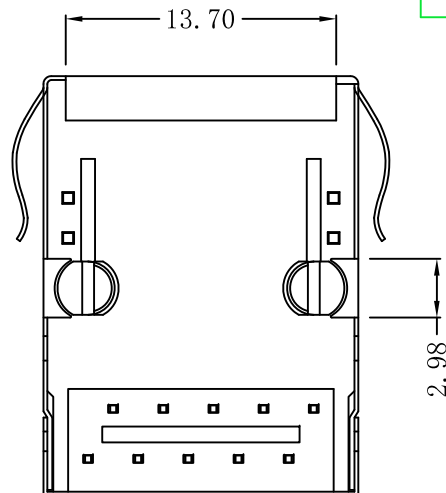
Front Side View



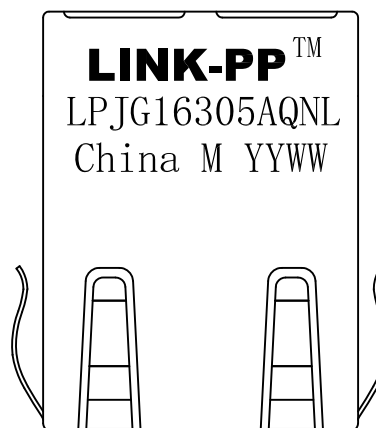
Left Side View



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<br>Integrated Magnetic |  |
| ANGLES                                                                                |  | ±1°        | UNIT: mm   |        | PART NO.: LPJG16305AQN                                         |  |
|  |  | SCALE: 2/1 | SHEET: 2/2 | REV: A | DWG NO.: LP14070310                                            |  |