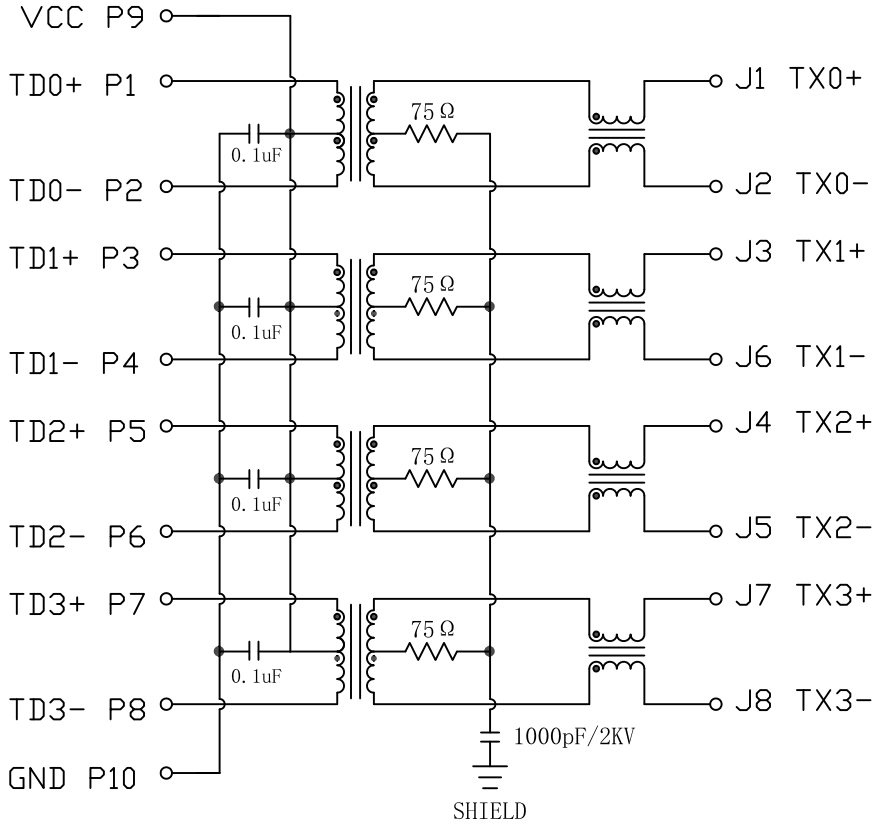


Schematic:

PCB CONNECTIONS



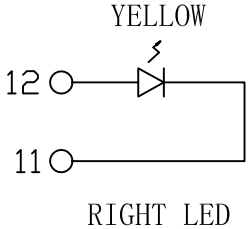
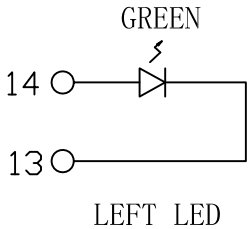
RJ45 CONNECTOR

Electrical Specifications @25°C

- Turns Ratio:  
PRI:SEC = 1CT:1CT  $\pm 2\%$
- 0CL:  
350uH MIN @ 100KHz, 100mV, 8mADC
- Insertion Loss:  
1~100MHz:-1.0dB MAX
- Return Loss(dB MIN):  
1~30MHz:-18                      30~60MHz:-14  
60~80MHz:-12
- Crosstalk(dB TYP):  
1~30MHz:-40                      30~60MHz:-35  
60~80MHz:-30
- Differential to Common Mode Rejection:  
1~50MHz: -30dB TYP  
50~150MHz: -20dB TYP
- CMRR: 1~100MHz:-30dB MIN
- Isolation: 1500Vrms MIN
- Operating Temperature Range: -40°C ~ +85°C.



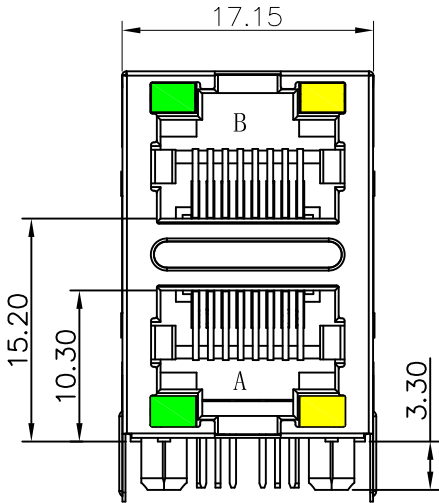
| Emitting Color | $\lambda$ p(nm) | VF@IF=20mA | IR @VR=5V      |
|----------------|-----------------|------------|----------------|
| GREEN          | 565             | 1.8~2.4V   | 10 $\mu$ A max |
| YELLOW         | 585             | 1.8~2.4V   | 10 $\mu$ A max |



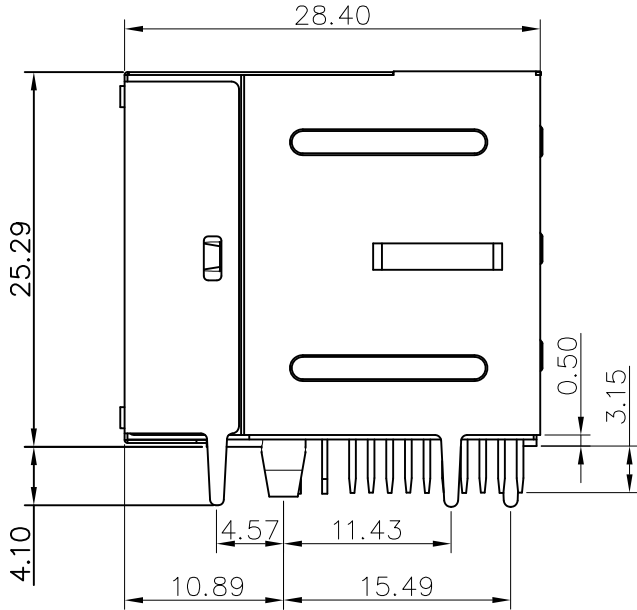
|                      |              |                                                                 |                                   |
|----------------------|--------------|-----------------------------------------------------------------|-----------------------------------|
| X:X $\pm 0.30$       | APPD:        | LINK-PP INT'L TECHNOLOGY CO., LIMITED                           |                                   |
| X:XX $\pm 0.25$      | CHKD:        |                                                                 |                                   |
| X:XXX $\pm 0.05$     | DR:   TOM    | TITLE: 2*1 RJ45 Connector with 1000 Base-T Integrated Magnetics |                                   |
| ANGLES $\pm 1^\circ$ | UNIT:   mm   | PART NO.:   LPJG17561BHNL                                       |                                   |
|                      | SCALE:   2/1 | SHEET:   1/2                                                    | REV:   A    DWG NO.:   LP11022518 |

Mechanical:

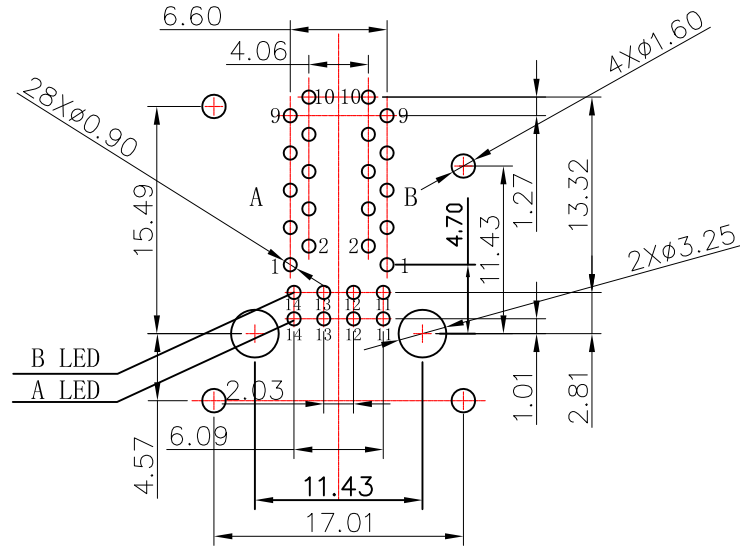
| REV. | ECN NO. | DESCRIPTION | DATE       | APPD |
|------|---------|-------------|------------|------|
| A    | REL     |             | 2011-02-25 |      |



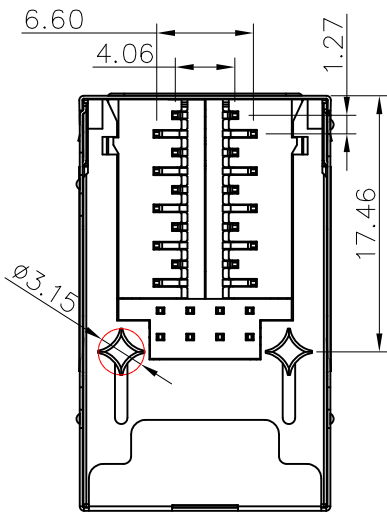
Front Side View



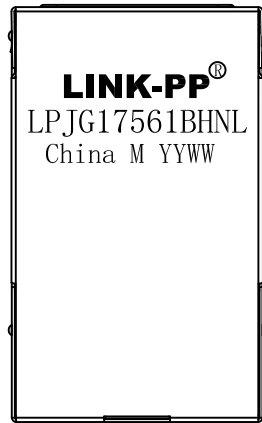
Left Side View



### Suggested PCB Layout (Top View)



Bottom Side View



Top Side View

NOTES:

1. Meets IEEE 802.3 specification

- ## 2. 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=0.20mm

Shield plating: Nickel

Contact plating: Gold 6 micro-inches min. In contact area.

3. Wave solder tip temperature: 265°C Max, 5 Sec.

- 4.UL Certification: File Number E484635.



|                                                                                       |  |               |               |                                                                    |                            |  |  |
|---------------------------------------------------------------------------------------|--|---------------|---------------|--------------------------------------------------------------------|----------------------------|--|--|
| 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: 2*1 RJ45 Connector with 1000 Base-T<br>Integrated Magnetics |                            |  |  |
| ANGLES $\pm 1^\circ$                                                                  |  | UNIT:   mm    |               | PART NO. :    LPJG17561BHNL                                        |                            |  |  |
|  |  | SCALE:    2/1 | SHEET:    2/2 | REV:     A                                                         | DWG NO. :       LP11022518 |  |  |