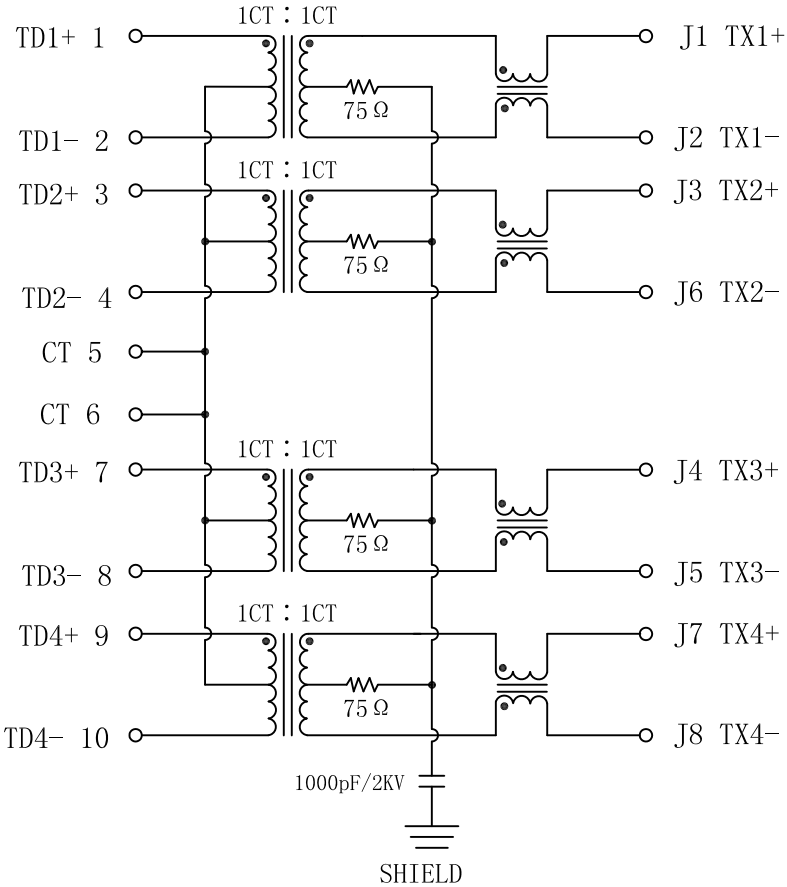


Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2010/06/17	

PC BOARD CONNECTIONS

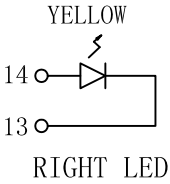
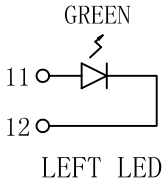


RJ45 CONNECTOR

- Electrical Specifications @ 25°C
- Turns Ratio( $\pm 2\%$ ):  
TX=1CT:1CT      RX=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  $\Omega$ ):  
1~30MHz:-18      30~60MHz:-16  
60~80MHz:-12      80~100MHz:-10
  - Crosstalk(dB Min):  
1~30MHz:-40      30~60MHz:-35  
60~100MHz:-30
  - Common Mode Rejection(dB Min):  
1~50MHz:-40      50~150MHz:-30
  - Isolation Voltage: 1500Vrms
  - Operating Temperature Range: 0°C~70°C.

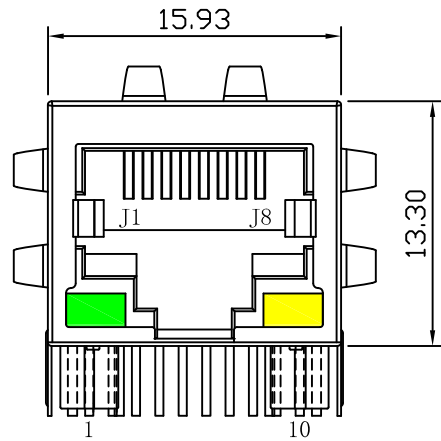


Emitting Color	$\lambda$ p(nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 $\mu$ A max
YELLOW	585	1.8~2.6V	10 $\mu$ A max

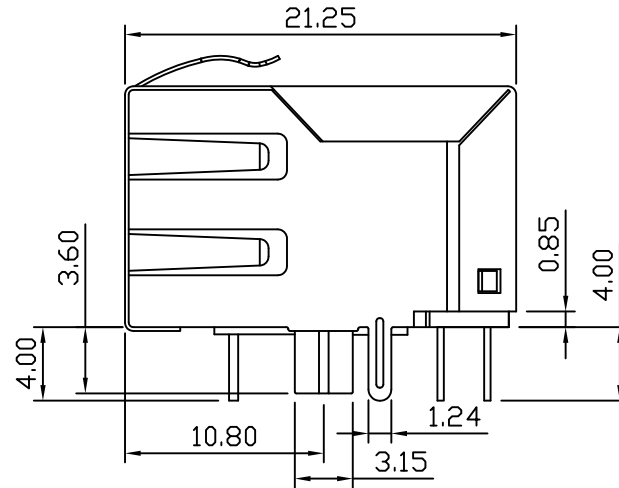


X:X $\pm 0.30$	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED		
X:XX $\pm 0.25$	CHKD:	TITLE: RJ45 Connector with 1000 Base-T Integrated Magnetics		
X:XXX $\pm 0.05$	DR:    TOM			
ANGLES $\pm 1^\circ$	UNIT:   mm	PART NO. :    LPJG0801EBNL		
	SCALE:   2/1	SHEET:   1/2	REV:    A	DWG NO. :   LP10061725

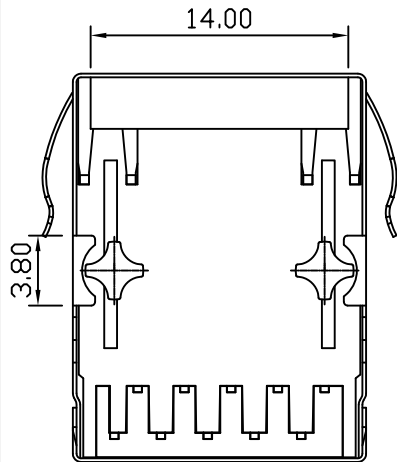
# Mechanical:



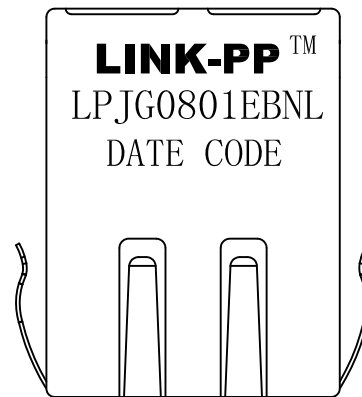
Front Side View



Left Side View

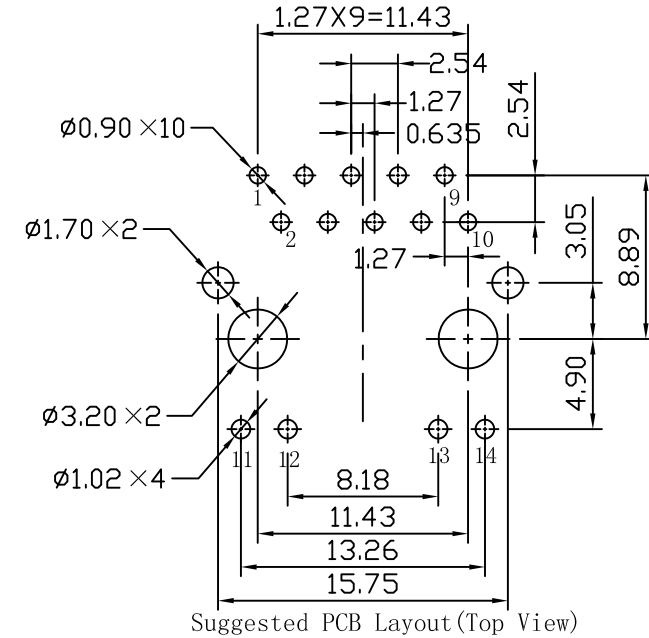


Bottom Side View



Top Side View

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2010/06/17	



Suggested PCB Layout (Top View)

## NOTES:

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Meets IEEE802.3 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 Max.

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	
ANGLES	±1°	UNIT: mm	PART NO.: LPJG0801EBNL	
		SCALE: 2/1	SHEET: 2/2	REV: A
		DWG NO.: LP10061725		