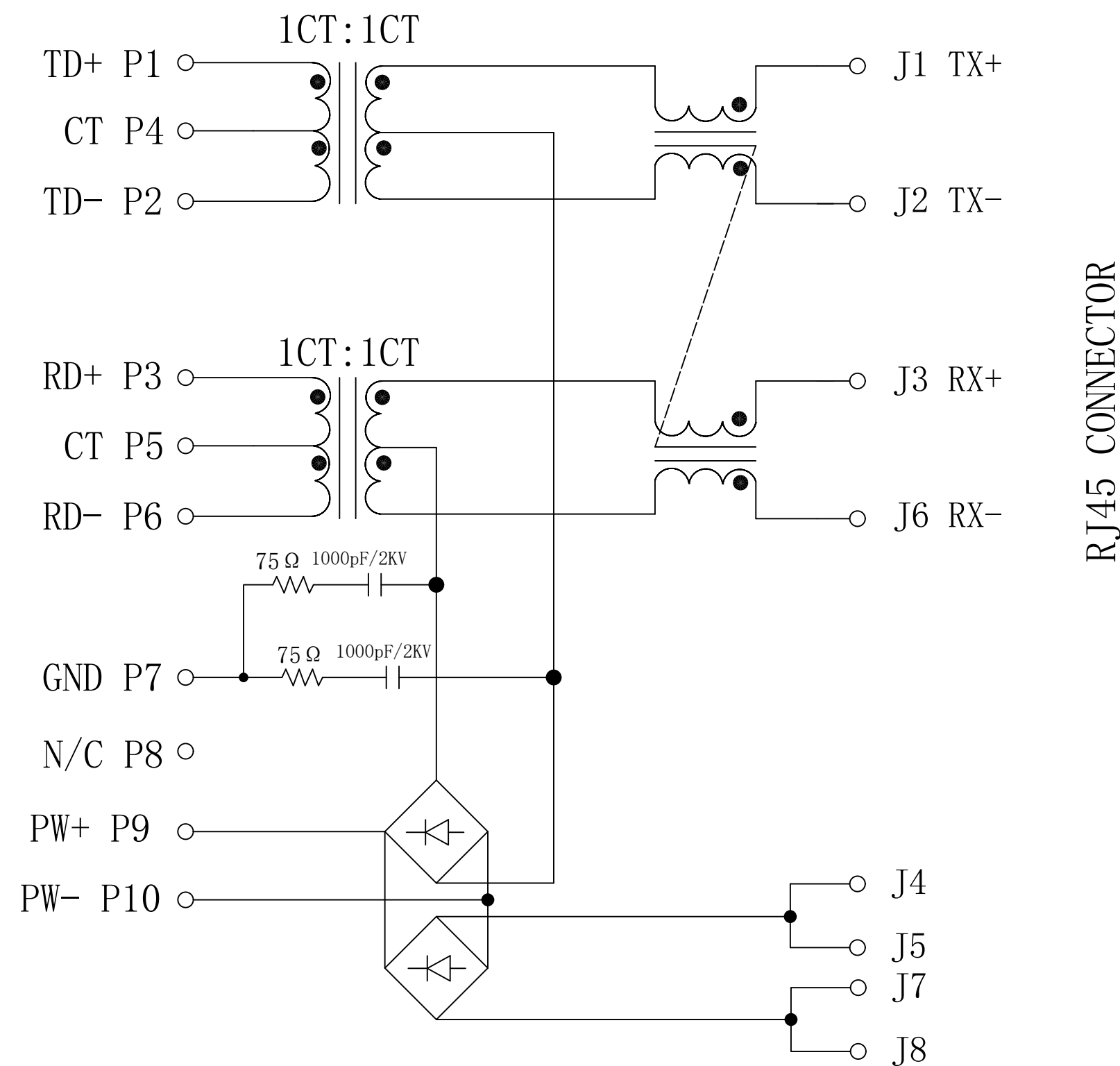


Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2014-07-21	

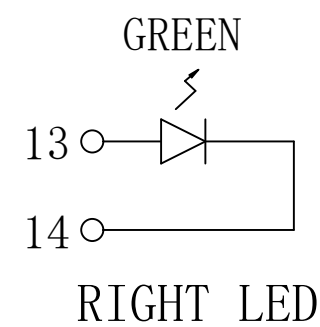
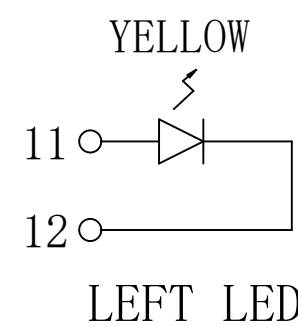
PC BOARD CONNECTIONS



RJ45 CONNECTOR

ELECTRICAL SPECIFICATIONS @25°C

- Turn Ratio(@100KHz, 0.1V) :
PINS: (1-2) : (J1-J2)=1 : 1 $\pm 3\%$
PINS: (3-6) : (J3-J6)=1 : 1 $\pm 3\%$
- OCL(@100KHz, 100mV, 8mA DC Bias) :
PINS: (1-2), (3-6)=350uH MIN
- Insertion Loss:
-1.1dB MAX @0.1~100MHz
- Return Loss:
-18dB MIN @0.5~30MHz
-15.5dB MIN @40MHz
-13.6dB MIN @50MHz
-12dB MIN @60~80MHz
- Cross talk:
-38dB TYP @1~100MHz
- Common Mode Rejection:
-50dB TYP @0.1~30MHz
-40dB TYP @30~60MHz
-30dB TYP @60~100MHz
- Isolation PHY SIDE To Line SIDE : 1500Vrms
- Operating Temperature: 0°C~70°C.



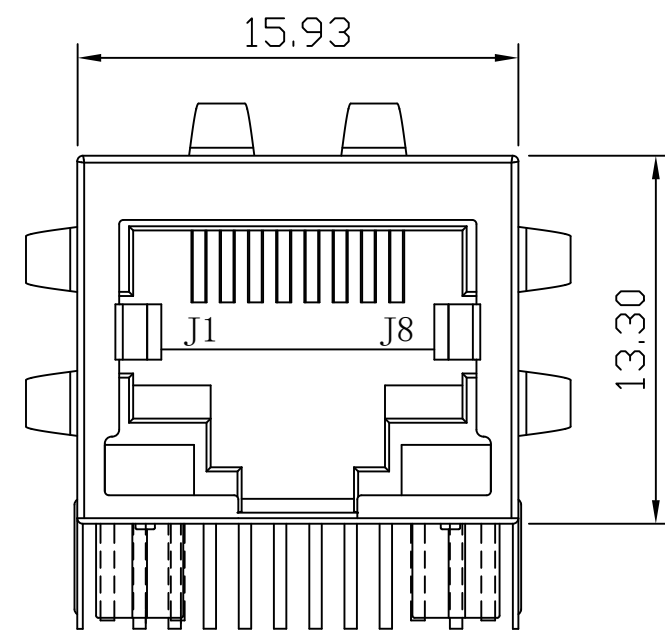
Emitting Color	λ_p (nm)	V _F @I _F =20mA	I _R @V _R =5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max



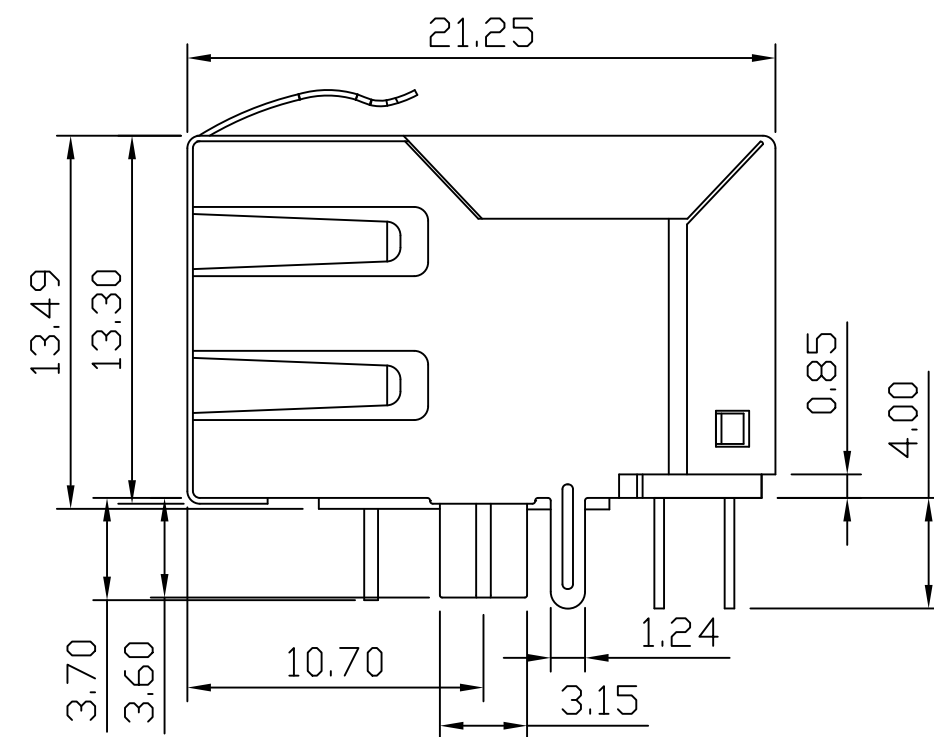
X:X	± 0.30	APPD: TOM	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX	± 0.25	CHKD: JAMES		
X:XXX	± 0.05	DR: LEO	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE Application	
ANGLES $\pm 1^\circ$	UNIT: mm	PART NO. : LPJ0284GDNLV		
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO. : LP14072142

Mechanical:

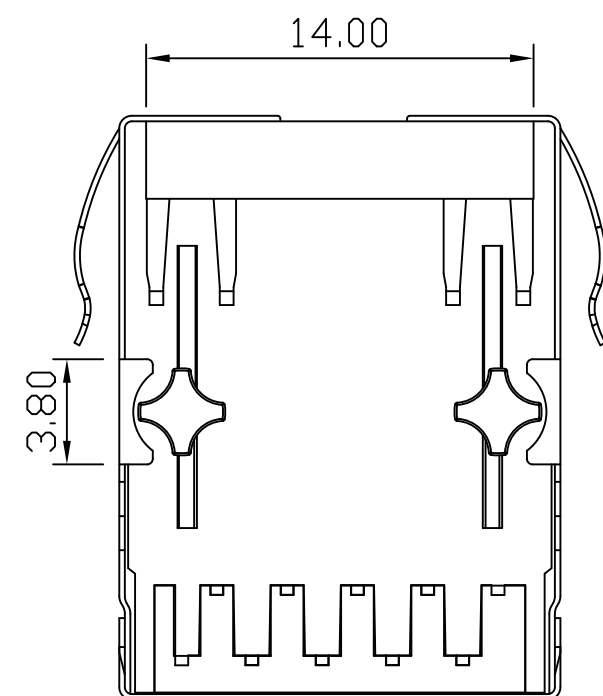
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2014-07-21	



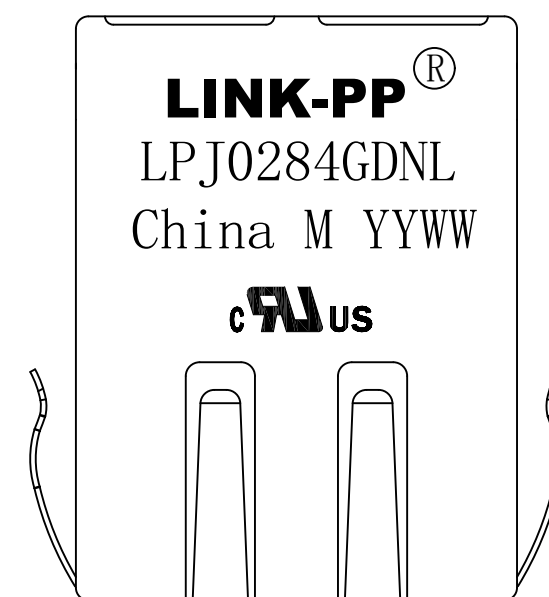
Front Side View



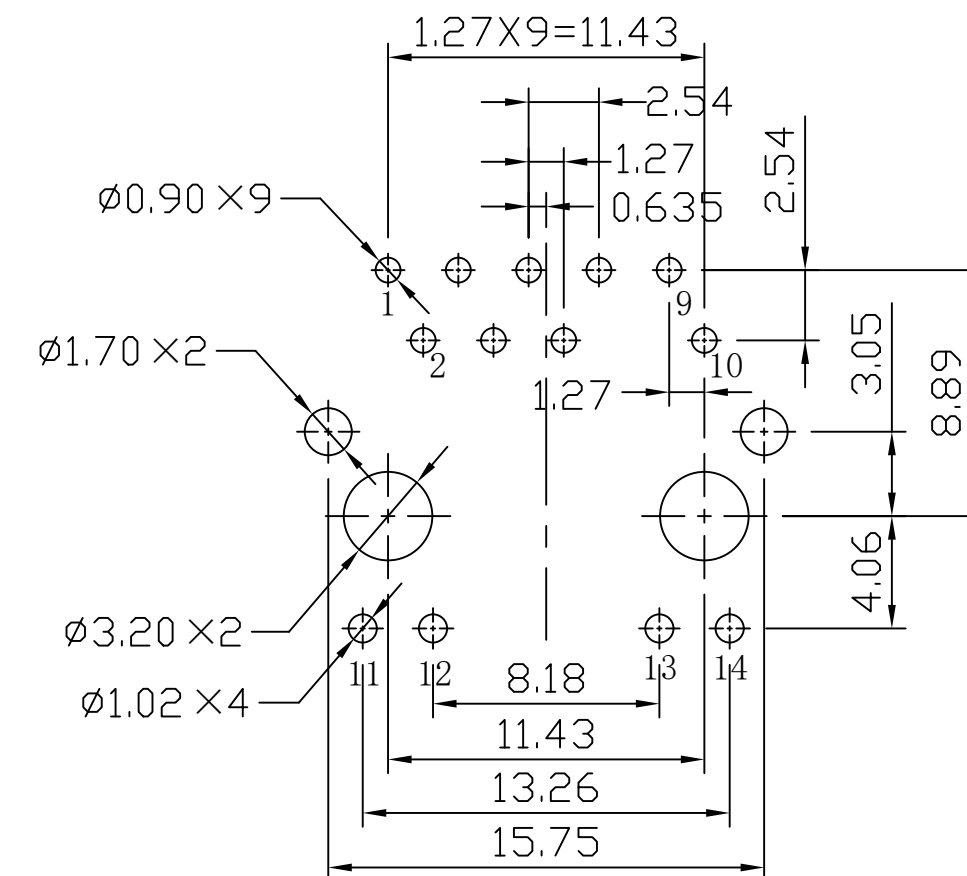
Left Side View



Bottom Side View



Top Side View



Suggested PCB Layout (Top View)

NOTES:

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Designed for PoE, IEEE802.3af applications
3. Power on used or unused pairs for up to 350mADC.
4. 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 304-1/2H Thickness=0.2mm
Contact plating: Gold 6 micro-inches min. In contact area.
5. Wave solder tip temperature: 250°C, 5 Sec.
6. UL Certification: File Number E484635.

X:X ±0.30	APPD: TOM	LINK-PP INT'L TECHNOLOGY CO., LIMITED		
X:XX ±0.25	CHKD: JAMES			
X:XXX ±0.05	DR: LEO	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE Application		
ANGLES ±1°	UNIT: mm	PART NO.: LPJ0284GDNLV		
	SCALE: 2/1	SHEET: 2/2	REV: A	DWG NO.: LP14072142

