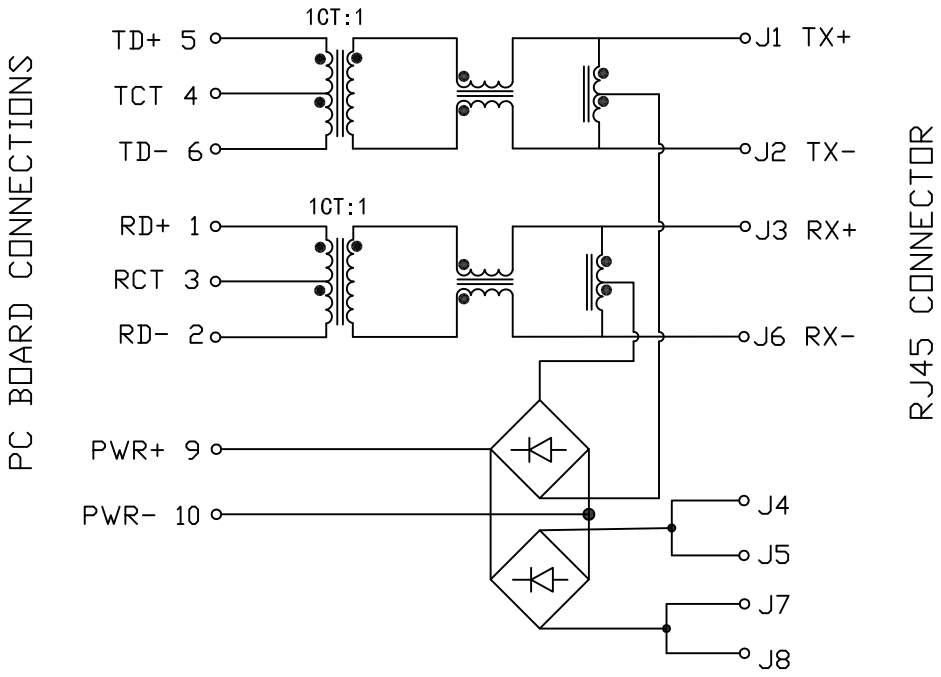
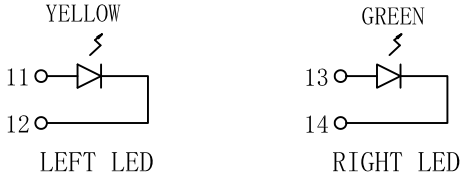
Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2010-09-25	



ELECTRICAL SPECFICATIONS @25℃

1. Turn Ratio:
   (P5-P6) : (J1-J2) = 1 : 1 ±2%
   (P1-P2) : (J3-J6) = 1 : 1 ±2%
2. Inductance :
   J1-J2 : 350uH MIN @100KHz, 100mVAC, 8mADC, LP
   J3-J6 : 350uH MIN @100KHz, 100mVAC, 8mADC, LP
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 to Mode Rejection:
   -30dB MIN @1～50MHz
   -20dB MIN @50～150MHz
7. Hipot Test: 1500Vrms MIN
8. Operating Temperature Range: -40℃～+85℃.



Emitting Color	λ p(nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 μA max
YELLOW	585	1.8~2.6V	10 μA max

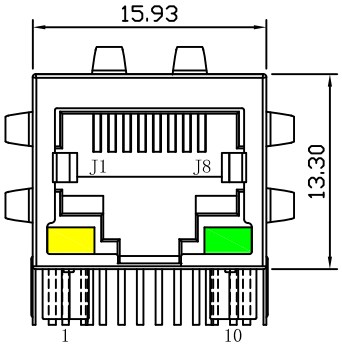
RoHS 2011/65/EU

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 ±1°	UNIT: mm	PART NO.: LPJ4049GDNL	
	SCALE: 2/1	SHEET: 1/2	REV: A DWG NO.: LP10092516

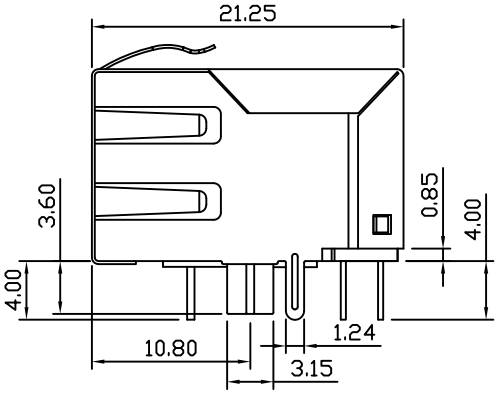
LINK-PP Website: http://www.link-pp.com Email: info@link-pp.com Tel: +86-0752-3322916 Fax: +86-0752-3161926

Mechanical:

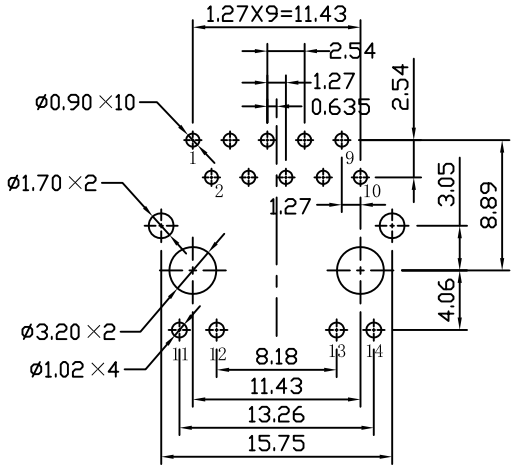
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2010-09-25	



Front Side View



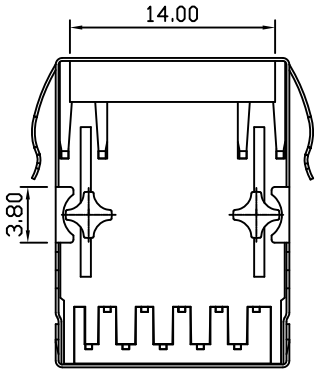
Left Side View



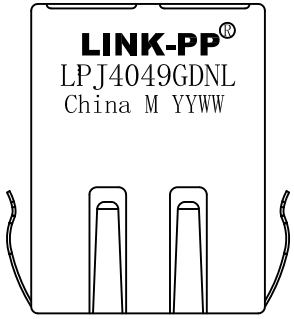
Suggested PCB Layout(Top View)

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 201-1/2H Thickness=0.2mm
   Contact plating: Gold 6 micro-inches min. In contact area.
5. Wave solder tip temperature: 265℃ Max, 5 Sec.
6. UL Certification: File Number E484635.



Bottow Side View



Top Side View

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 ±1°	UNIT: mm	PART NO.: LPJ4049GDNL	
	SCALE: 2/1	SHEET: 2/2	REV: A / DWG NO.: LP10092516

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