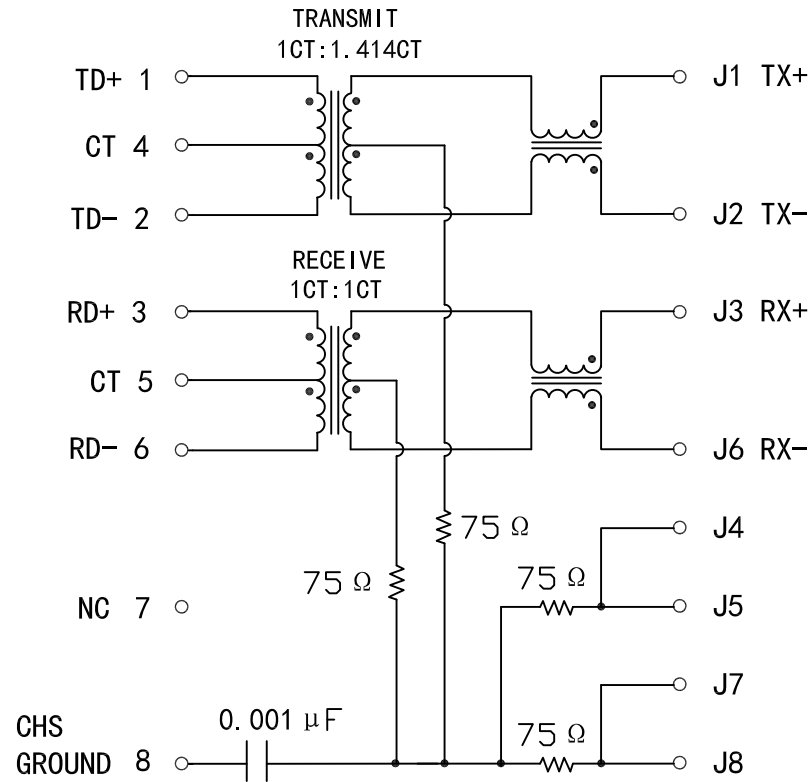


# Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2009/11/23	

PC BOARD CONNECTIONS

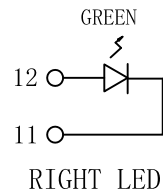
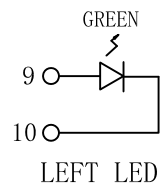


RJ45 CONNECTOR

## Electrical Specifications @25°C

- Turns Ratio:  
TX=1CT : 1414CT      RX=1CT : 1CT
- OCL: 350uH Min  
@100KHz 100mVrms 8mADC Bias
- Insertion Loss:  
1~65MHz: -1.0dB Max
- Return Loss(dB Min):  
1~10MHz:-20      10~30MHz:-16  
30~60MHz:-12      60~100MHz:-10
- Crosstalk(dB Min):  
1~30MHz:-40      30~60MHz:-35  
60~100MHz:-30
- Common Mode Rejection(dB Min):  
1~50MHz:-30      50~150MHz:-20
- Hipot: 1500Vrms MIN
- Operating Temperature: 0°C~70°C.

NOTE: Connect CHS GND to PCB ground.



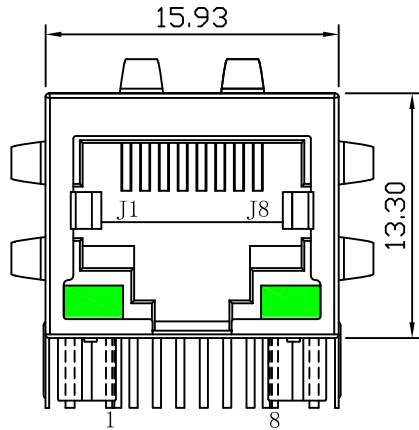
Emitting Color	$\lambda$ p(nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 $\mu$ A max



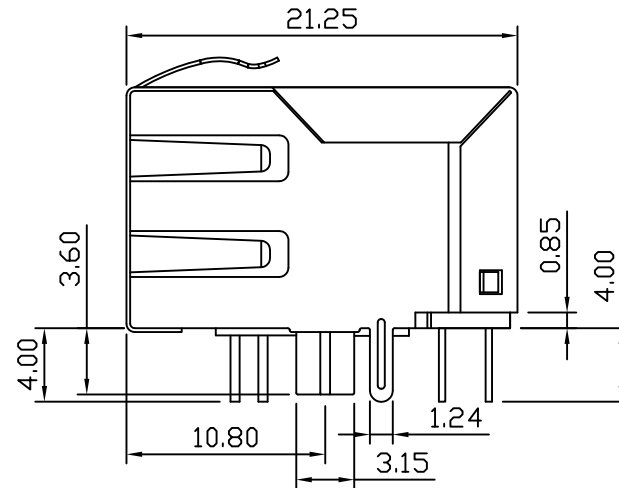
X:X	$\pm 0.30$	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX	$\pm 0.25$	CHKD:	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics	
X:XXX	$\pm 0.05$	DR: TOM	PART NO.: LPJ0018ACNL	
ANGLES	$\pm 1^\circ$	UNIT: mm	DWG NO.: LP09112312	
	SCALE: 2/1	SHEET: 1/2	REV: A	

# Mechanical:

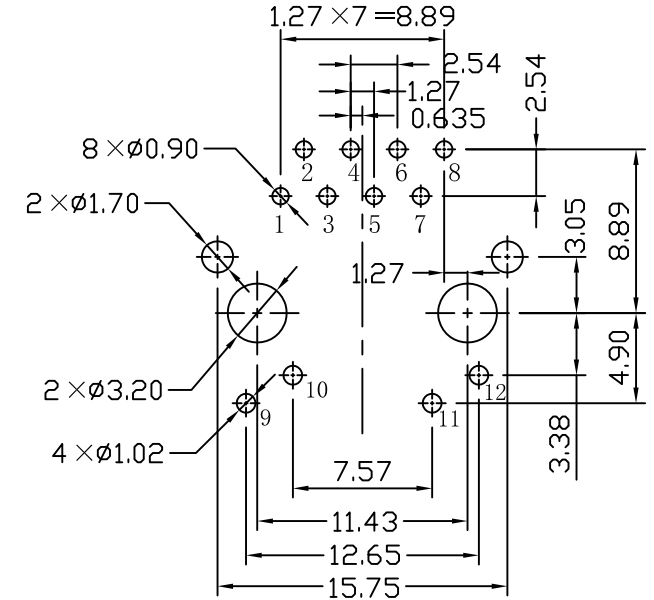
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2009/11/23	



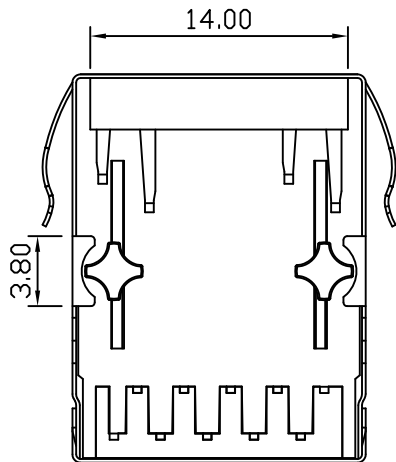
Front Side View



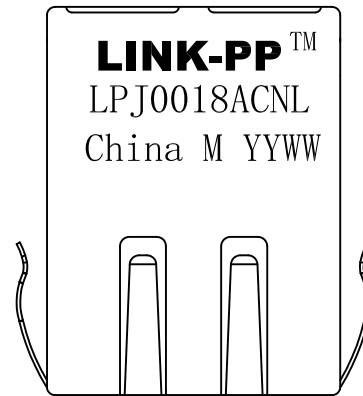
Left Side View



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 10/100 Base-T Integrated Magnetics
ANGLES ±1°	UNIT: mm	PART NO.: LPJ0018ACNL
	SCALE: 2/1	SHEET: 2/2
	REV: A	DWG NO.: LP09112312