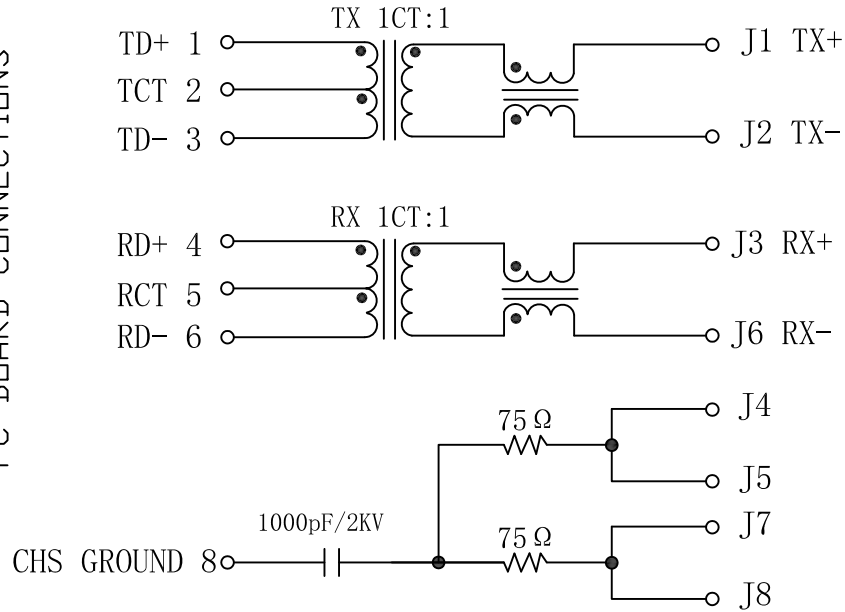


# Schematic:

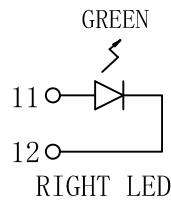
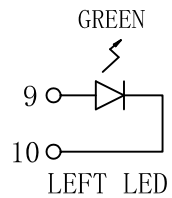
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		25/12/2007	

PC BOARD CONNECTIONS



RJ45 CONNECTOR

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



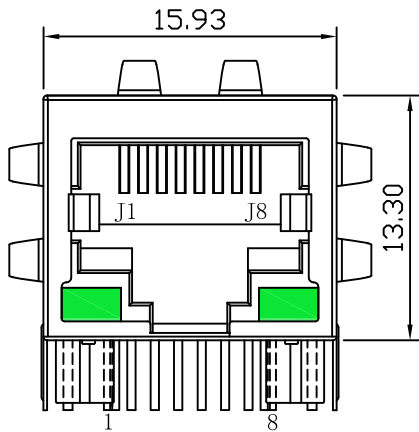
## ELECTRICAL SPECIFICATIONS @25°C

- Turn Ratio( $\pm 2\%$ ):  
TX=1CT:1                      RX=1CT:1
- Inductance OCL: 350uH MIN  
@100KHz/0.1V, 8mA DC Bias
- Insertion Loss:  
-1.0dB MAX @1-65MHz
- Return Loss(@100  $\Omega$   $\pm$  15  $\Omega$ ):  
-20dB MIN @1-10MHz  
-16dB MIN @10-30MHz  
-12dB MIN @30-60MHz  
-10dB MIN @60-80MHz
- Cross talk:  
-40dB TYP @1-30MHz  
-35dB TYP @30-60MHz  
-30dB TYP @60-100MHz
- Common Mode Rejection:  
-30dB TYP @1-50MHz  
-20dB TYP @50-150MHz
- Hipot Test: 1500Vrms MIN
- Operating Temperature Range: 0°C TO 70°C.

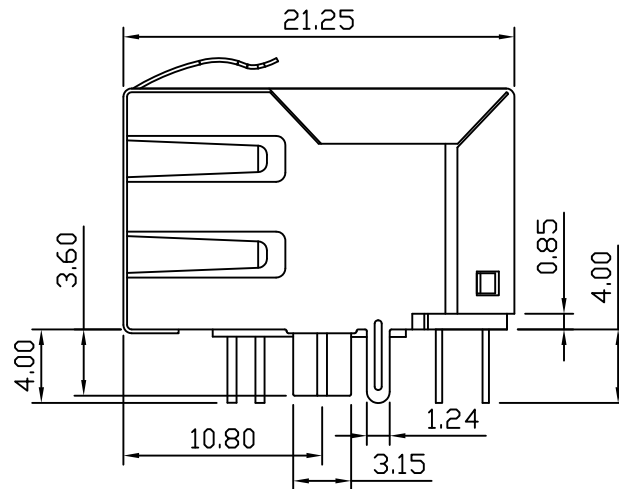
X:X	$\pm 0.30$	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX	$\pm 0.25$	CHKD:	TITLE: RJ45 Connector 10/100 Base-TX With Integrated Magnetics	
X:XXX	$\pm 0.05$	DR: TOM		
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO.: LPJ0048AFNL	
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO.: LP07122535

# Mechanical:

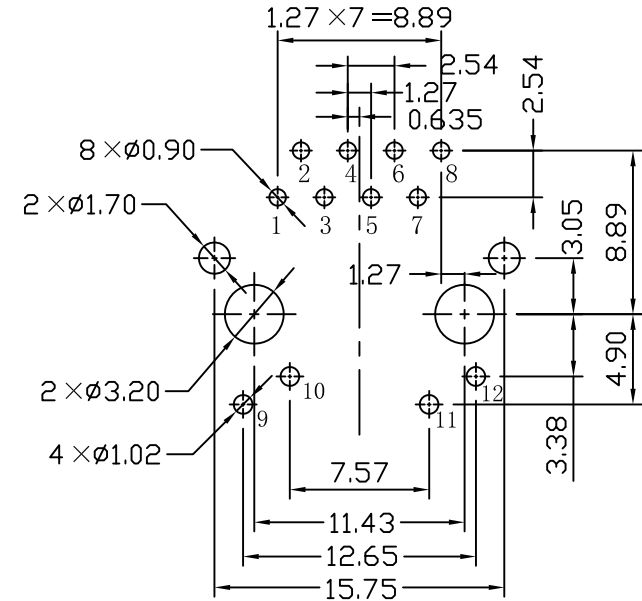
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		25/12/2007	



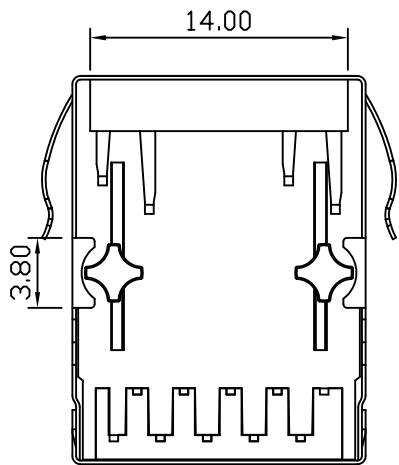
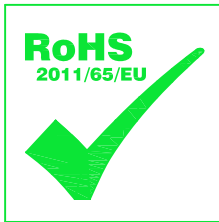
Front Side View



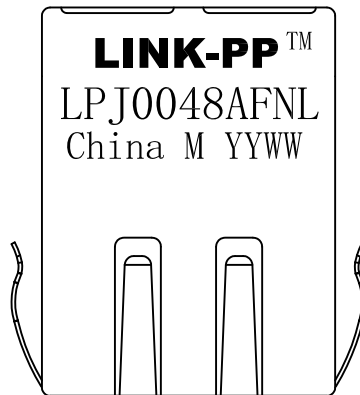
Left Side View



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 Max.
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 10/100 Base-TX With Integrated Magnetics
ANGLES ±1°	UNIT: mm	PART NO.: LPJ0048AFNL
	SCALE: 2/1	SHEET: 2/2
	REV: A	DWG NO.: LP07122535