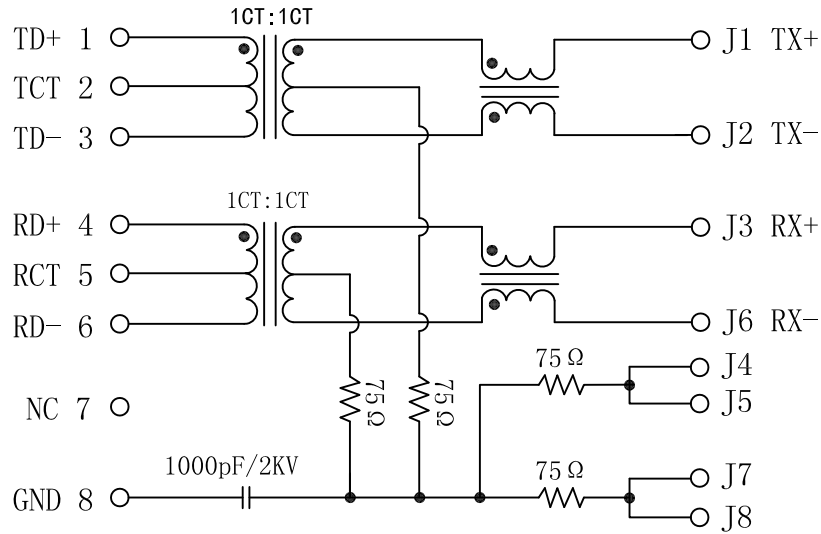


Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2008-07-08	

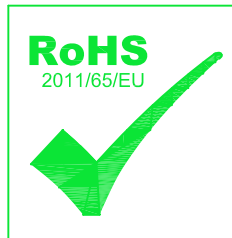
PC BOARD CONNECTIONS



RJ45 CONNECTOR

Electrical Specification @25°C

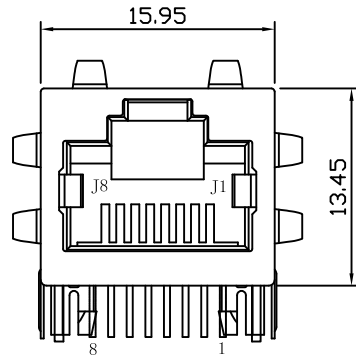
- Turns Ratio ( $\pm 2\%$ ):  
TX=1CT : 1CT                      RX=1CT : 1CT
- Inductance OCL: 350uH Min  
@100KHz, 100mVrms, 8mA DC bias current
- Insertion Loss:  
0.3-100MHz:-1.2dB Max
- Return Loss(dB Min, @100Ω):  
1-30MHz:-16                      40MHz:-14  
50MHz:-13                      60-80MHz:-10
- Crosstalk(dB Min):  
30MHz:-40                      60MHz:-36  
100MHz:-30
- Common Mode Rejection(dB Min):  
30MHz:-35                      60MHz:-32  
100MHz:-30
- Isolation Voltage: 1500Vrms
- Operating Temperature: 0°C~70°C.



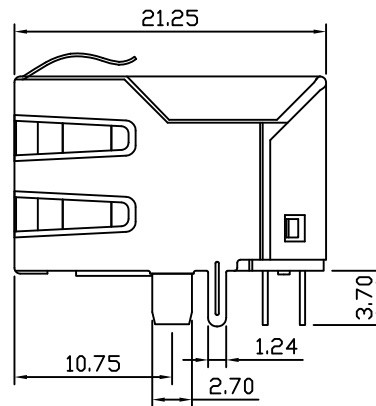
X:X	$\pm 0.30$	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX	$\pm 0.25$	CHKD:	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics	
X:XXX	$\pm 0.05$	DR: TOM		
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO.: LPJ16212CNL	
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO.: LP08070813

# Mechanical:

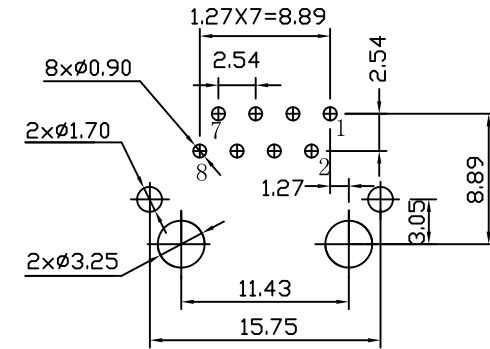
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2008-07-08	



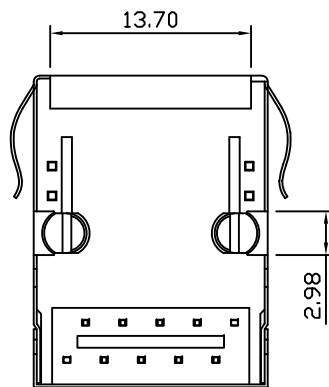
Front Side View



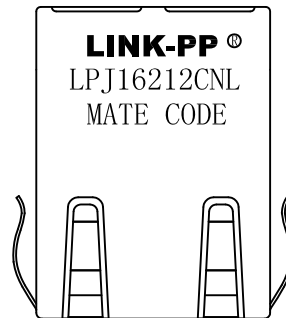
Left Side View



Suggested PCB Layout (Top View)



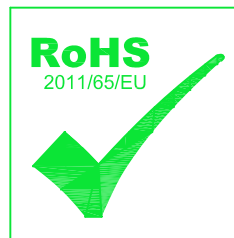
Bottom Side View



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  
 Wave solder tip temperature time: 5 Sec Max



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	
X:XXX	±0.05	DR: TOM	PART NO.: LPJ16212CNL	
ANGLES	±1°	UNIT: mm	REV: A	DWG NO.: LP08070813
SCALE: 2/1		SHEET: 2/2		