

Schematic:

PC BOARD CONNECTIONS

1CT:1CT
TRANSMIT

TD+ 1

CT 4

TD- 2

1CT:1CT
RECEIVE

RD+ 3

CT 5

RD- 6

NC 7

GND 8

75Ω

75Ω

75Ω

75Ω

1000pF/2KV

J1 TX+

J2 TX-

J3 RX+

J6 RX-

J4

J5

J7

J8

RJ45 CONNECTOR

ELECTRICAL SPECIFICATIONS @25℃

1. Turn Ratio(±2%) :
TX=1CT:1CT RX=1CT:1CT

2. Inductance OCL: 350uH MIN
@100KHz/0.1V, 8mA DC Bias

3. Insertion Loss:
-1.0dB MAX @1~65MHz

4. Return Loss:
-20dB 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 Mode Rejection:
-30dB MIN @1~50MHz
-20dB MIN @50~150MHz

7. Isolation PHY SIDE To Line SIDE : 1500Vrms.

8. Operating Temperature: 0℃~+70℃.

RoHS

2011/65/EU

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		
ANGLES ±1°		UNIT:	mm	PART NO.: LPJ0011DNL	
		SCALE:	2/1	SHEET:	1/2
		REV:	A6	DWG NO.:	LP10032050

LINK-PP

Website: <http://www.link-pp.com>

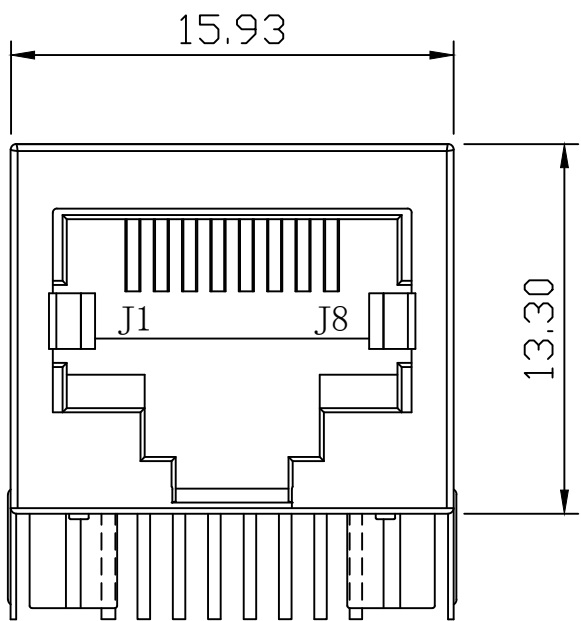
Email: info@link-pp.com

Tel: +86-0752-3322916

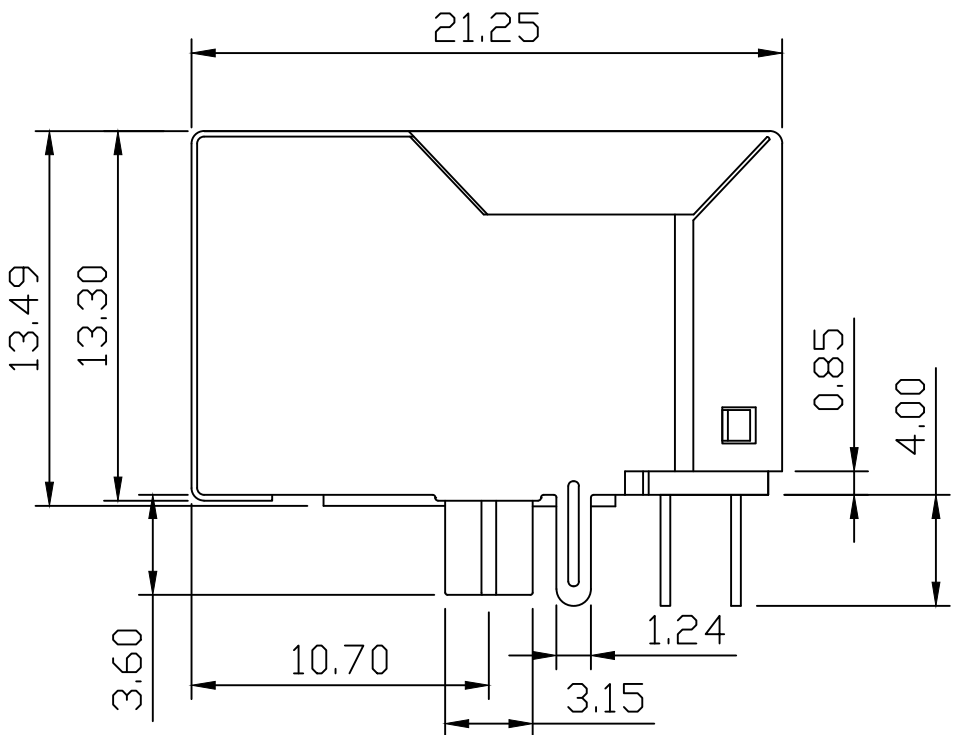
Fax: +86-0752-3161926

Mechanical:

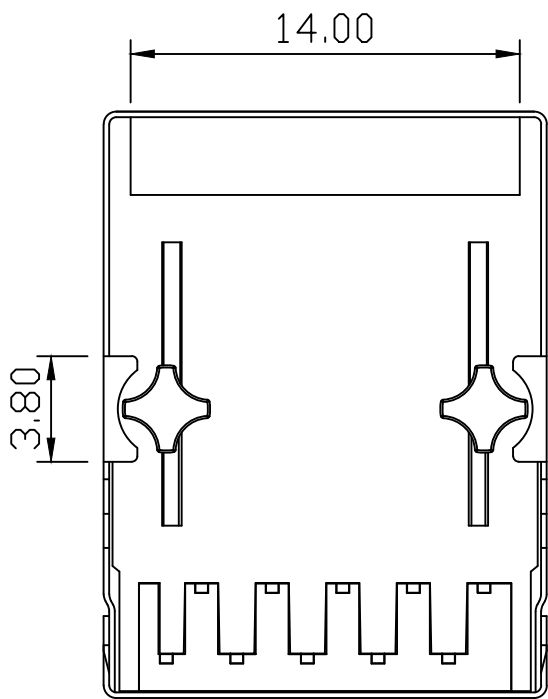
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2010-03-20	



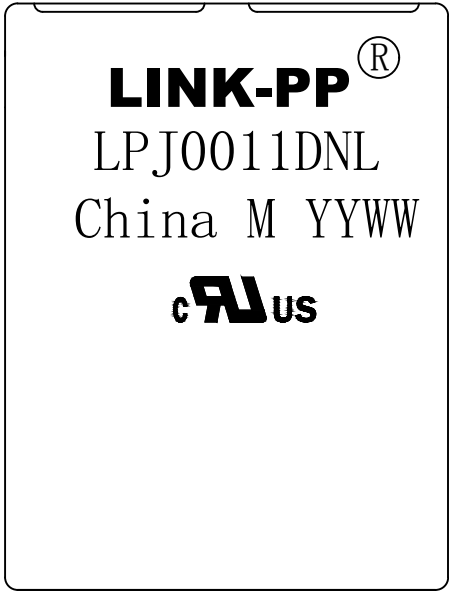
Front Side View



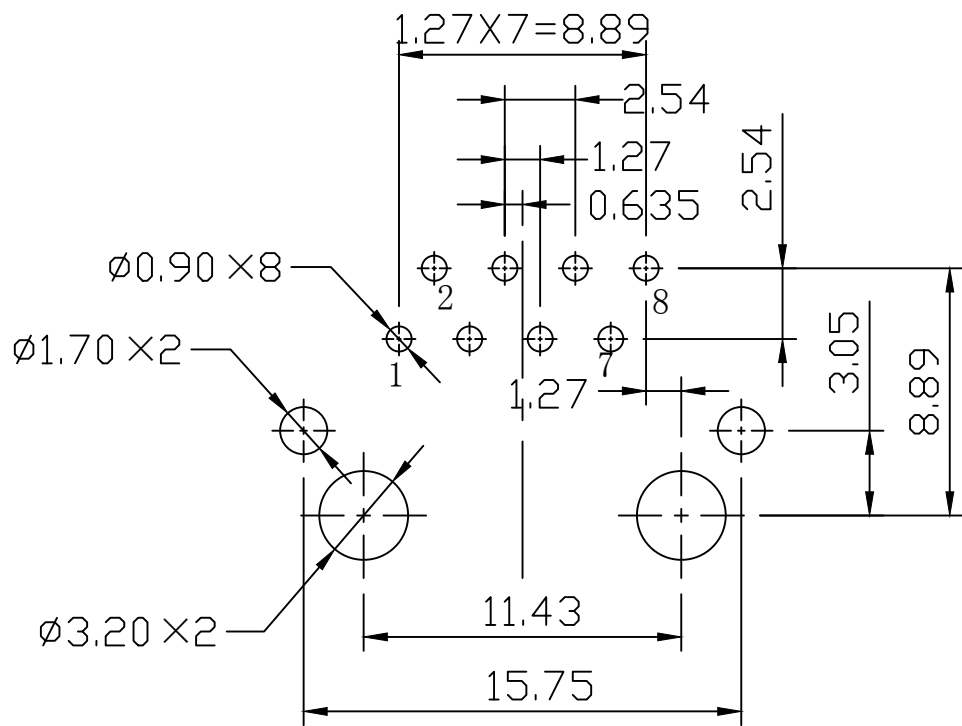
Left Side View



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. 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 304-1/2H Thickness=0.2mm
Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 250°C, 5 Sec.
5. 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		
ANGLES ±1°	UNIT: mm	PART NO.: LPJ0011DNL		
	SCALE: 2/1	SHEET: 2/2	REV: A6	DWG NO.: LP10032050

