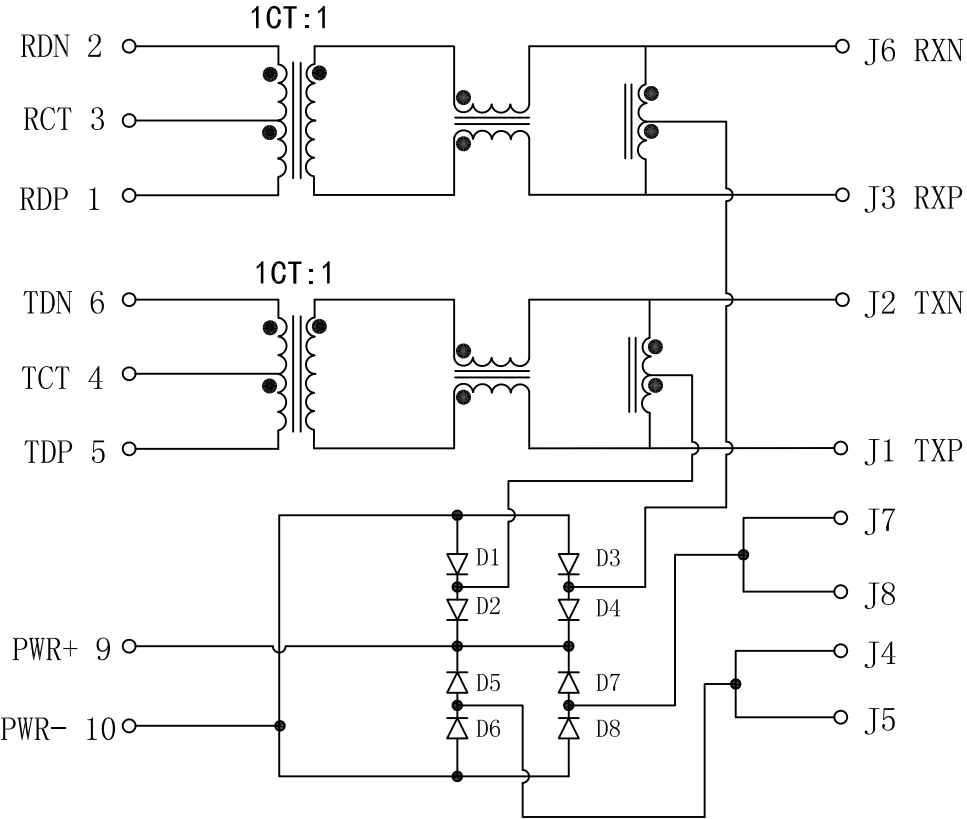


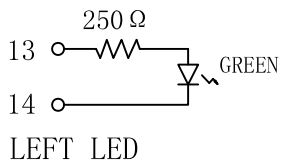
Schematic:

PC BOARD CONNECTIONS

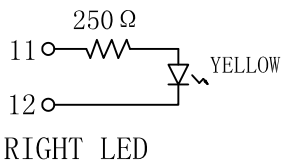


RJ45 CONNECTOR

- Electrical Specifications @25°C
- 1. Turns Ratio ($\pm 2\%$) :
TX=1CT:1 RX=1CT:1
 - 2. Inductance OCL: 350uH Min
@100KHz, 0.1Vrms, 8mADC Bias
 - 3. Insertion Loss:
0.5-100MHz:-1.1dB Max
 - 4. Return Loss(dB Min) :
1-30MHz:-18; 40MHz:-16
50MHz:-14; 60-80MHz:-12
 - 5. Crosstalk(dB Min) :
0.3-80MHz:-30
 - 6. Isolation Voltage: 1500Vrms
 - 7. Operating Temperature: 0°C~70°C.



LED POLARITY		COLOR
PIN 13	PIN 14	
+	-	GREEN



LED POLARITY		COLOR
PIN 11	PIN 12	
+	-	YELLOW

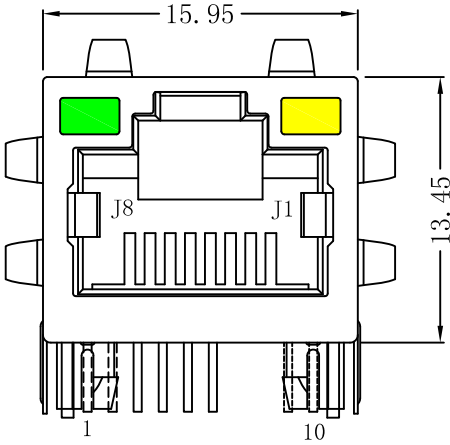


Emitting Color	λ p(nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max

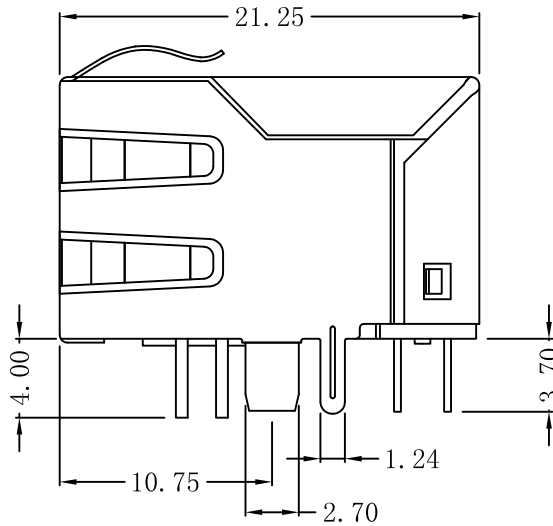
X:X	± 0.30	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX	± 0.25	CHKD:		
X:XXX	± 0.05	DR: TOM	TITLE: RJ45 Connector With 10 /100 Base-TX Integrated Magnetic TAB-UP For PoE Application	
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO. : LPJ16249A28NL	
		SCALE: 2/1	SHEET: 1/2	REV: A DWG NO: LP09100811

Mechanical:

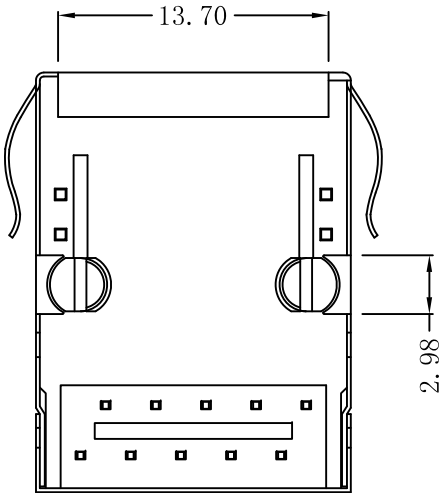
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		08/10/2009	



Front Side View



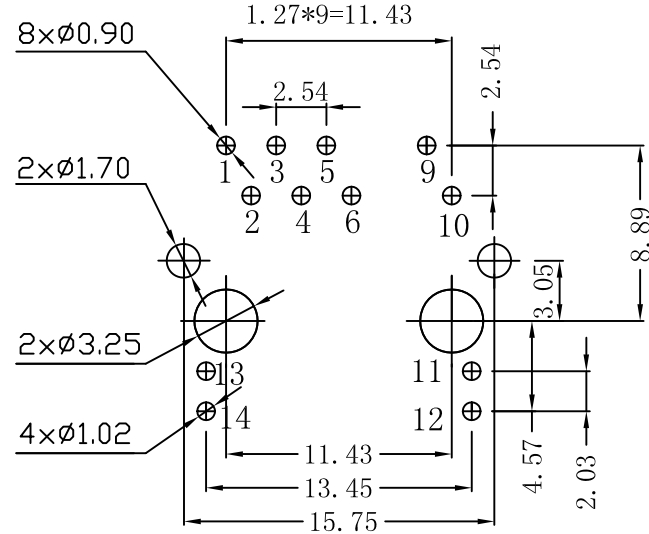
Left Side View



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. 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°C Max, 5 Sec Max.

X:X	±0.30	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED			
X:XX	±0.25	CHKD:				
X:XXX	±0.05	DR: TOM				
ANGLES	±1°	UNIT: mm	PART NO.: LPJ16249A28NL			
	SCALE: 2/1	SHEET: 2/2	REV: A	DWG NO: LP09100811		