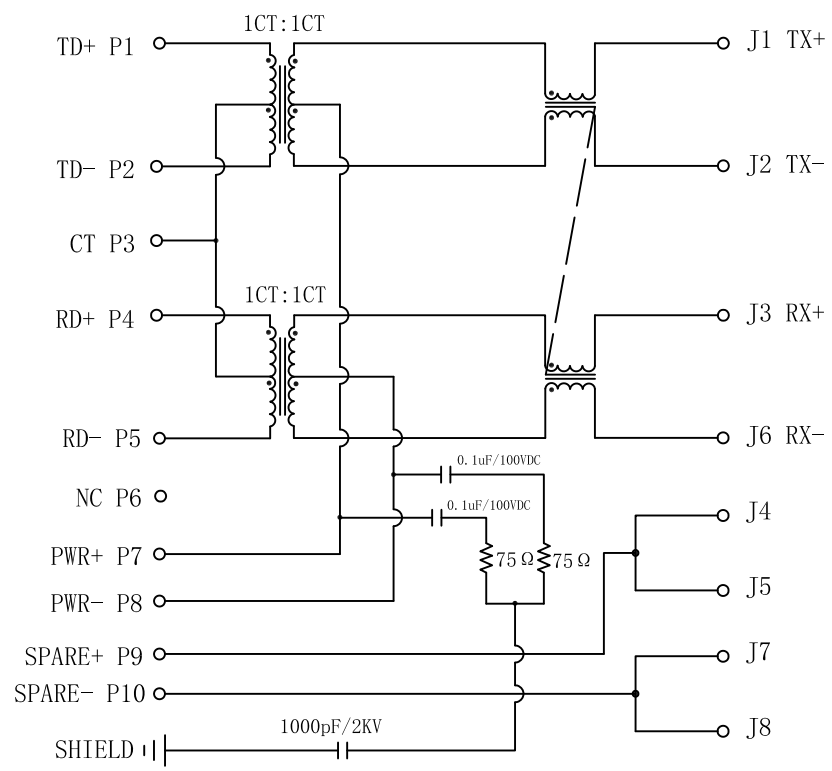


Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2015/07/20	

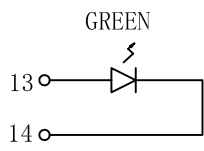
PC BOARD CONNECTIONS



RJ45 CONNECTOR

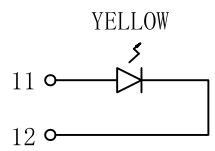
Electrical Specifications @25°C

- Turns Ratio ($\pm 2\%$) :
TX=1CT : 1CT RX=1CT : 1CT
- Inductance OCL: 350uH Min
@100KHz, 0.1Vrms, 8mADC Bias
- Insertion Loss:
0.1-100MHz:-1.2dB Max
- Return Loss(dB Min):
1-30MHz:-16; 40MHz:-14
50MHz:-13; 60-80MHz:-12
- Crosstalk:
0.1-100MHz:-33dB Min
- CMRR(dB Min):
32MHz:-42; 62MHz:-37
100MHz:-33;
- Balanced DC Line Current Capability
(J1, J2-7) & (J3, J6-8) & (J4, J5-9) & (J7, J8-10):
350mADC Max.
- Isolation Voltage: 1500Vrms
- Operating Temperature: 0°C ~ 70°C.



LEFT LED

LED POLARITY		COLOR
PIN 13	PIN 14	
+	-	GREEN



RIGHT LED

LED POLARITY		COLOR
PIN 11	PIN 12	
+	-	YELLOW

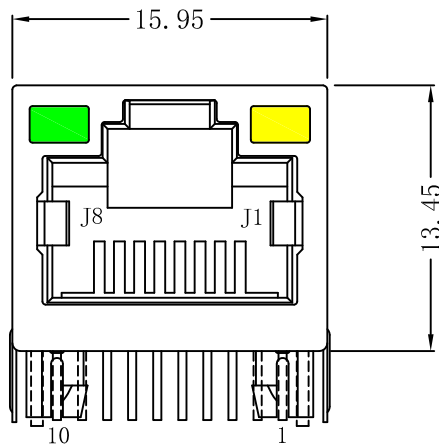


Emitting Color	λ p(nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max

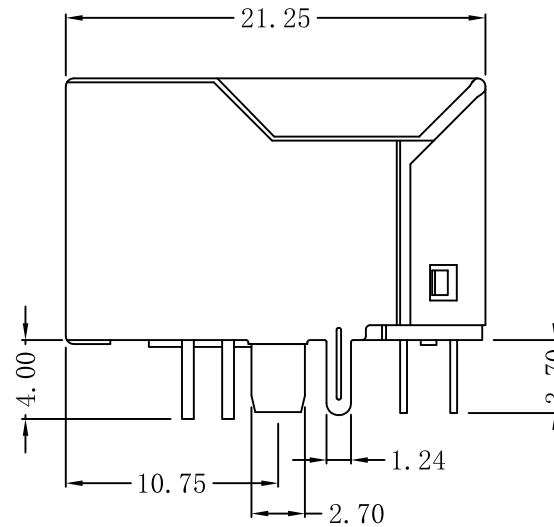
X:X	± 0.30	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED
X:XX	± 0.25	CHKD:	
X:XXX	± 0.05	DR: TOM	TITLE: RJ45 Connector With 10 /100 Base-TX Integrated Magnetic TAB-UP For PoE Application
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO. : LPJ16240BENL
	SCALE: 2/1	SHEET: 1/2	REV: A DWG NO: LP15072017

Mechanical :

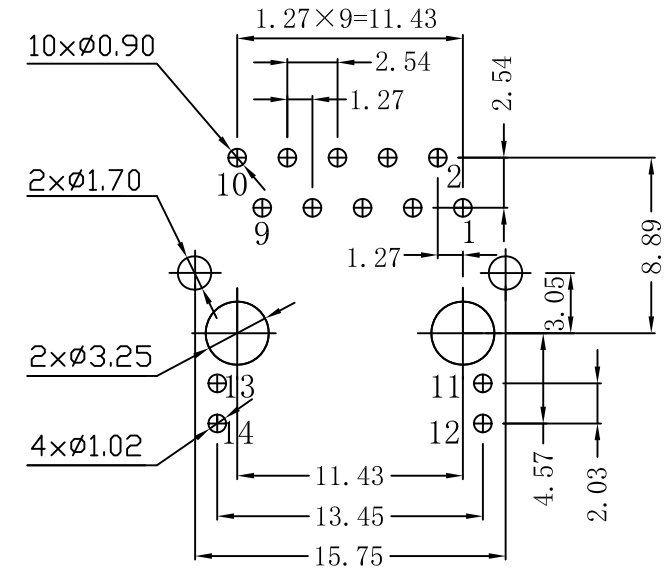
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2015/07/20	



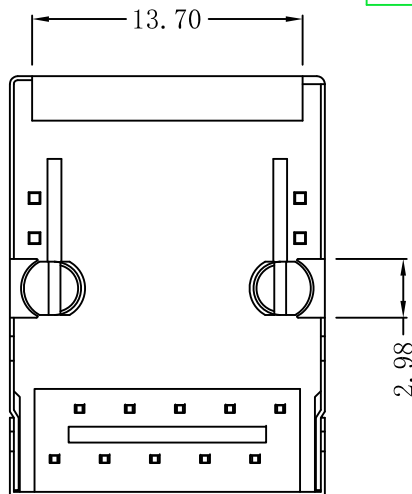
Front Side View



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 802.3af 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.

X:X	±0.30	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX	±0.25	CHKD:	TITLE: RJ45 Connector With 10 /100 Base-TX Integrated Magnetic TAB-UP For PoE Application	
X:XXX	±0.05	DR: TOM	PART NO. : LPJ16240BENL	
ANGLES	±1°	UNIT: mm		
	SCALE: 2/1	SHEET: 2/2	REV: A	DWG NO: LP15072017