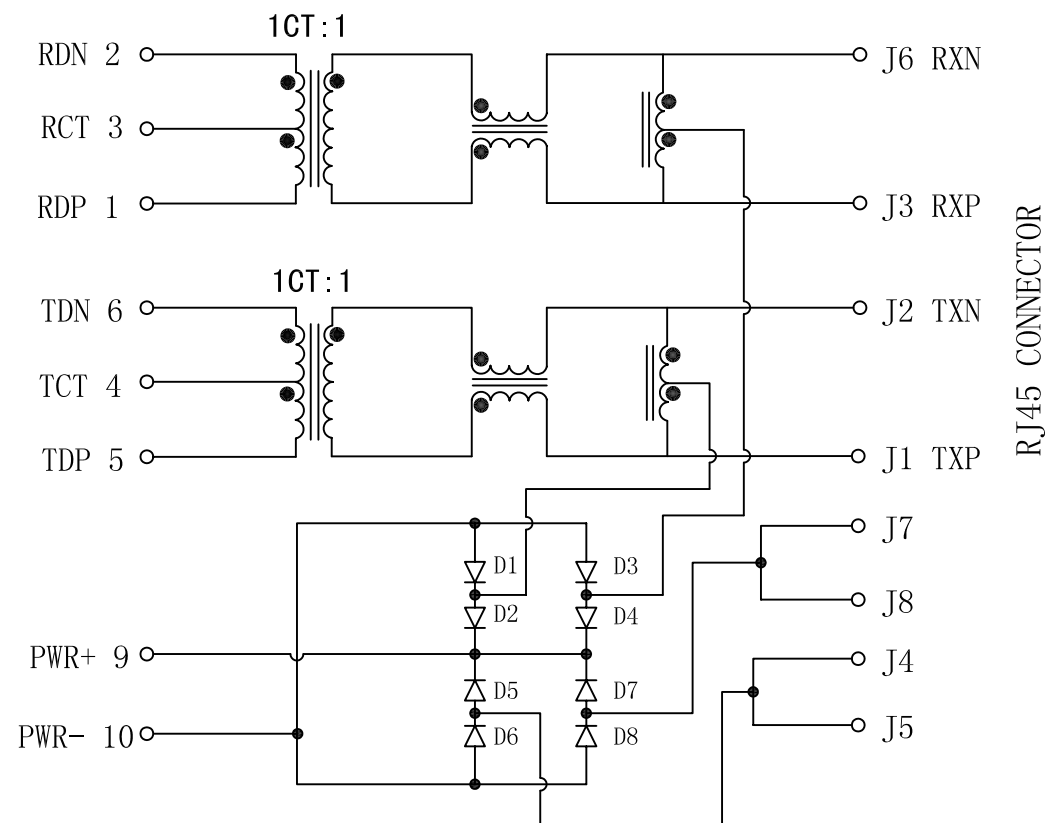
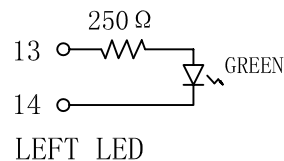


Schematic:

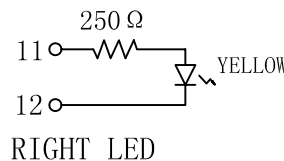
PC BOARD CONNECTIONS



RJ45 CONNECTOR



LED POLARITY		COLOR
PIN 13	PIN 14	
+	-	GREEN



LED POLARITY		COLOR
PIN 11	PIN 12	
+	-	YELLOW



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

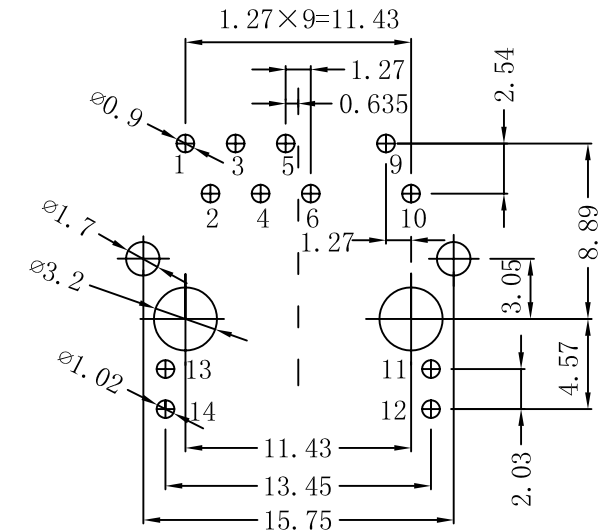
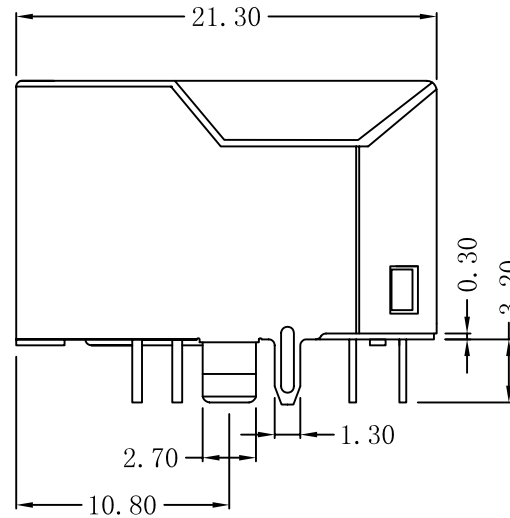
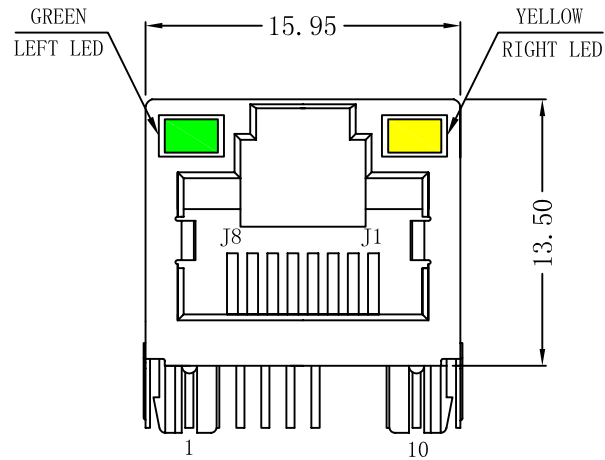
Electrical Specifications @25°C

- IMPEDANCE: 100 OHMS
- Turns Ratio ($\pm 2\%$):
TX=1CT : 1 RX=1CT : 1
 - Inductance OCL: 350uH min
@100KHz, 0.1Vrms, 8mADC Bias
 - Insertion Loss:
0.5-100MHz:-1.1dB Max
 - Return Loss(dB Min):
1-30MHz:-18; 40MHz:-16
50MHz:-14; 60-80MHz:-12
 - Crosstalk(dB Min):
0.3-80MHz:-30
 - Common Mode Rejection Ratio(CMRR):
0.5-100MHz:-30dB Min
 - Isolation Voltage: 1500Vrms
 - PoE current 350mADC MAX
 - Rectifier Diode Spec:
Forward Voltage, $V_F=1.0V$ Max @ $I_F=1A$
Forward Current, $I_F=1A$
Reverse Voltage, $V_R=80V$ Max
 - Operating Temperature: 0°C ~ 70°C.

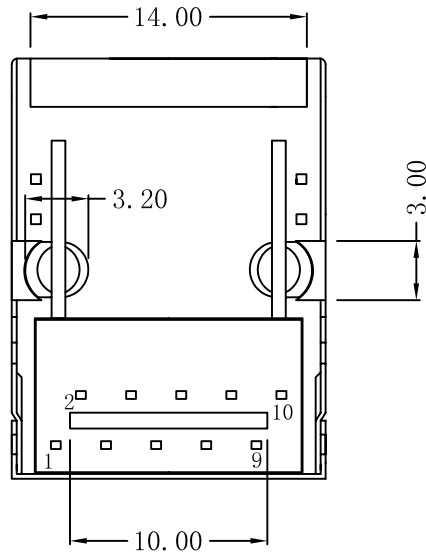
- LEDS WITH BUILT-IN RESISTOR
- LEDS ARE DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA.
- LED COLOR:
DOMINANT WAVELENGTH(λ_D): GREEN 568 nm TYP @ $V_F=5V$
FORWARO CURRENT(I_F): GREEN 12mA TYP @ $V_F=5V$
DOMINANT WAVELENGTH(λ_D): YELLOW 588 nm TYP @ $V_F=5V$
FORWARO CURRENT(I_F): YELLOW 13mA TYP @ $V_F=5V$

X:X	± 0.20	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX	± 0.10	CHKD:		
X:XXX	± 0.05	DR: TOM	TITLE: RJ45 Connector With 10 /100 Base-TX Integrated Magnetic For PoE Application	
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO.: LPJ16249B28NL	
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO: LP09100823

Mechanical:



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 UL94V-0
Contact/Shield: Copper alloy
Shield plating: Nickel
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	±0.20	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX	±0.10	CHKD:	TITLE: RJ45 Connector With 10 /100 Base-TX Integrated Magnetic For PoE Application	
X:XXX	±0.05	DR: TOM	PART NO.: LPJ16249B28NL	
ANGLES	±1°	UNIT: mm	DWG NO: LP09100823	
SCALE: 2/1		SHEET: 2/2	REV: A	