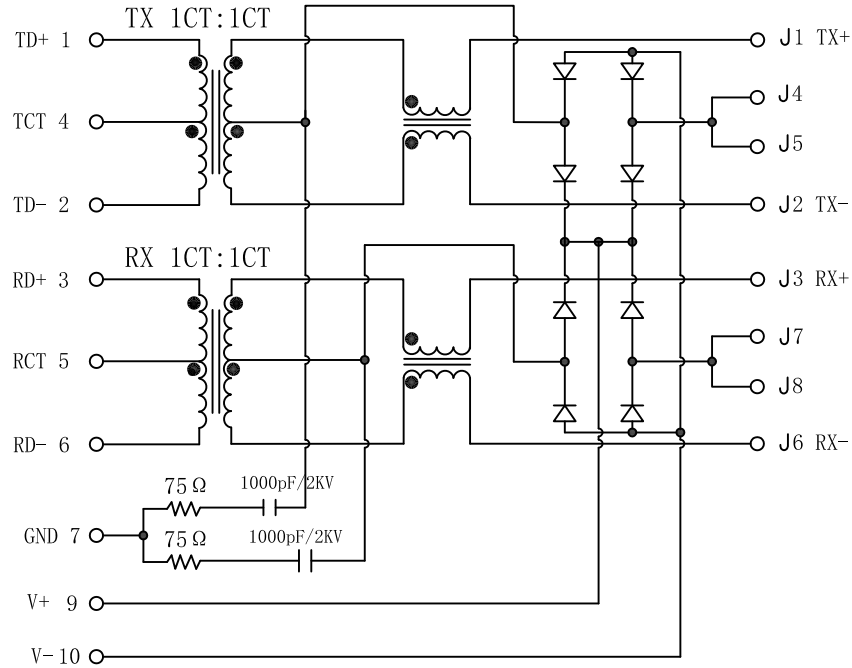


# Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2014-10-25	

PCB CONNECTIONS

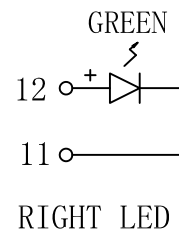
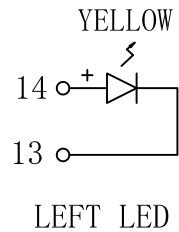


RJ45 CONNECTOR

## ELECTRICAL SPECIFICATIONS@25°C

- Turn Ratio ( $\pm 3\%$ ):  
TX=1CT:1CT      RX=1CT:1CT
- Inductance OCL: 350uH MIN  
@100KHz/0.1V, 8mA DC Bias
- Insertion Loss:  
-1.0dB MAX @ 0.3-100MHz
- Return Loss:  
-20dB MIN @ 1-30MHz  
-15dB MIN @ 30-60MHz  
-10dB MIN @ 60-80MHz
- Cross talk:  
-30dB MIN @ 1-100MHz
- Common Mode Rejection:  
-30dB MIN @ 1-100MHz
- Hipot Test: 1500Vrms/1mA/2Sec
- Operating Temperature Range: 0°C TO 70°C.

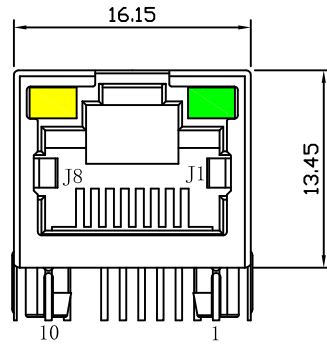
Emitting Color	$\lambda$ p(nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 $\mu$ A max
YELLOW	585	1.8~2.6V	10 $\mu$ A max



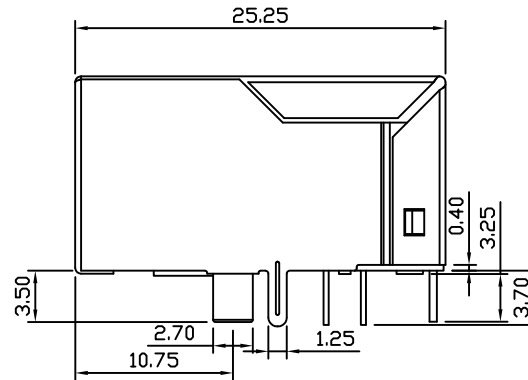
X:X	$\pm 0.30$	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X:XX	$\pm 0.25$	CHKD:	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE Application	
X:XXX	$\pm 0.05$	DR: TOM	PART NO.: LPJ1149BGNL	
ANGLES	$\pm 1^\circ$	UNIT: mm		
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO.: LP14110421

# Mechanical:

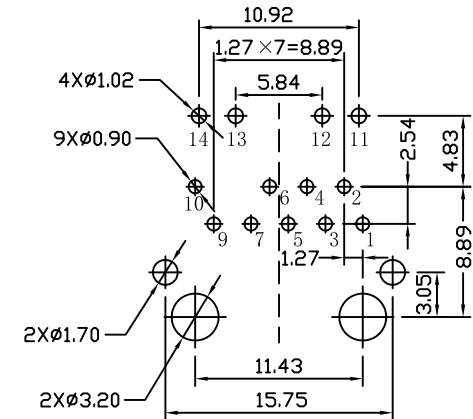
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2014-10-25	



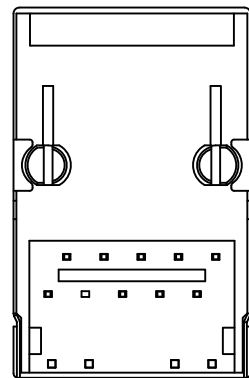
Front Side View



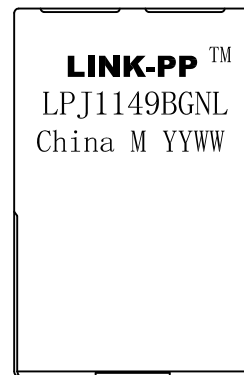
Left Side View



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:			
X:XXX ±0.05	DR: TOM	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE Application		
ANGLES ±1°	UNIT: mm	PART NO.: LPJ1149BGNL		
	SCALE: 2/1	SHEET: 2/2	REV: A	DWG NO.: LP14110421