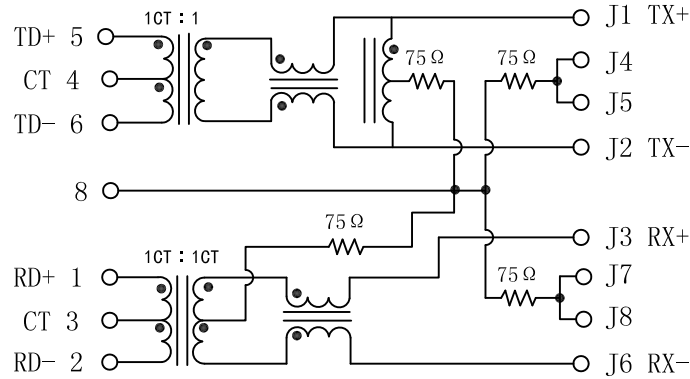


# Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2010-12-04	

PCB CONNECTIONS

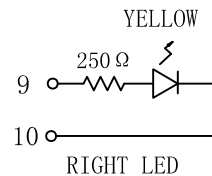
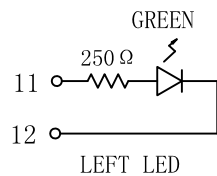


RJ45 CONNECTOR

Electrical Specifications: @25°C

- Turns Ratio ( $\pm 2\%$ ):  
TX=1CT:1      RX=1CT:1CT
- Primary Inductance (1-2, 5-6):  
350uH min @100KHz, 0.1Vrms, 8mA DC bias
- Insertion Loss:  
0.5-100MHz: -1.1dB Max
- Return Loss (dB Min):  
0.5-30MHz: -18  
30.1-60MHz: -18-20LOG(f/30)  
60.1-80MHz: -12
- Crosstalk (dB Min):  
0.5-40MHz: -35  
40.1-100MHz: -33-20LOG(f/50)
- Common Mode Rejection Ratio:  
0.5-100MHz: -30dB Min
- Hipot Test: 1500Vrms
- Operating Temperature: 0~70°C.

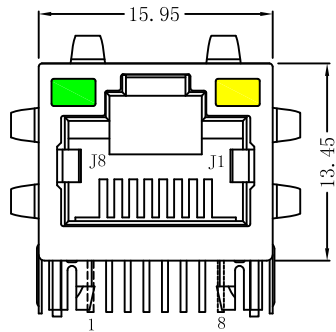
Emitting Color	$\lambda_p$ (nm)	V <sub>F@I<sub>F</sub></sub> =20mA	I <sub>R @V<sub>R</sub></sub> =5V
GREEN	565	1.8~2.6V	10 $\mu$ A max
YELLOW	585	1.8~2.6V	10 $\mu$ A max



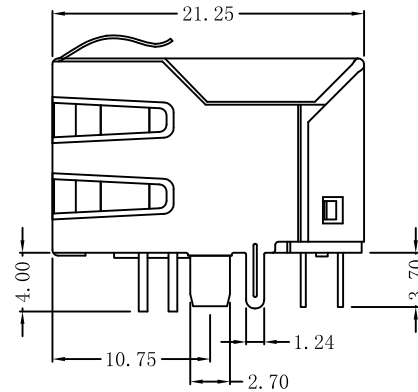
X:X	$\pm 0.30$	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED
X:XX	$\pm 0.25$	CHKD:	
X:XXX	$\pm 0.05$	DR: SEA	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics TAB-UP
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO.: LPJ16218A28NL
	SCALE: 2/1	SHEET: 1/2	REV: A
			DWG NO.: LP10120403

# Mechanical:

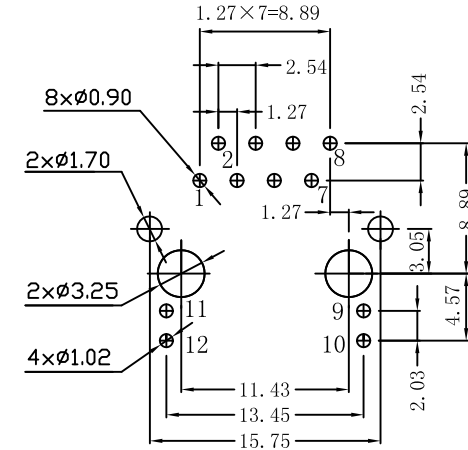
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2010-12-04	



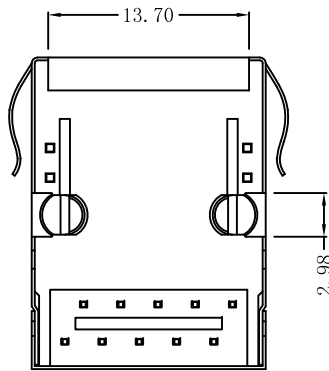
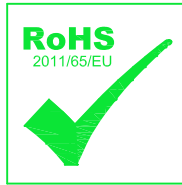
Front Side View



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 802.3 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 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.
5. UL Certification: File Number E484635.

X:X ±0.30	APPD:	LINK-PP INT'L TECHNOLOGY CO., LIMITED
X:XX ±0.25	CHKD:	
X:XXX ±0.05	DR: SEA	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics TAB-UP
ANGLES ±1°	UNIT: mm	PART NO.: LPJ16218A28NL
	SCALE: 2/1	SHEET: 2/2
	REV: A	DWG NO.: LP10120403