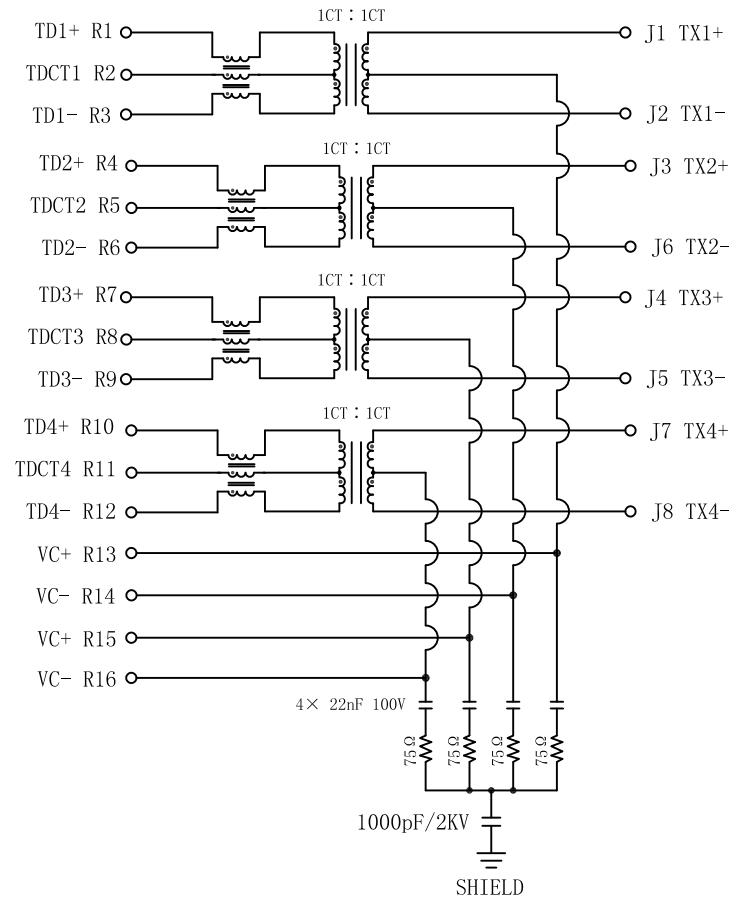


Schematic :

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2022-08-31	

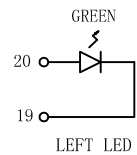
PC BOARD CONNECTIONS



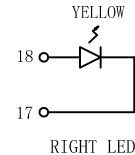
RJ45 CONNECTOR

Electrical Specifications @25°C

- Turns Ratio ($\pm 2\%$):
Pri:Sec = 1CT:1CT
- Inductance: 350uH Min
@100KHz, 0.1V, 18mA DC Bias.
- Insertion Loss:
1-100MHz: -1.0dB Max
- Return Loss (load 100Ω):
1-30MHz: -18dB Min
30-60MHz: -16dB Min
60-80MHz: -12dB Min
80-100MHz: -10dB Min
- Crosstalk:
1-100MHz: -30dB Min
- Common Mode Rejection:
1-100MHz: -30dB Min
- Balanced DC Line Current:
720mA Max @57VDC CONTINUOUS
1.2A Max @57VDC For 200 Miliseconds
- Hipot: 1500Vrms Min @60Hz
- Operating Temperature: -40°C ~ +85°C.



LED POLARITY			COLOR
PIN 20	PIN 19		
+	-		GREEN



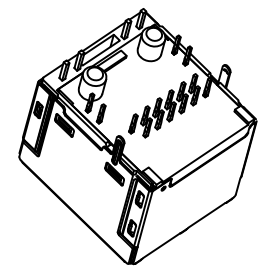
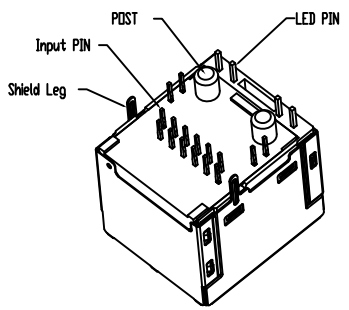
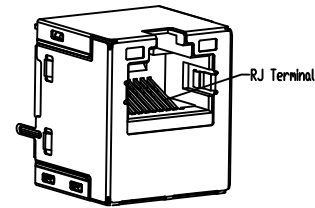
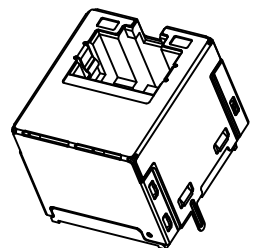
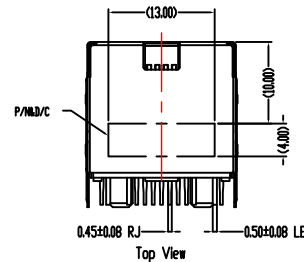
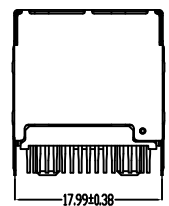
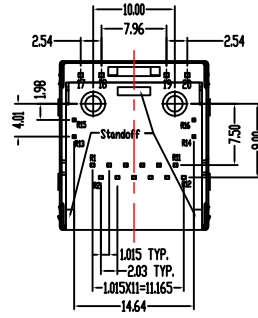
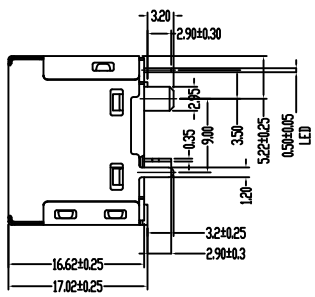
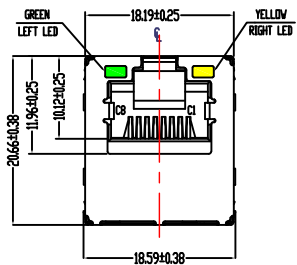
LED POLARITY			COLOR
PIN 18	PIN 17		
+	-		YELLOW



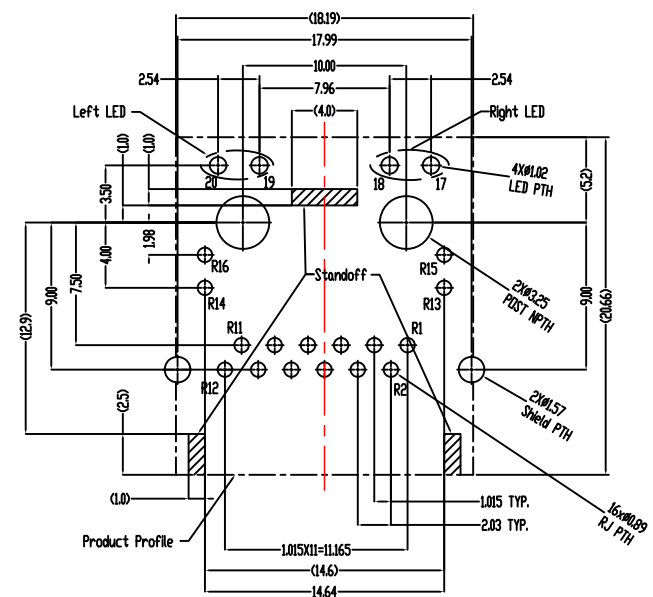
Emitting Color	λ_p (nm)	V _F @I _F =20mA	I _R @V _R =5V
GREEN	565	1.8~2.6V	10 μA max
YELLOW	585	1.8~2.6V	10 μA max

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 1000 Base-T Integrated Magnetics For PoE+ Application
ANGLES ±1°	UNIT: mm	PART NO.: LPJDP4500BHNL
	SCALE: 2/1	SHEET: 1/2
	REV: A	DWG NO.: LP22083107

Mechanical :



REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2022-08-31	



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 802.3at specification
3. Connector Materials:
 Housing Material: Thermoplastic PA6T UL94V-0
 Contact Material: Phosphor Bronze C5210R-EH Thickness=0.35mm
 Pins: Brass C2680R-H Thickness=0.35mm
 Shield: Copper alloy Brass H65Y Thickness=0.2mm
 Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 250°C, 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: TOM	TITLE: RJ45 Connector with 1000 Base-T Integrated Magnetics For PoE+ Application
ANGLES ±1°	UNIT: mm	PART NO.: LPJDP4500BHNL
	SCALE: 2/1	SHEET: 2/2
	REV: A	DWG NO.: LP22083107