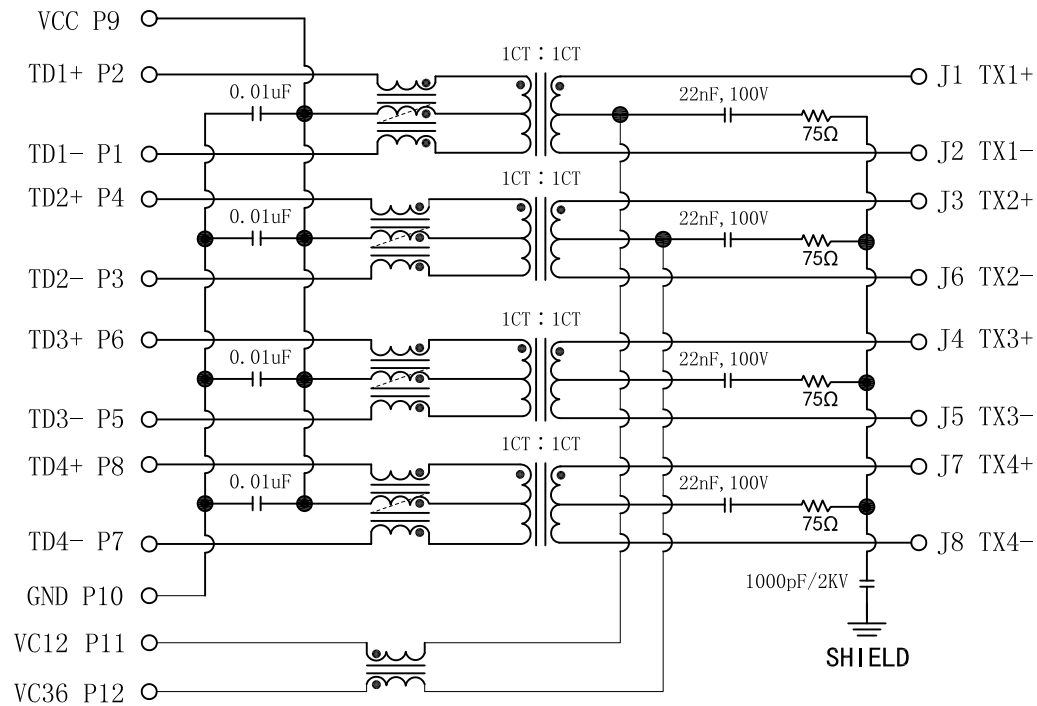


# Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2015/05/11	

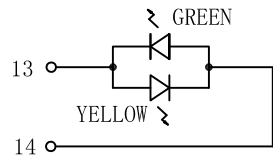
PC BOARD CONNECTIONS



RJ45 CONNECTOR

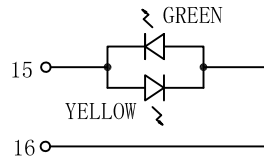
## Electrical Specifications @25°C

1. OCL: 350uH Min  
@100KHz, 0.1Vrms For CHANNEL 1 AND CHANNEL 2 ,  
11mA DC Bias.  
Compliant to IEEE 802.3at specification  
For CHANNEL 3 AND CHANNEL 4  
8mA DC Bias.
2. Turns Ratio( $\pm 2\%$ ): 1CT : 1CT
3. Insertion Loss(dB Max):  
0.1-1MHz:-1.1      1-65MHz:-0.5  
65-100MHz:-0.8      100-125MHz:-1.2
4. Return Loss(dB Min @100  $\Omega \pm 15\%$ ):  
0.5-40MHz:-18  
40-100MHz:-12+20LOG(f/80MHz)
5. Crosstalk:  
1-100MHz:-30dB Min
6. CM to CM Rej:  
0.1-100MHz:-30dB Min
7. CM to DM Rej:  
0.1-100MHz:-35dB Min
7. Balanced DC Line Current:  
720mA Max @57 VDC Continuous  
1.2A Max @57 VDC For 200 Milliseconds
8. Hipot: 1500Vac 60s or 2250Vdc 60s.
9. Operating Temperature: -40°C ~ +85°C.



LEFT LED

LED POLARITY		COLOR
PIN 13	PIN 14	
+	-	YELLOW
-	+	GREEN



RIGHT LED

LED POLARITY		COLOR
PIN 15	PIN 16	
+	-	YELLOW
-	+	GREEN

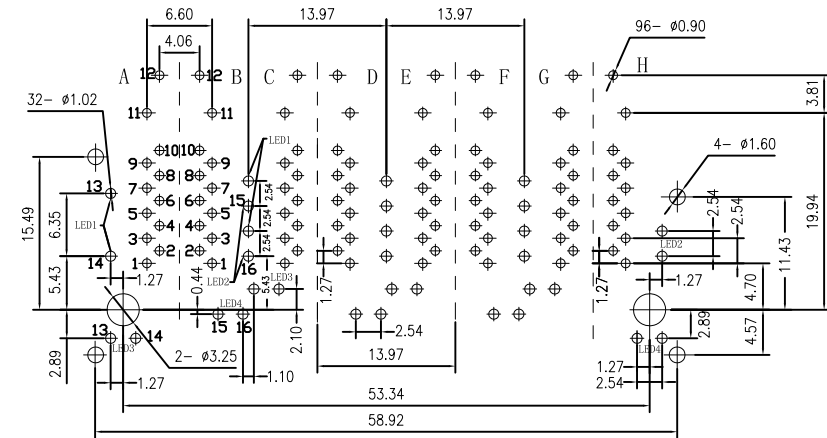
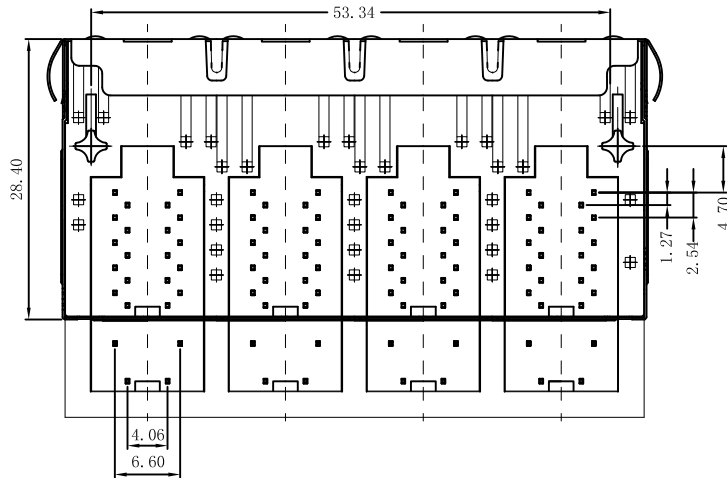
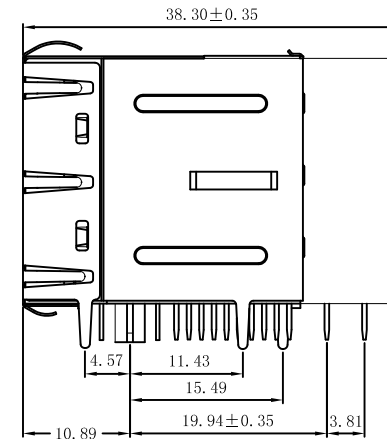
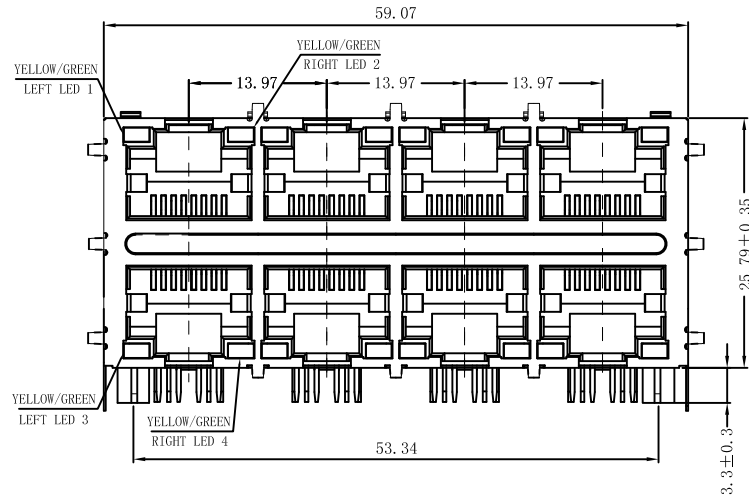


Emitting Color	$\lambda$ p(nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 $\mu$ A max
YELLOW	585	1.8~2.6V	10 $\mu$ A max

X:X	$\pm 0.30$	APPD:	<b>LINK-PP</b> LINK-PP INT'L TECHNOLOGY CO., LIMITED
X:XX	$\pm 0.25$	CHKD:	
X:XXX	$\pm 0.05$	DR: TOM	TITLE: RJ45 .Transformer.1000 Base-T W/LED. 2X4 Port For PoE+ Application
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO.: LPJG47044A47NL
	SCALE: 2/1	SHEET: 1/2	REV: A      DWG NO.: LP15051101

# Mechanical :

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2015/05/11	



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: 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, 5 Sec Max.



X:X	±0.30	APPD:	<b>LINK-PP</b> LINK-PP INT'L TECHNOLOGY CO., LIMITED
X:XX	±0.25	CHKD:	
X:XXX	±0.05	DR: TOM	
ANGLES	±1°	UNIT: mm	TITLE: RJ45 . Transformer. 1000 Base-T W/LED. 2×4 Port For PoE+ Application
			PART NO.: LPJG47044A47NL
	SCALE: 2/1	SHEET: 2/2	REV: A DWG NO.: LP15051101