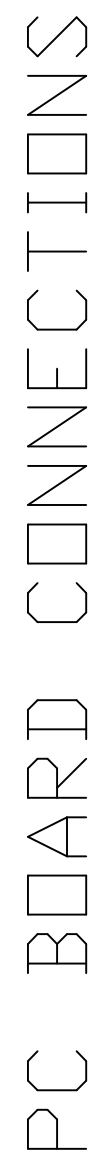


Schematic:

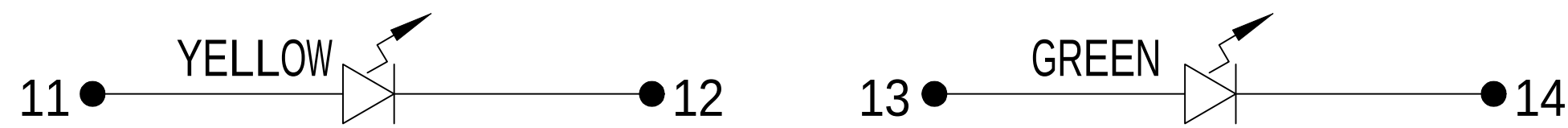


RJ45 CONNECTOR

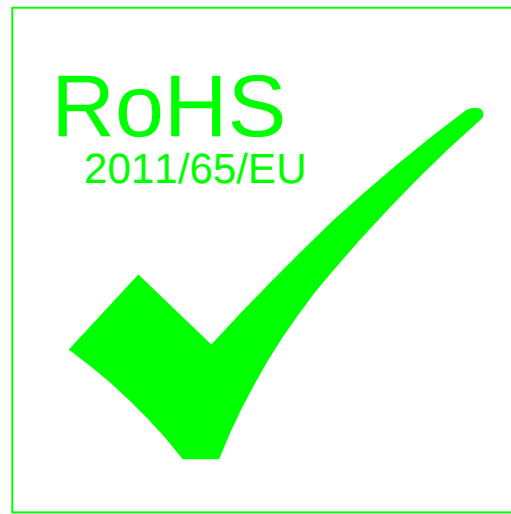
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2023-08-13	

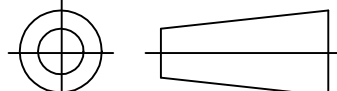
ELECTRICAL SPECIFICATIONS @25°C

1. Turn Ratio : 1CT:1CT $\pm 5\%$
2. OCL: 350uH Min @100KHz, 0.1V 8mA DC Bias
3. Insertion Loss (dB Max):
1-100MHz: -1.2
4. Return Loss(dB Min):
1-30MHz: -16 30-60MHz: -14
60-80MHz: -12 80-100MHz: -10
5. Cross Talk(dB Min):
1-100MHz: -30
6. Common Mode Rejection(dB Min):
1-100MHz: -30
7. Isolation PHY SIDE To Line SIDE : 1500Vrms
8. Operating Temperature Range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$.

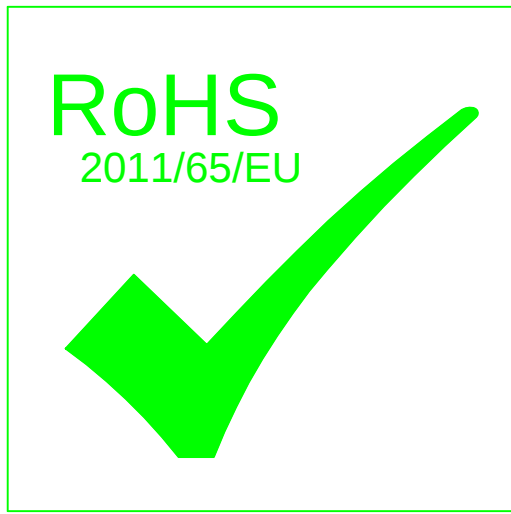
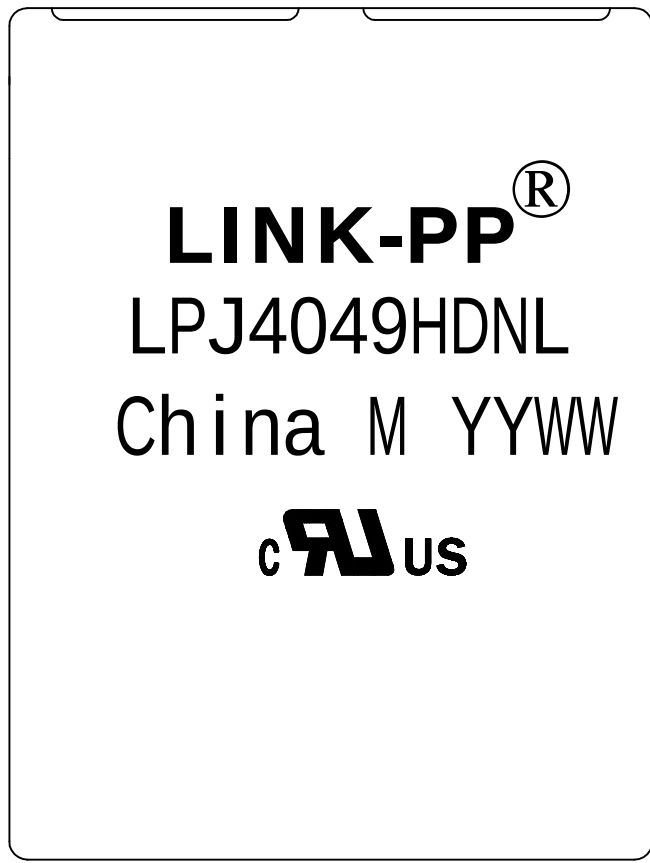
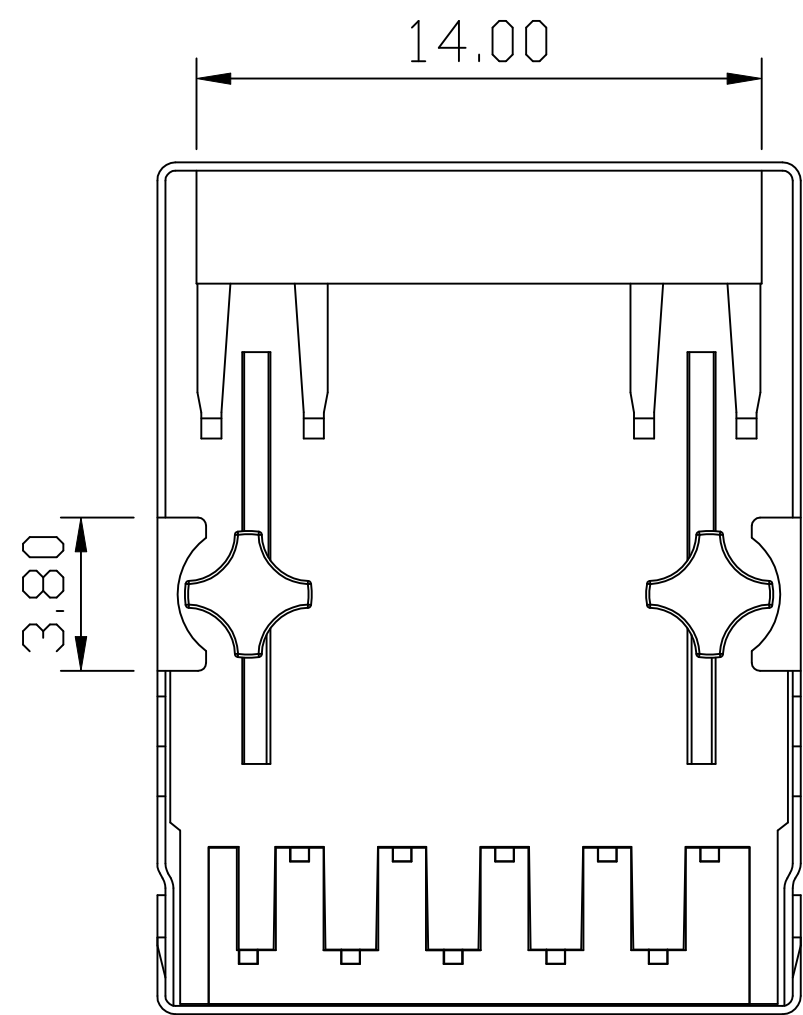
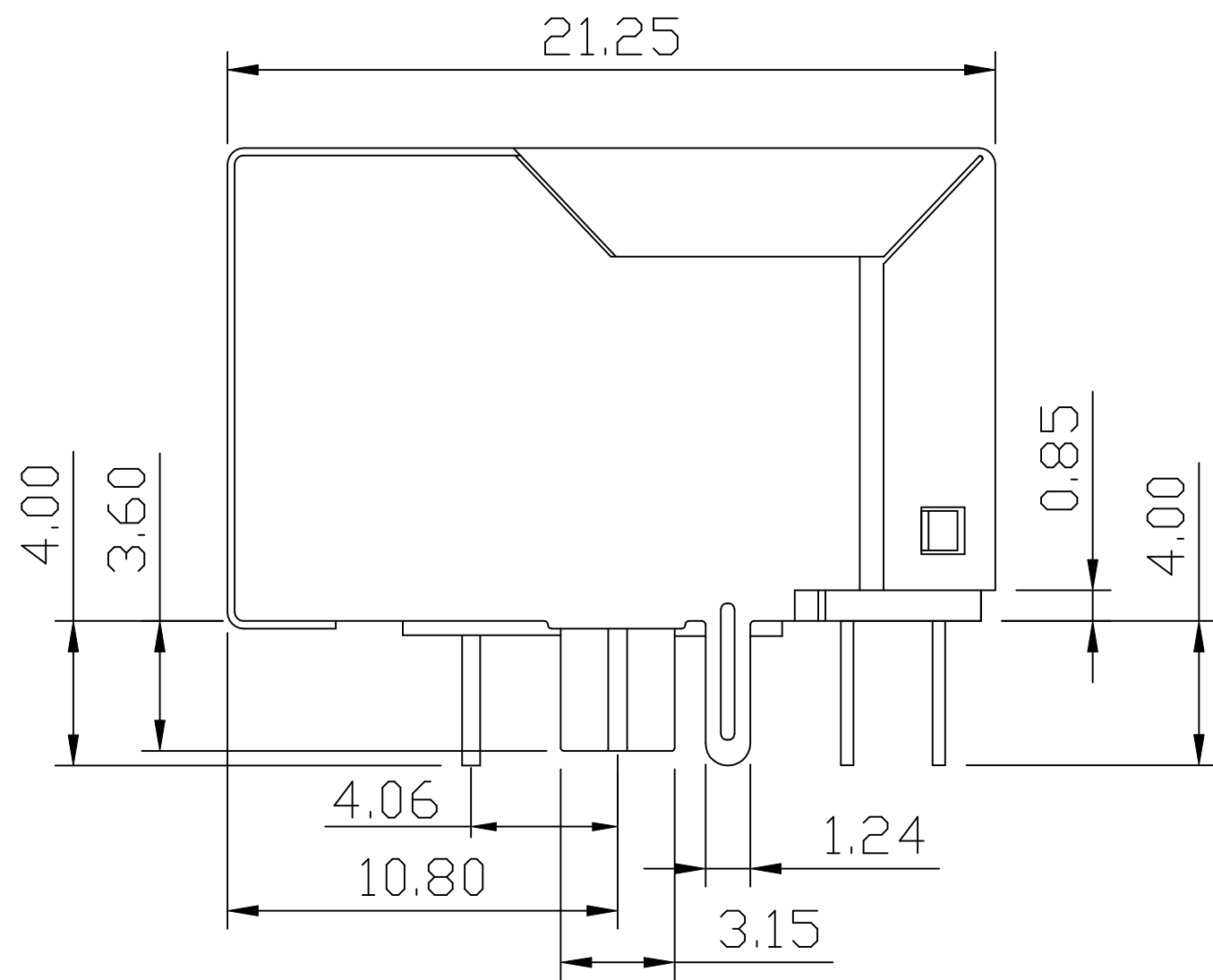
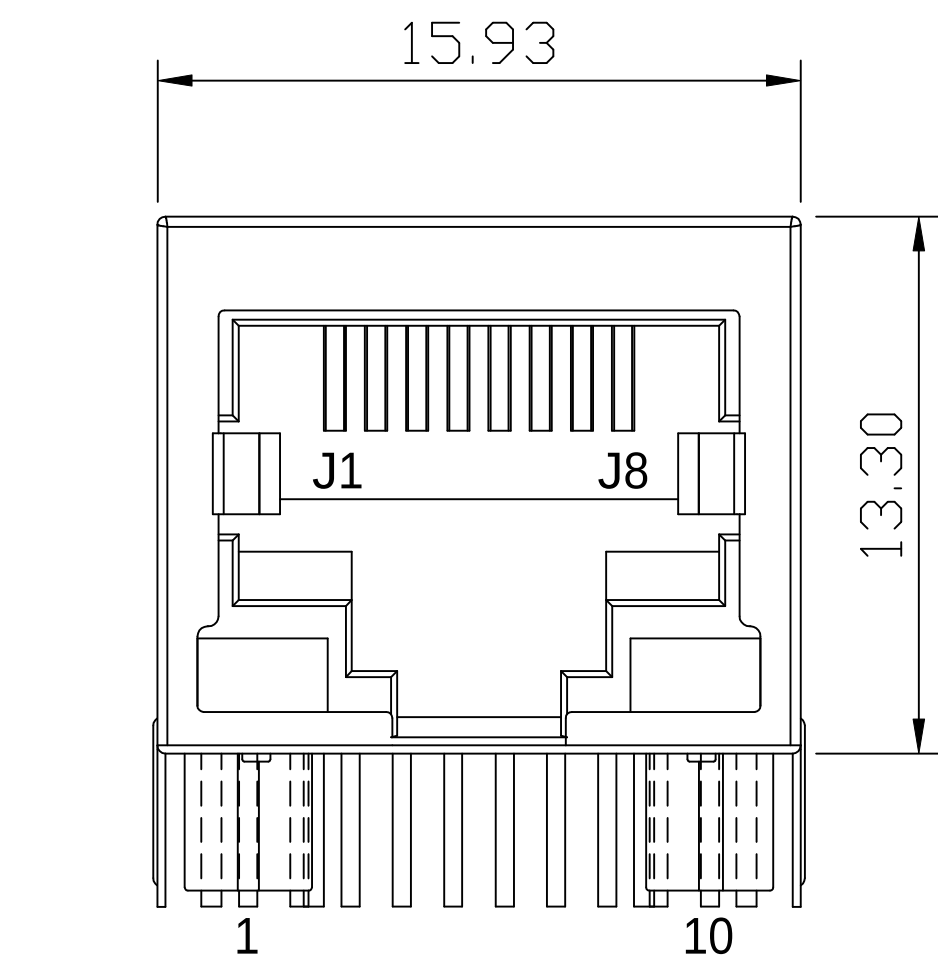


LEFT LED		RIGHT LED	
EMITTING COLOR	$\lambda_p(\text{nm})$	VF @IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 μA max
YELLOW	585	1.8~2.6V	10 μA max

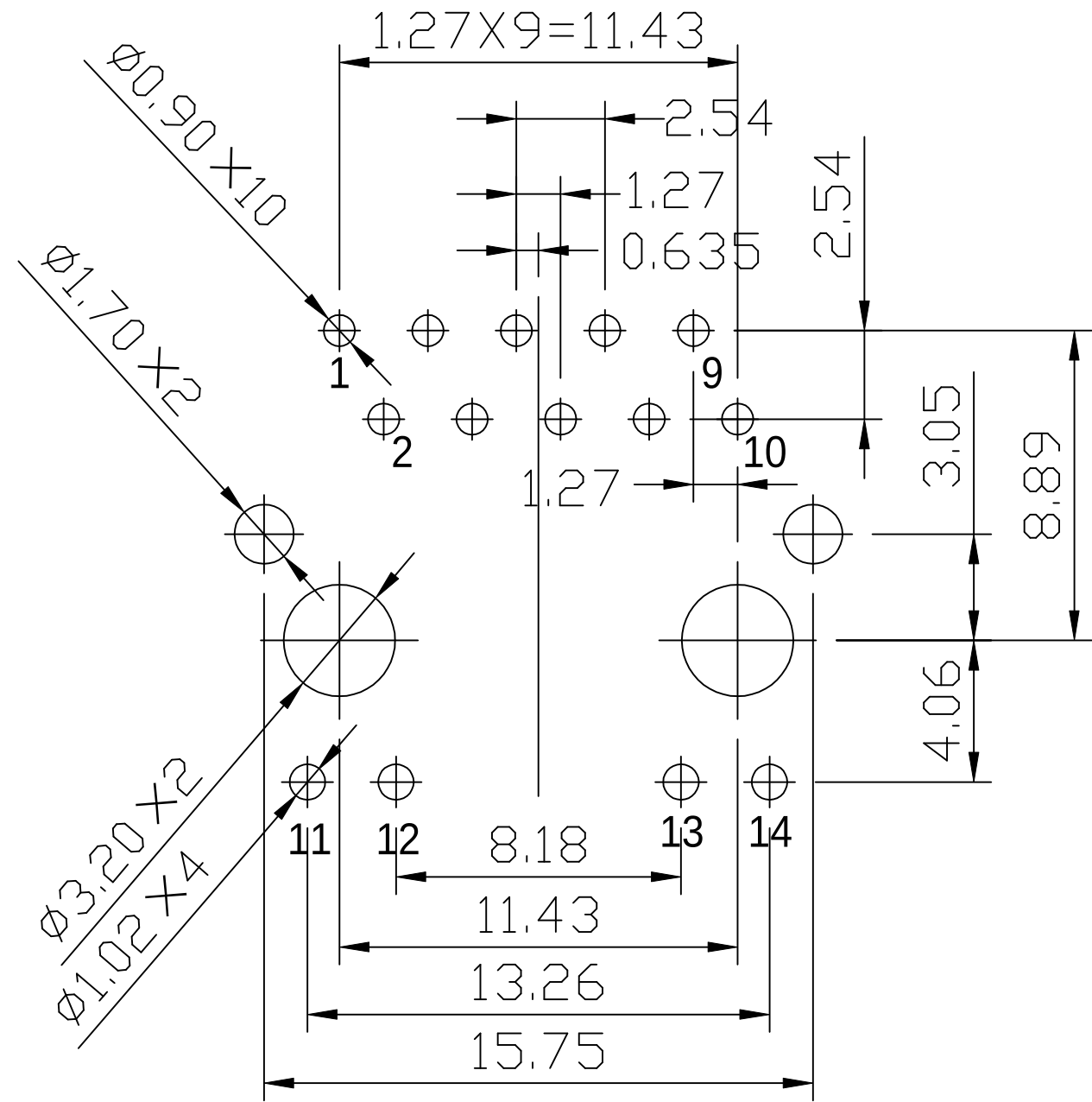


X.X	± 0.30	APPD: TOM	LINK-PP INT'L TECHNOLOGY CO., LIMITED		
X.XX	± 0.25	CHKD: JAMES	TITLE: RJ45 CONNECTOR WITH 10/100 BASE-T INTEGRATED MAGNETICS FOR POE APPLICATION		
X.XXX	± 0.15	DR: JULY			
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO.: LPJ4049HDNL		
		SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO.: LP23081322

Mechanical:



REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2023-08-13	



RECOMMENDED PCB LAYOUT(TOP VIEW)

- NOTES:
- 1.Designed to support application,such as SOHO(ADSL modems),LAN-on-Motherboard(LOM),hub and Switches.
 - 2.Meets IEEE802.3af 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 304-1/2H Thickness=0.2mm
Contact plating: Gold 6 micro-inches min.In contact area.
 - 4.Wave solder tip temperature and time: 250℃,5 Sec.
 - 5.UL Certification: File Number E484635.

X.X	±0.30	APPD: TOM	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X.XX	±0.25	CHKD: JAMES	TITLE: RJ45 CONNECTOR WITH 10/100 BASE-T INTEGRATED MAGNETICS FOR POE APPLICATION	
X.XXX	±0.15	DR: JULY		
ANGLES	±1°	UNIT: mm	PART NO.: LPJ4049HDNL	
		SCALE: 2/1	SHEET: 2/2	REV: A DWG NO.: LP23081322