

Schematic:



RJ45 CONNECTOR

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2015-01-22	

ELECTRICAL SPECIFICATIONS @25 °C

1.Turn Ratio : 1CT:1CT $\pm$ 5%

2.0CL: 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: -12

60-80MHz: -10

80-100MHz: -8

5. Cross Talk(dB Min):

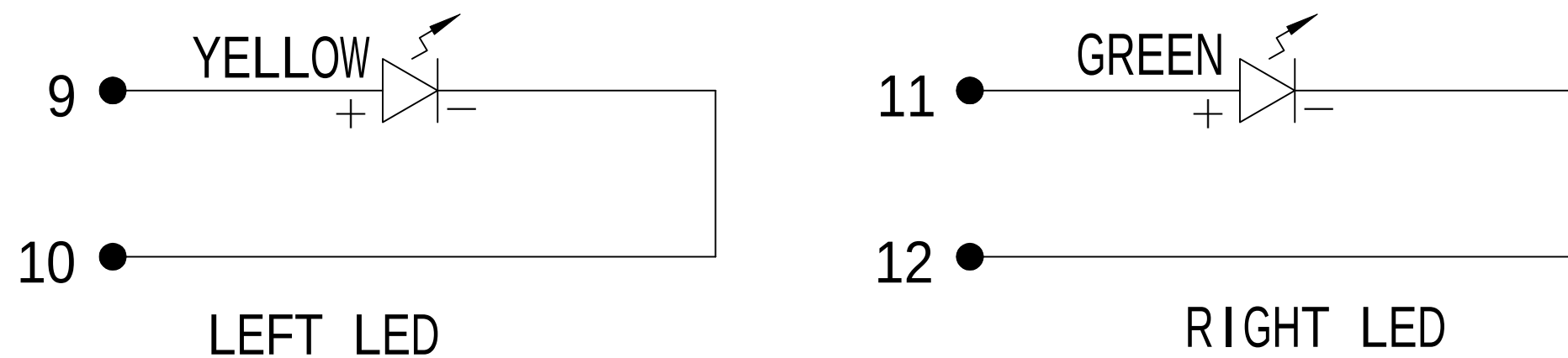
1-100MHz: -30

6.Common Mode Rejection(dB Min):

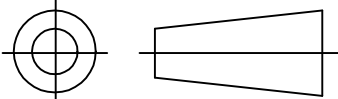
1-100MHz: -30

7.Isolation PHY SIDE To Line SIDE : 1500Vrms

8.Operating Temperature Range: -40℃~+85℃.



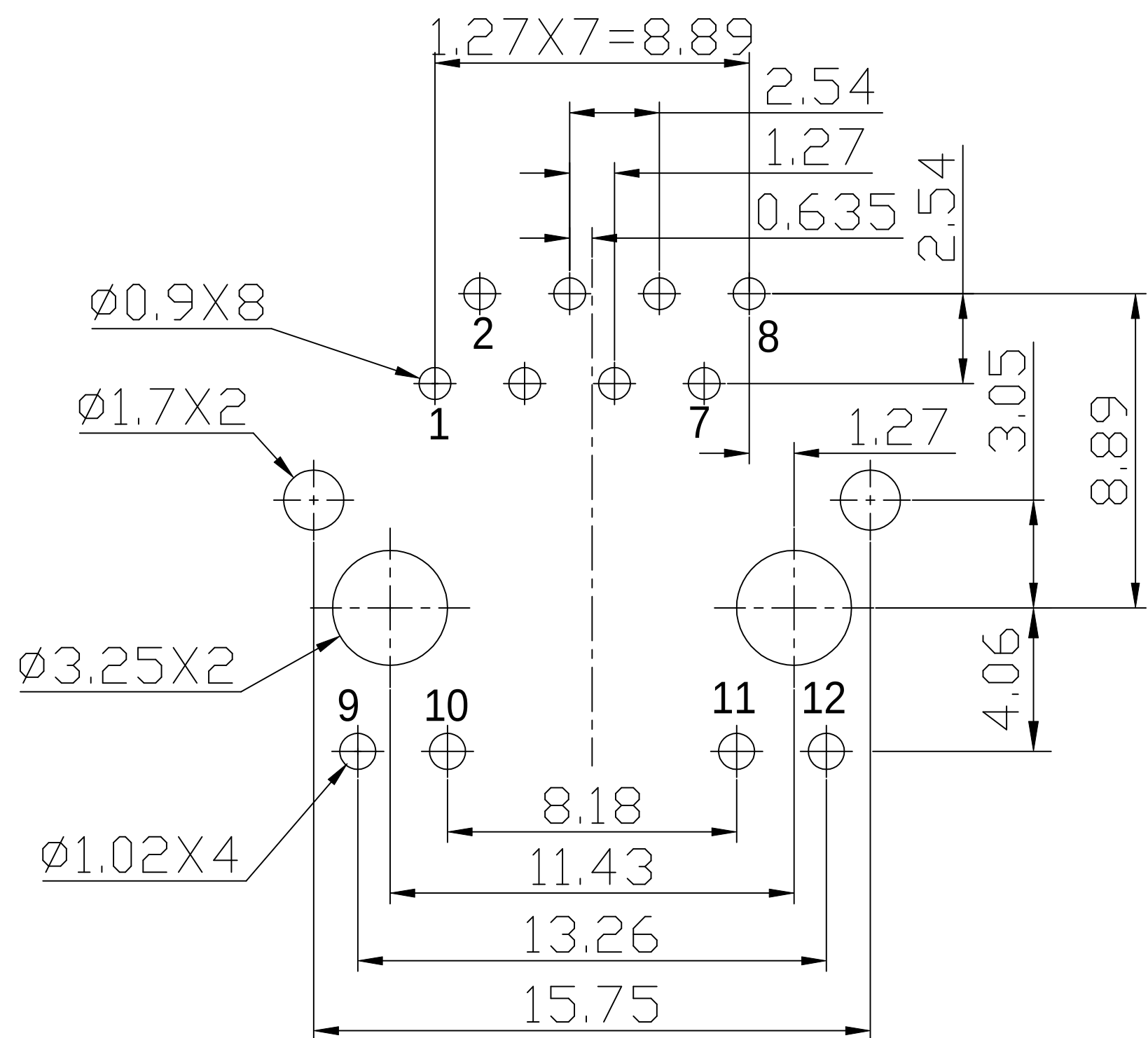
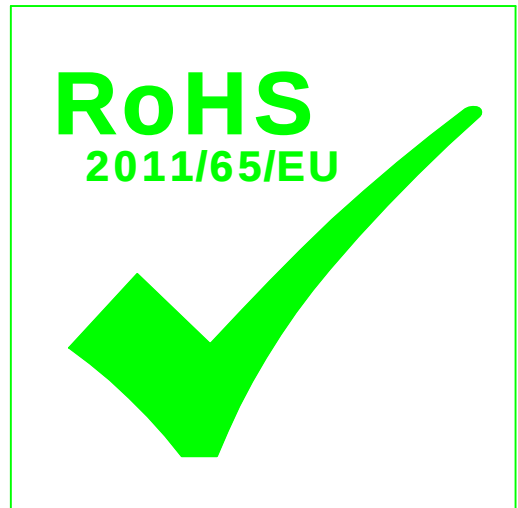
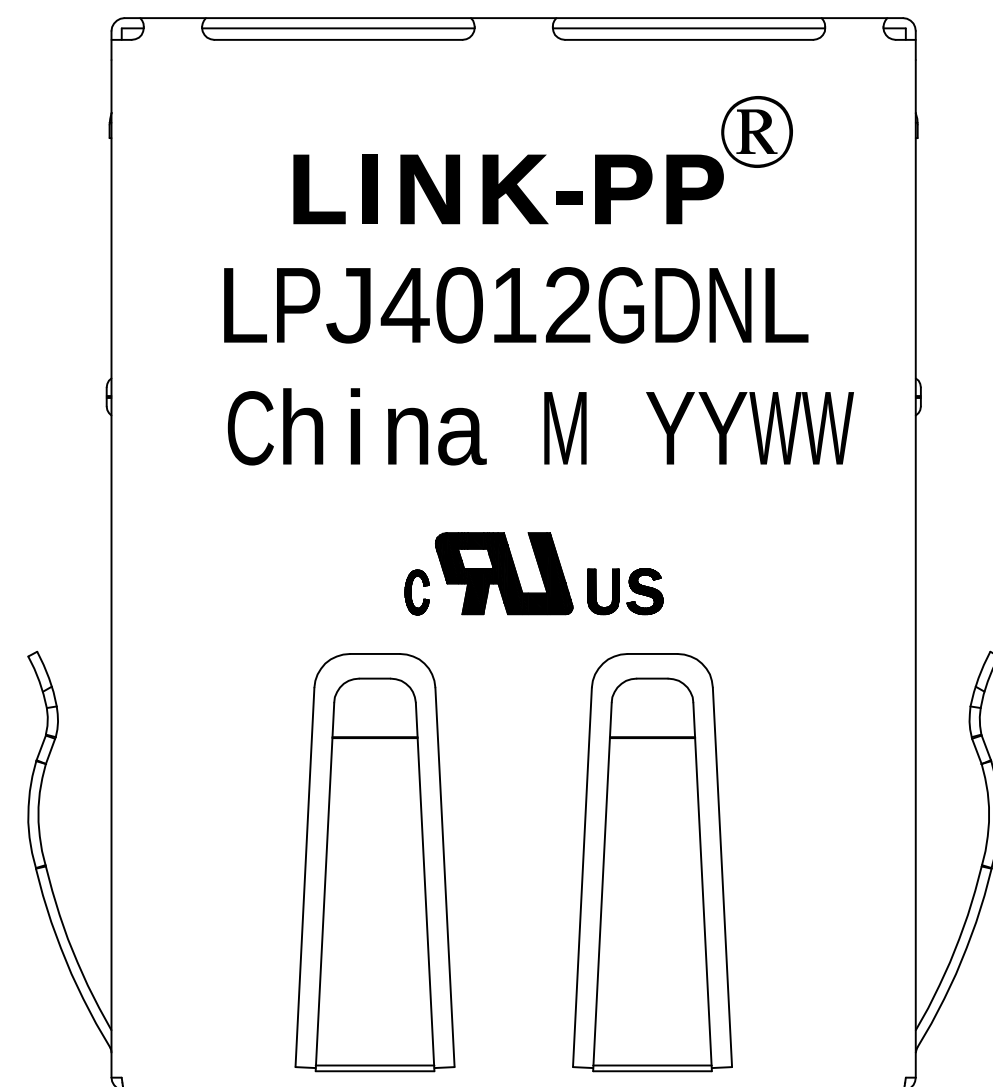
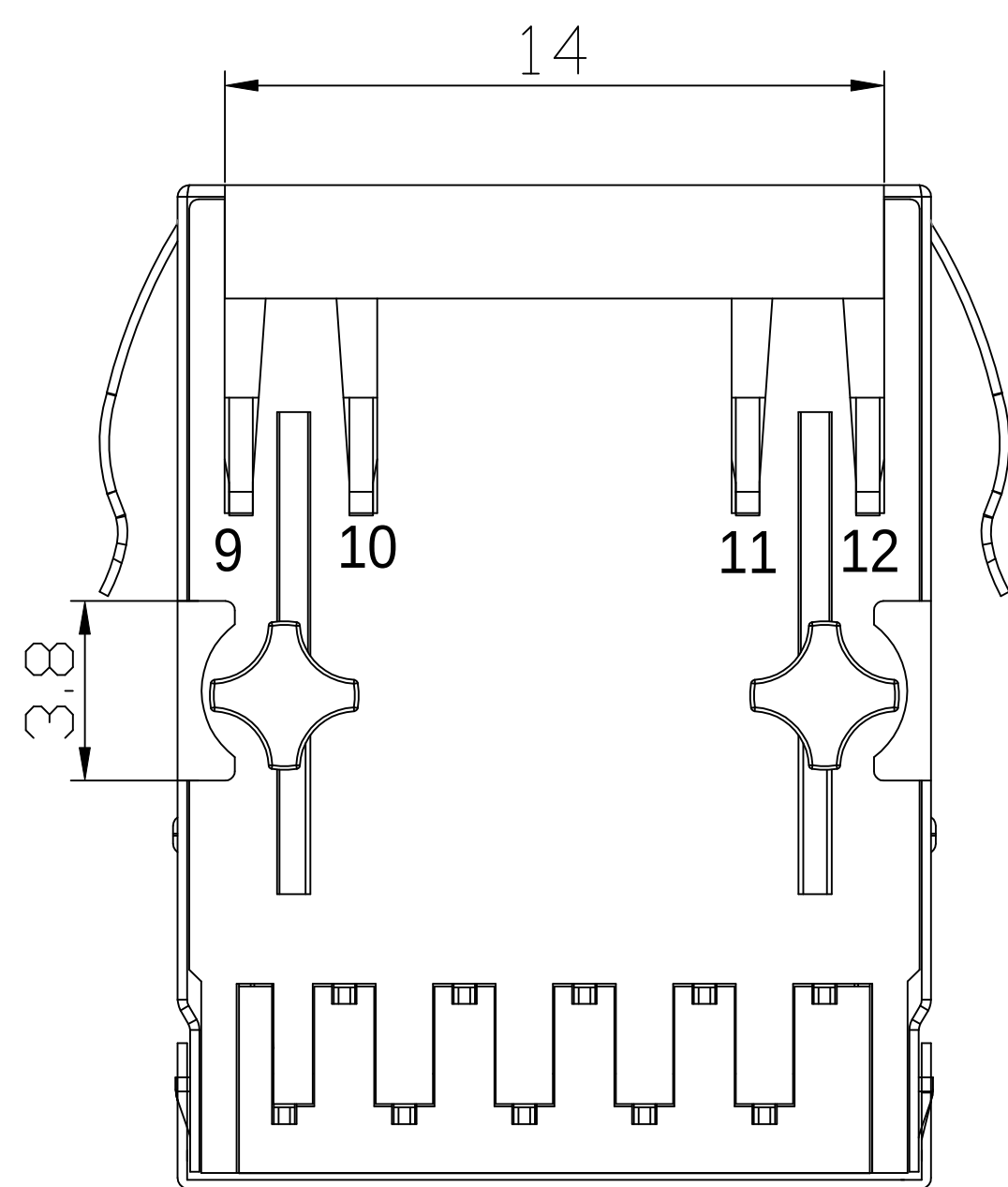
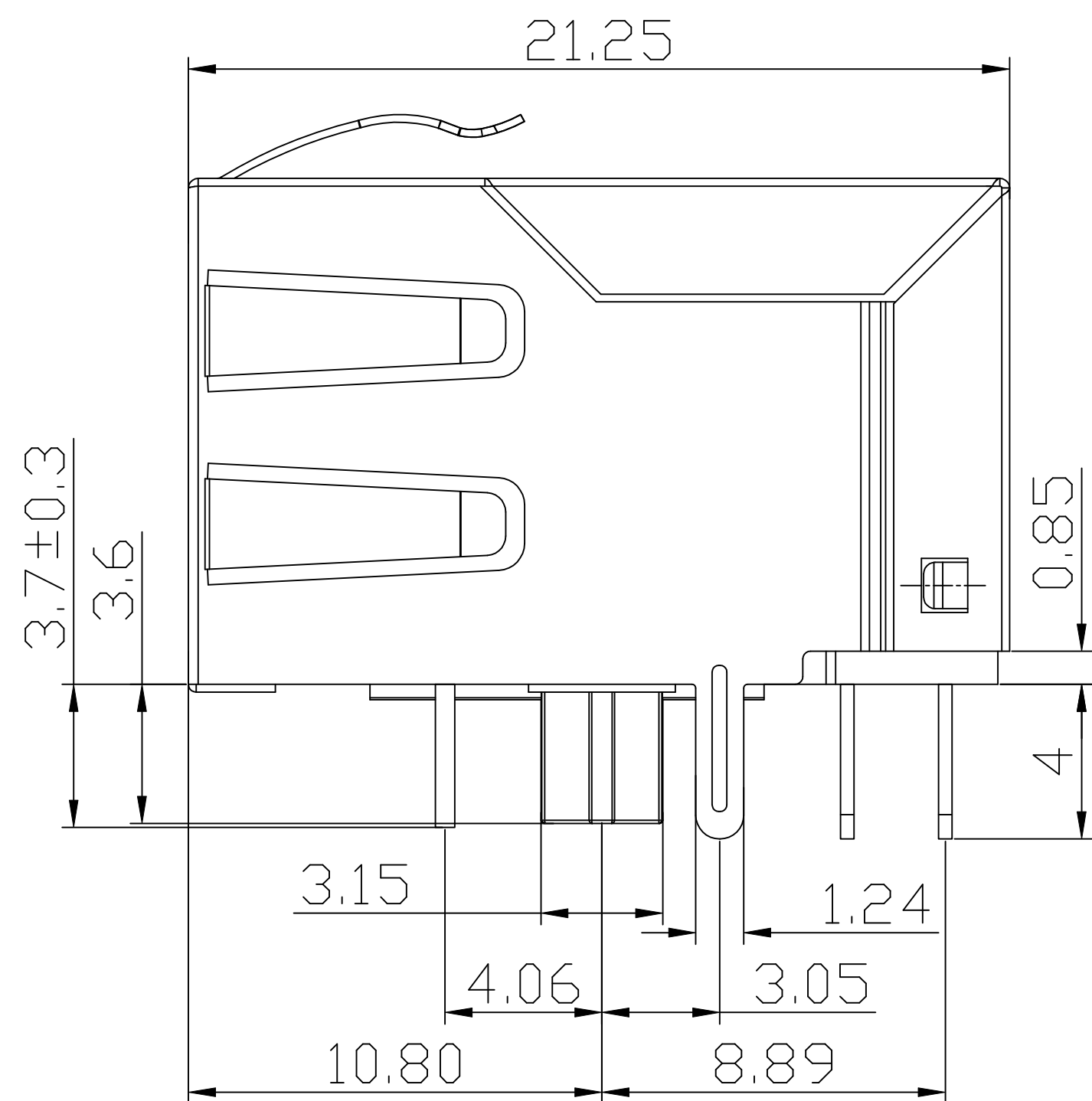
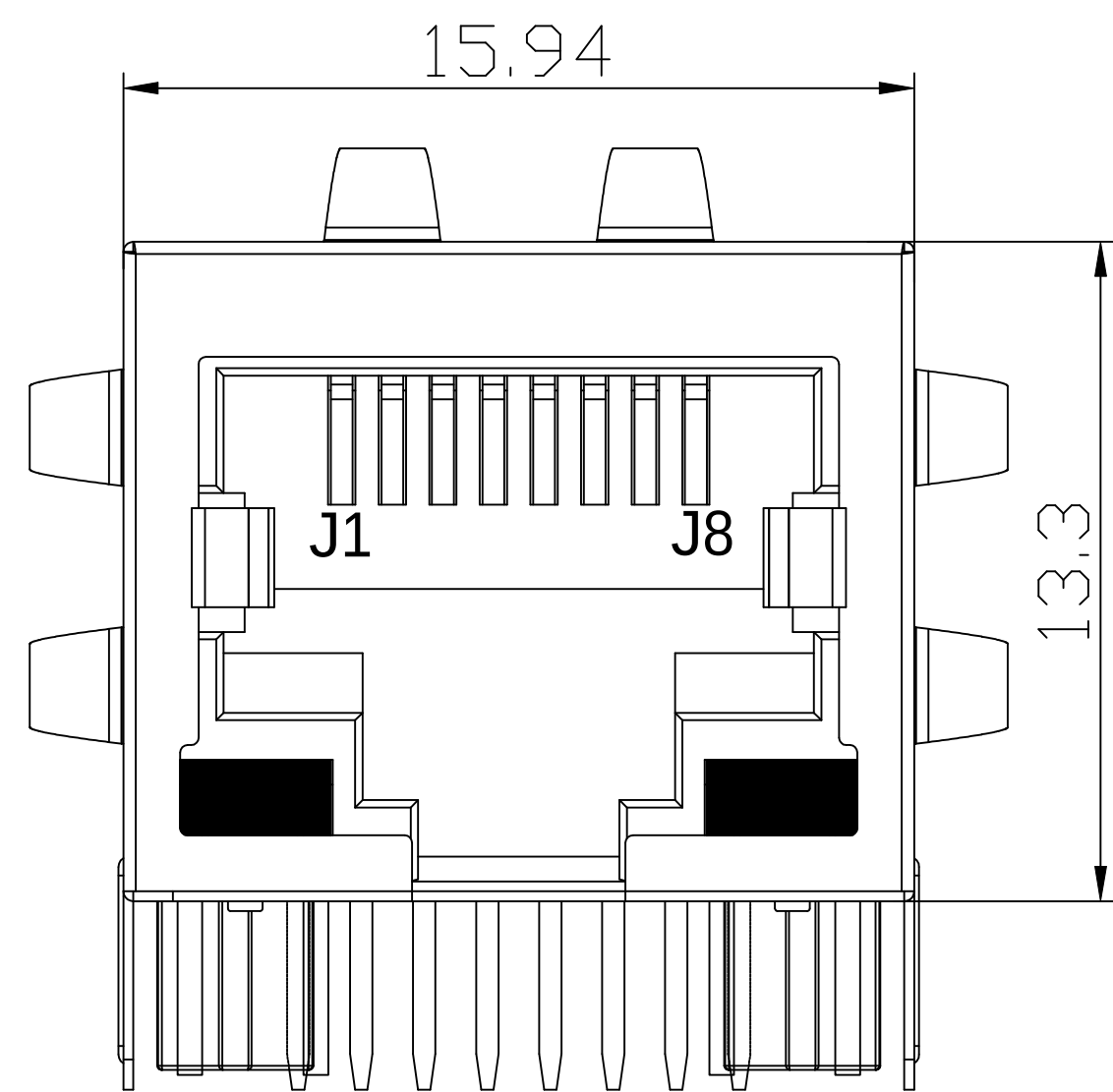
EMITTING COLOR	λ p(nm)	VF @IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max

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 & WITH EMI SPRING FINGER & WITH LED		
X.XXX	± 0.15	DR:	LEO			
ANGLES	$\pm 1^\circ$	UNIT:	mm	PART NO.: LPJ4012GDNL		
		SCALE:	2/1	SHEET:	1/2	REV: A DWG NO.: LP15012225



Mechanical:

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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 IEEE802.3 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 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.

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X.XX	±0.25	CHKD: JAMES	TITLE: RJ45 CONNECTOR WITH 10/100 BASE-T INTEGRATED MAGNETICS & WITH EMI SPRING FINGER & WITH LED	
X.XXX	±0.15	DR: LEO		
ANGLES	±1°	UNIT: mm	PART NO.: LPJ4012GDNL	
		SCALE: 2/1	SHEET: 2/2	REV: A DWG NO.: LP15012225