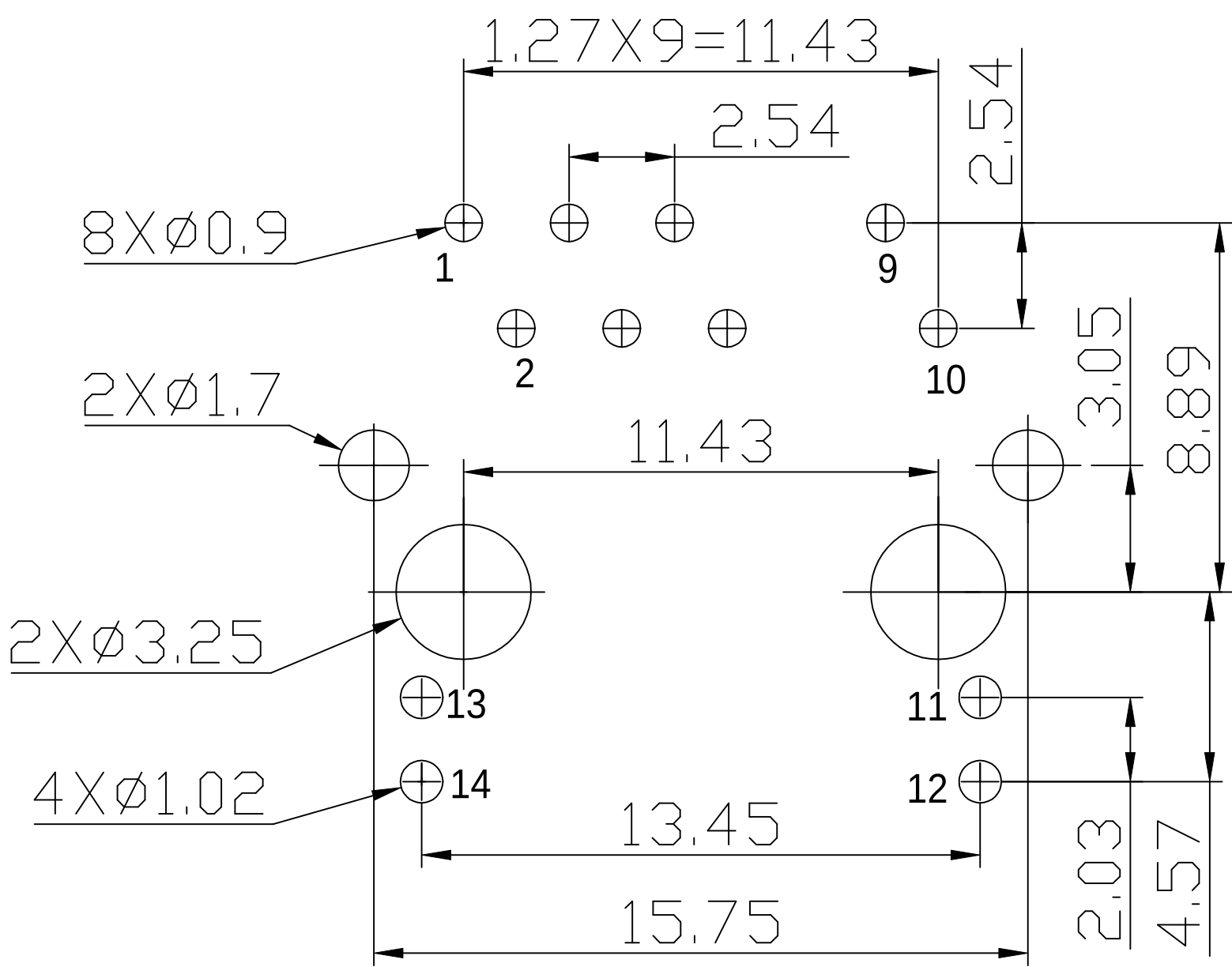
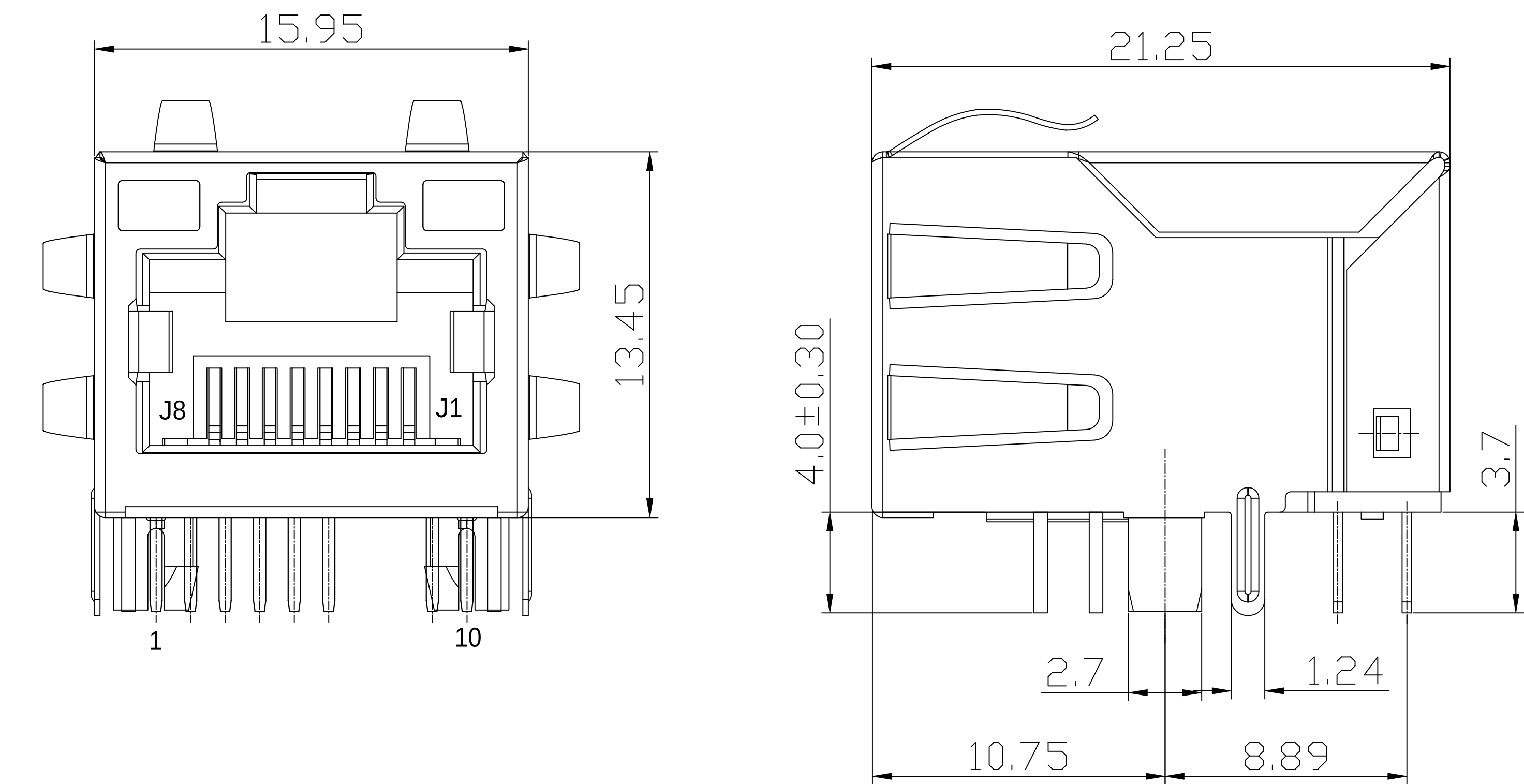


Mechanical:

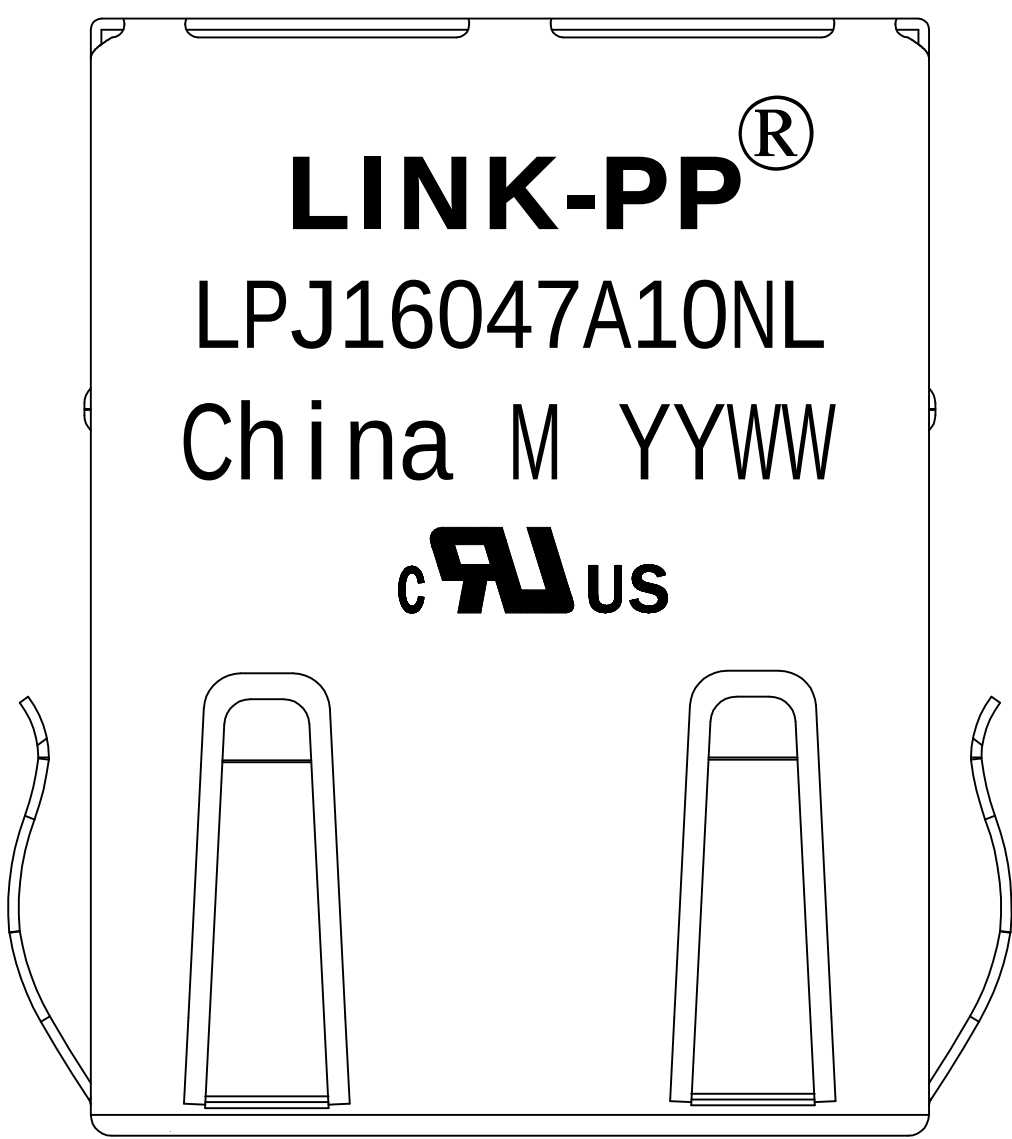
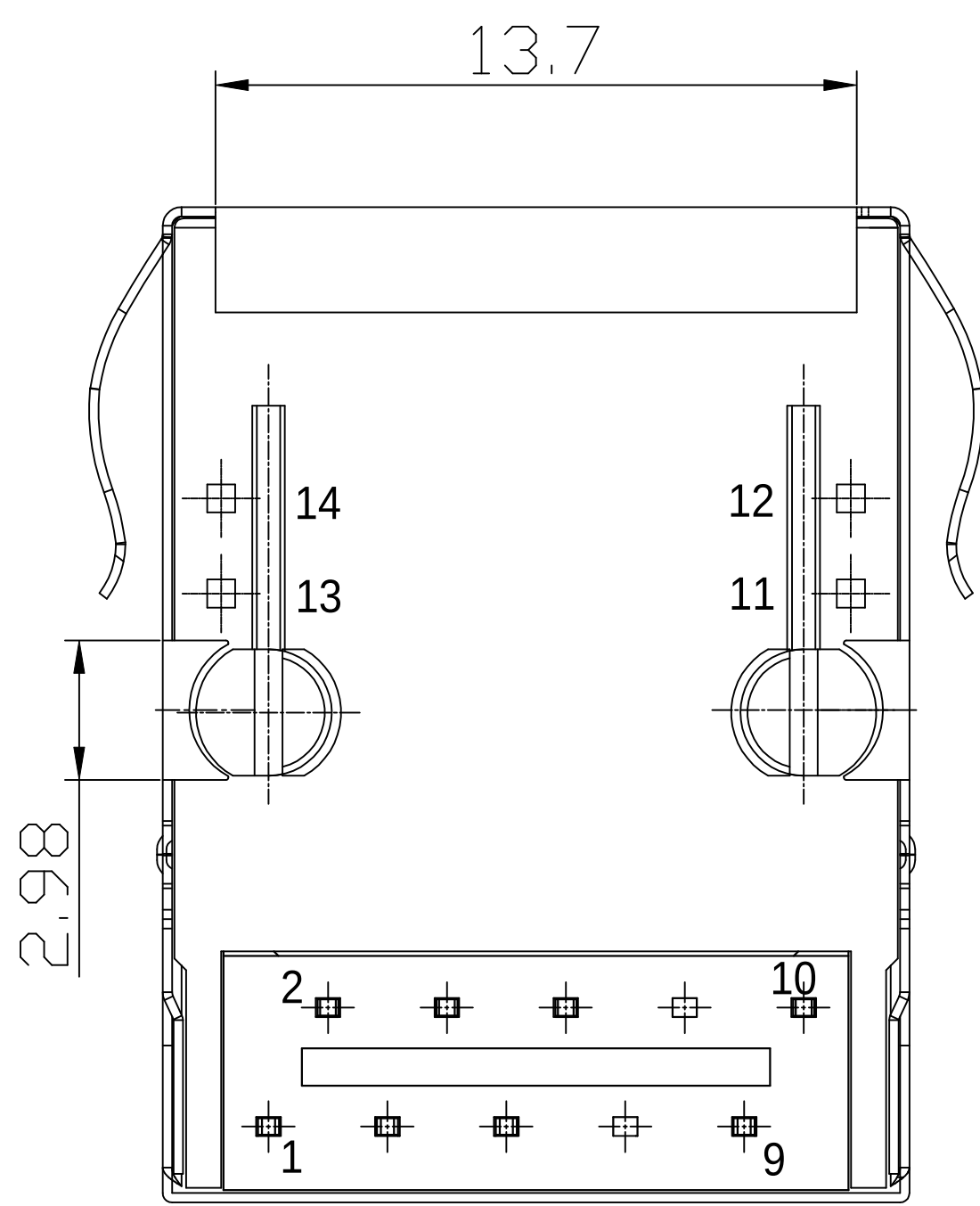
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2024-02-17	LP014082



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 Black 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:	
X.XXX	±0.15	DR: JULY	RJ45 CONNECTOR WITH 10/100 BASE-T INTEGRATED MAGNETICS & WITH EMI SPRING FINGER & WITH LED FOR POE APPLICATION	
ANGLES	±1°	UNIT: mm	PART NO.:	LPJ16047A10NL
		SCALE: 2/1	SHEET: 2/2	REV: A
				DWG NO.: LP24021712

Schematic:

PC BOARD CONNECTIONS

TD+ 4

TCT 5

TD- 6

RD+ 1

RCT 3

RD- 2

VC+ 9

VC- 10

1CT : 1CT

1CT : 1CT

J1 TX+

J2 TX-

J3 RX+

J6 RX-

J4

J5

J7

J8

J1 TX+

J2 TX-

J3 RX+

J6 RX-

J4

J5

J7

J8

J1 TX+

J2 TX-

J3 RX+

J6 RX-

J4

J5

J7

J8

RJ45 CONNECTOR

13

14

YELLOW

12

11

GREEN

LEFT LED

RIGHT LED

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 FOR POE APPLICATION	
X.XXX	± 0.15	DR: JULY		
ANGLES	$\pm 1^{\circ}$	UNIT: mm	PART NO.: LPJ16047A10NL	
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO.: LP24021712

RoHS

2011/65/EU

ELECTRICAL SPECFICATIONS @25℃

1.Turn Ratio: 1CT:1CT±5%

2.OCL: 350uH Min @100KHz,0.1V,8mA DC Bias

3.Insertion Loss (dB Max):
1-100MHz: -1.2

4.Return Loss (@100Ω)(dB Min):
1-30MHz: -18 30-60MHz: -16
60-80MHz: -12 80-100MHz: -10

5.Cross Talk(dB Min):
1-100MHz: -30

6.Common Mode Rejection(dB Min):
1-100MHz: -30

7.Balance DC Line current:
350mA MAX,@57VDC Continuous;

8.Isolation PHY SIDE To Line SIDE : 1500Vrms

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

LINK-PP

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