

Schematic:

PCB CONNECTIONS

TD1+ 1 0.1uF J1 TX1+

TD1- 2 0.1uF J2 TX1-

TD2+ 3 0.1uF J3 TX2+

TD2- 4 0.1uF J6 TX2-

TD3+ 5 0.1uF J4 TX3+

TD3- 6 0.1uF J5 TX3-

TD4+ 7 0.1uF J7 TX4+

TD4- 8 0.1uF J8 TX4-

GND 10

75Ω 75Ω 75Ω 75Ω

1000pF/2KV

SHIELD

RJ45 CONNECTOR

ELECTRICAL SPECIFICATIONS @25℃

1.Turn Ratio: 1CT:1CT ±5%

2.OCL: 180uH Min @100KHz,0.1V,8mA DC Bias

3.Insertion Loss (dB Max):
1-100MHz: -1.0 100-125MHz: -1.5

4.Return Loss(dB Min):
1-30MHz: -16 30-100MHz: -12
100-150MHz: -10

5.Cross Talk:
1-125MHz: -25dB Min.

6.Common Mode Rejection(dB Min):
1-125MHz: -30

7.Common Mode to Differential Mode Rejection(dB Min):
1-100MHz: -30 100-125MHz:-25.

8.Isolation PHY SIDE To Line SIDE : 1500Vrms

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

13 ● GREEN

14 ●

11 ● YELLOW

12 ●

LEFT LED

RIGHT LED

EMITTING COLOR	λ p(nm)	VF @IF=20mA	IR @VR=5V
GREEN	565	1.8~2.2V	10 μ A max
YELLOW	585	1.8~2.2V	10 μ A max

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 2X4 CONNECTOR WITH 2.5G BASE-T INTEGRATED MAGNETICS & WITH EMI SPRING FINGER & WITH LED	
ANGLES	±1°	UNIT: mm	PART NO.: LPJT476156AENL	
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO.: LP23122305

RoHS

2011/65/EU

LINK-PP

Website: <http://www.link-pp.com>

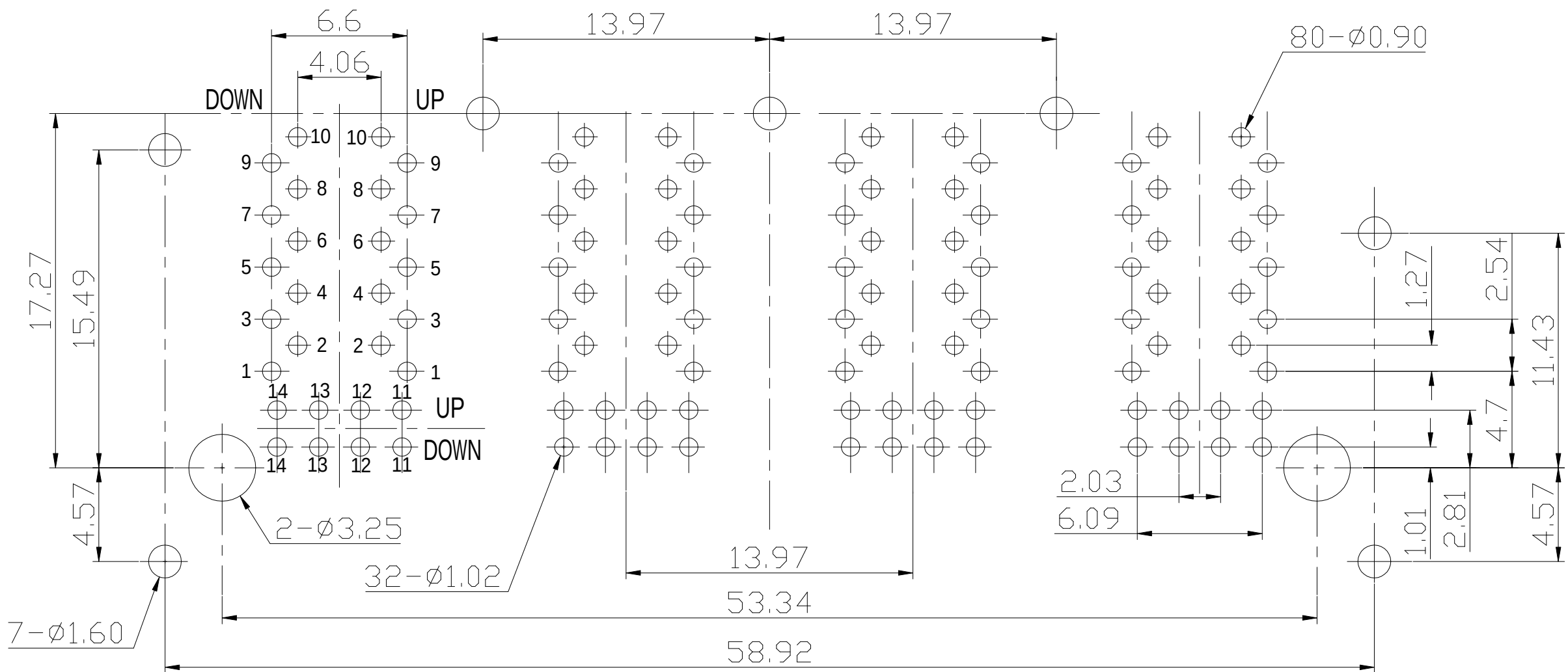
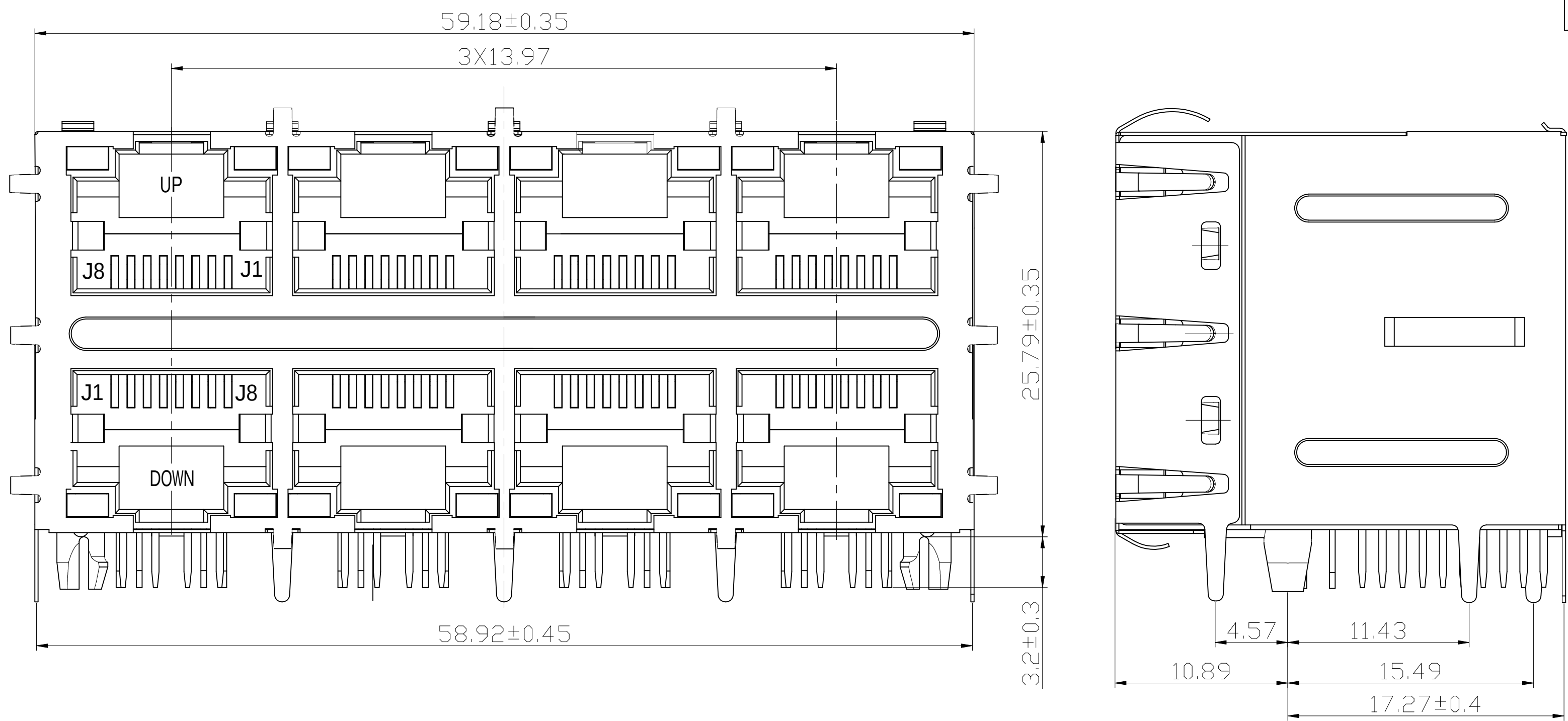
Email: info@link-pp.com

Tel: +86-0752-3322916

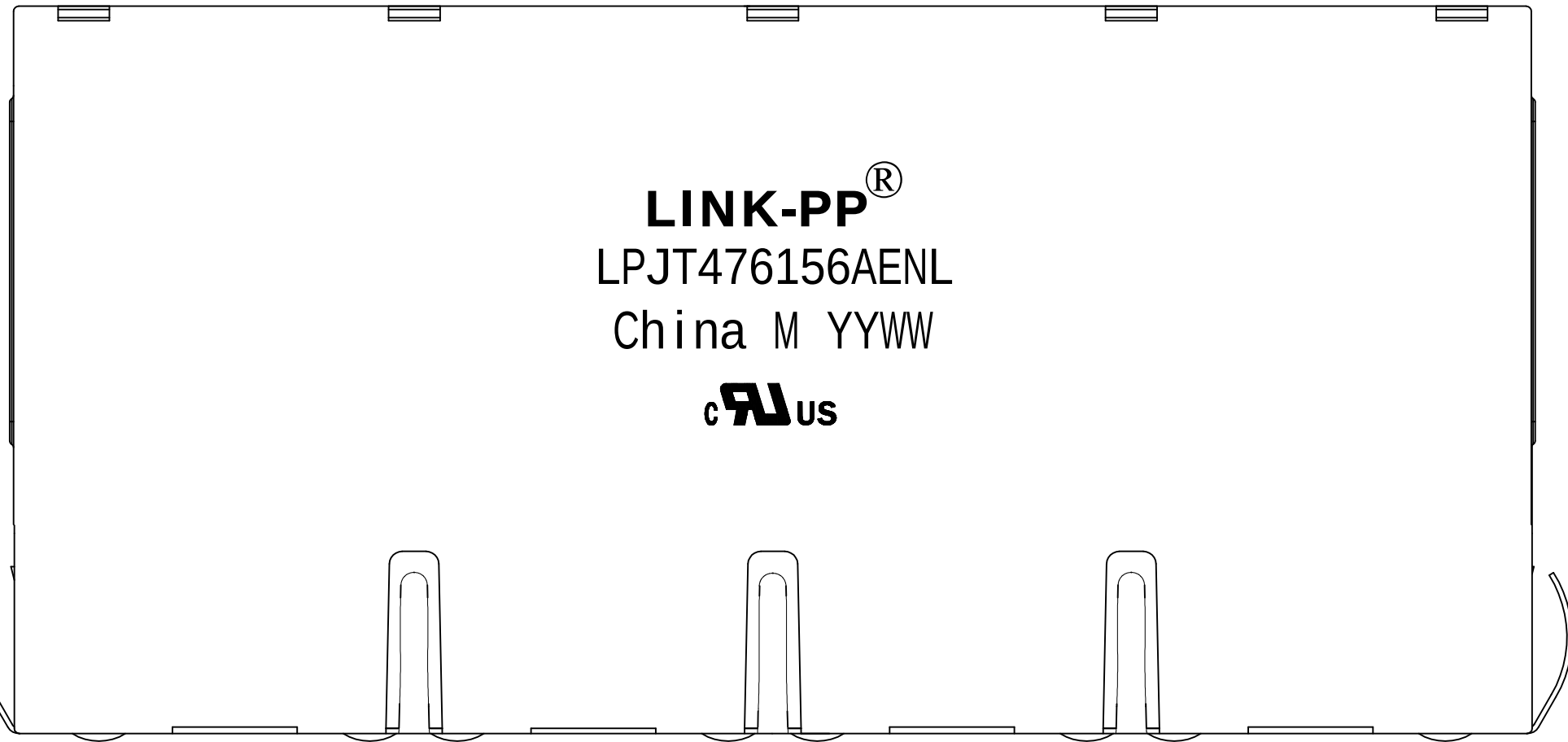
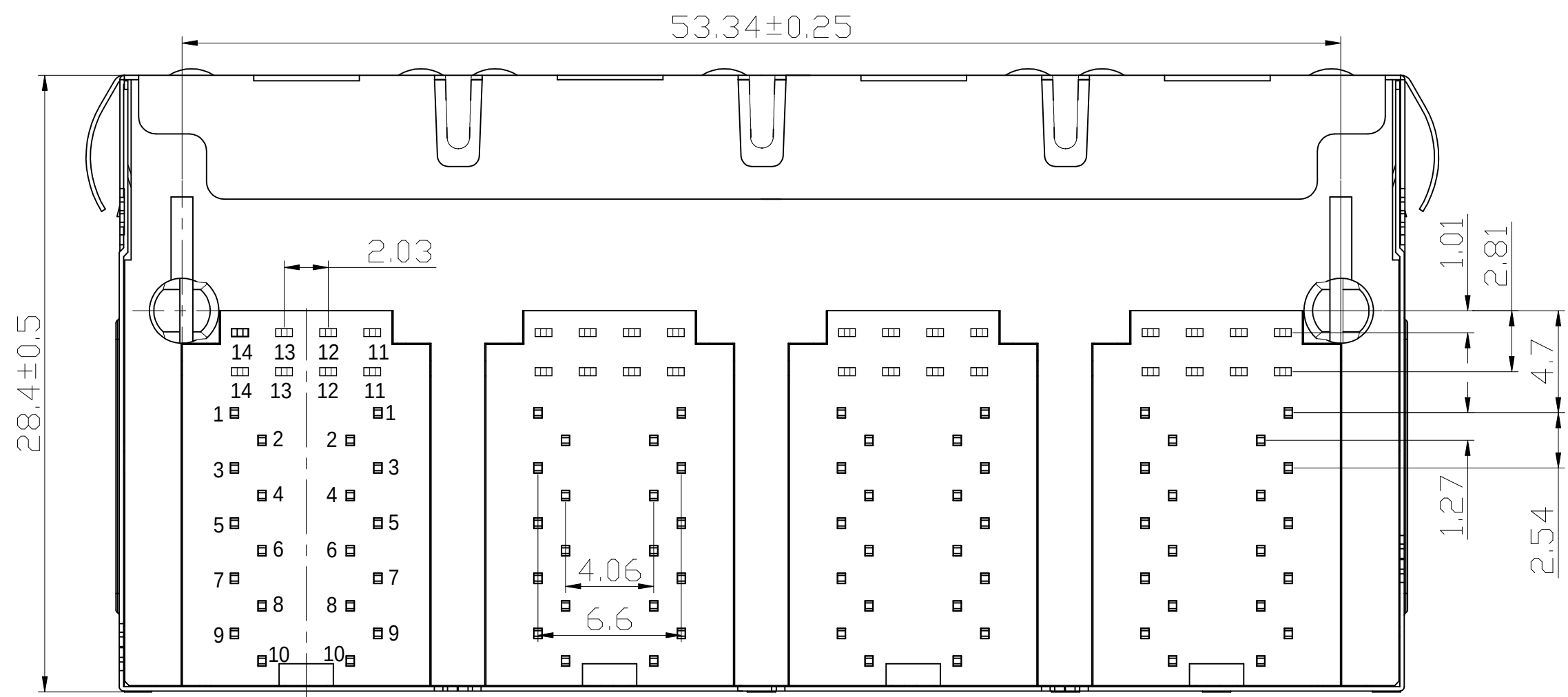
Fax: +86-0752-3161926

Mechanical:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2023-12-13	



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 IEEE802.3 specification.
 - 3.Connector Materials:
Housing: PBT BLACK UL94V-0
Contact: Phosphor Bronze
Shield: Copper alloy plating Nickel
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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