

Schematic:

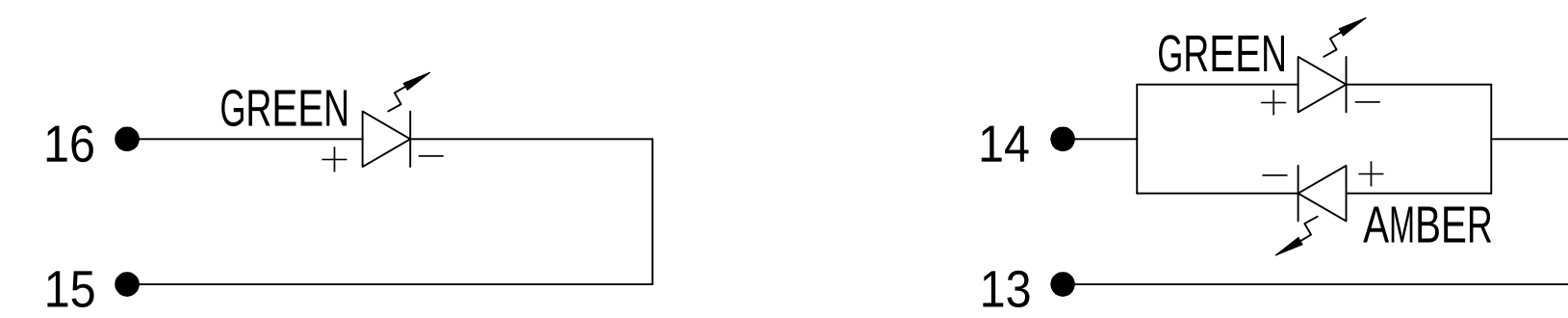


RJ45 CONNECTOR

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2023-11-15	

ELECTRICAL SPECIFICATIONS @25 °C

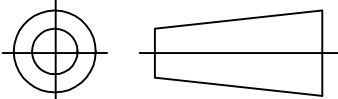
1. Turn Ratio : 1CT:1CT $\pm 5\%$
2. OCL: 350uH Min @100KHz, 0.1V, 8mA DC Bias
3. Insertion Loss (dB Max):
1-100MHz: -1.2
4. Return Loss(dB Min):
1-30MHz: -16 30-60MHz: -12
60-80MHz: -10 80-100MHz: -8
5. Cross Talk(dB Min):
1-100MHz: -30
6. Common Mode Rejection(dB Min):
1-100MHz: -30
7. Isolation PHY SIDE To Line SIDE : 1500Vrms
8. Operating Temperature Range: 0°C ~ 70°C.

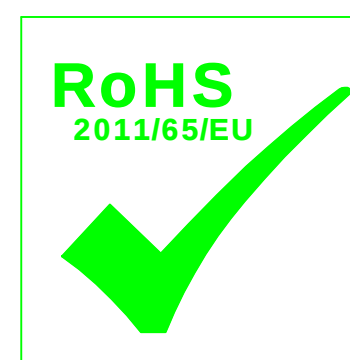


LEFT LED

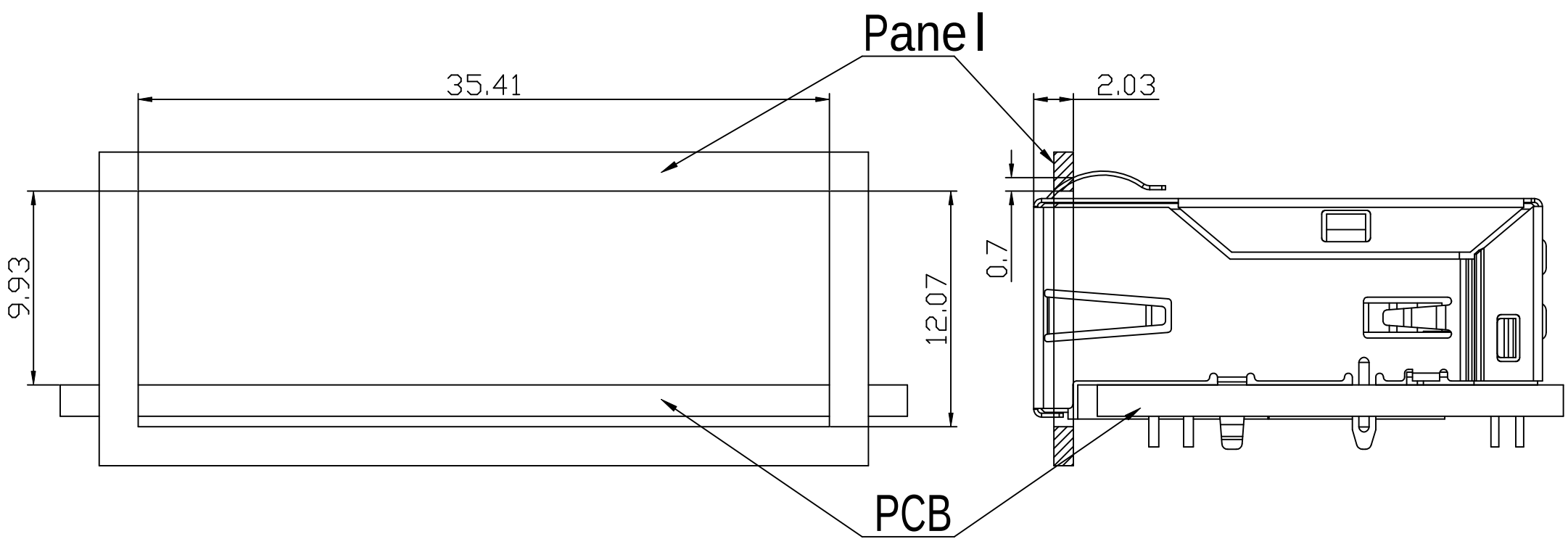
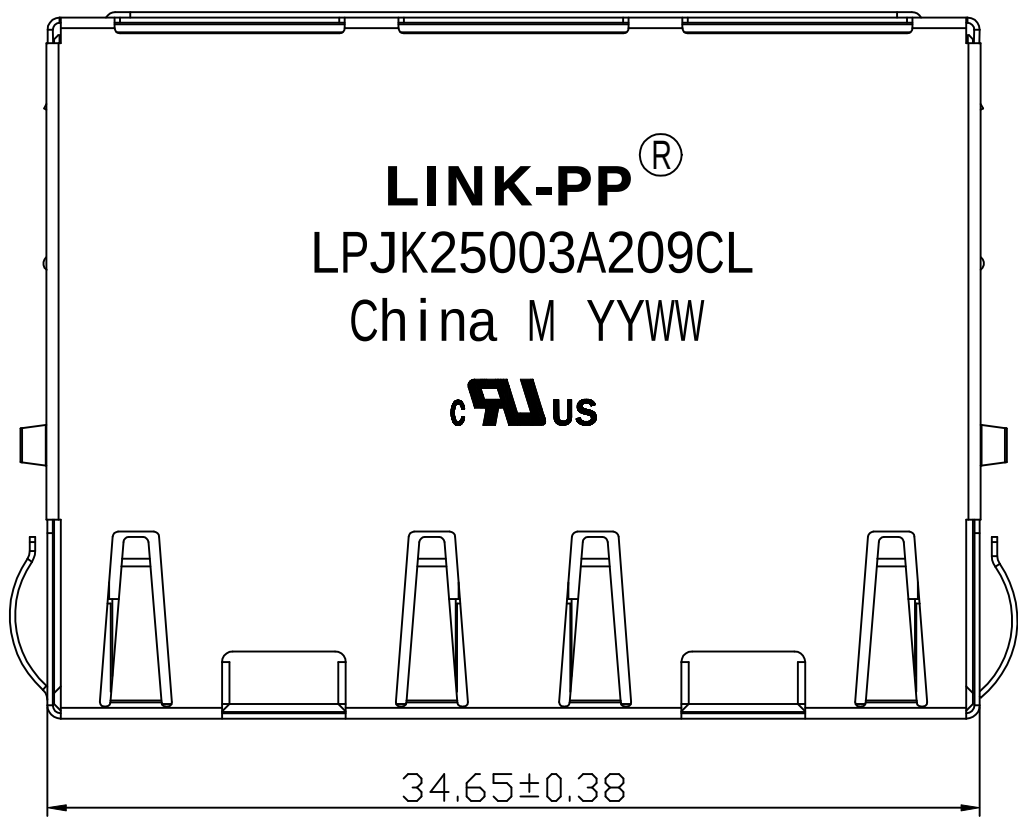
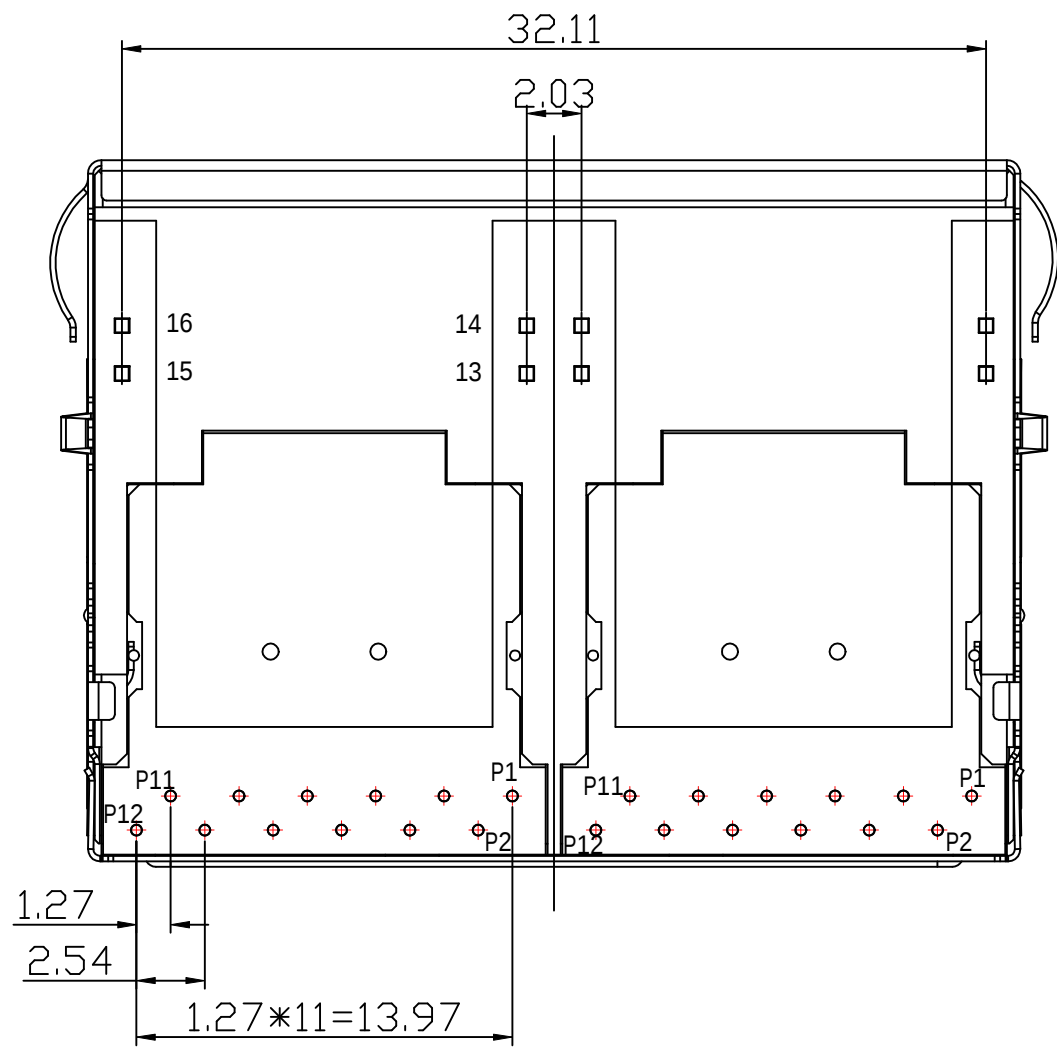
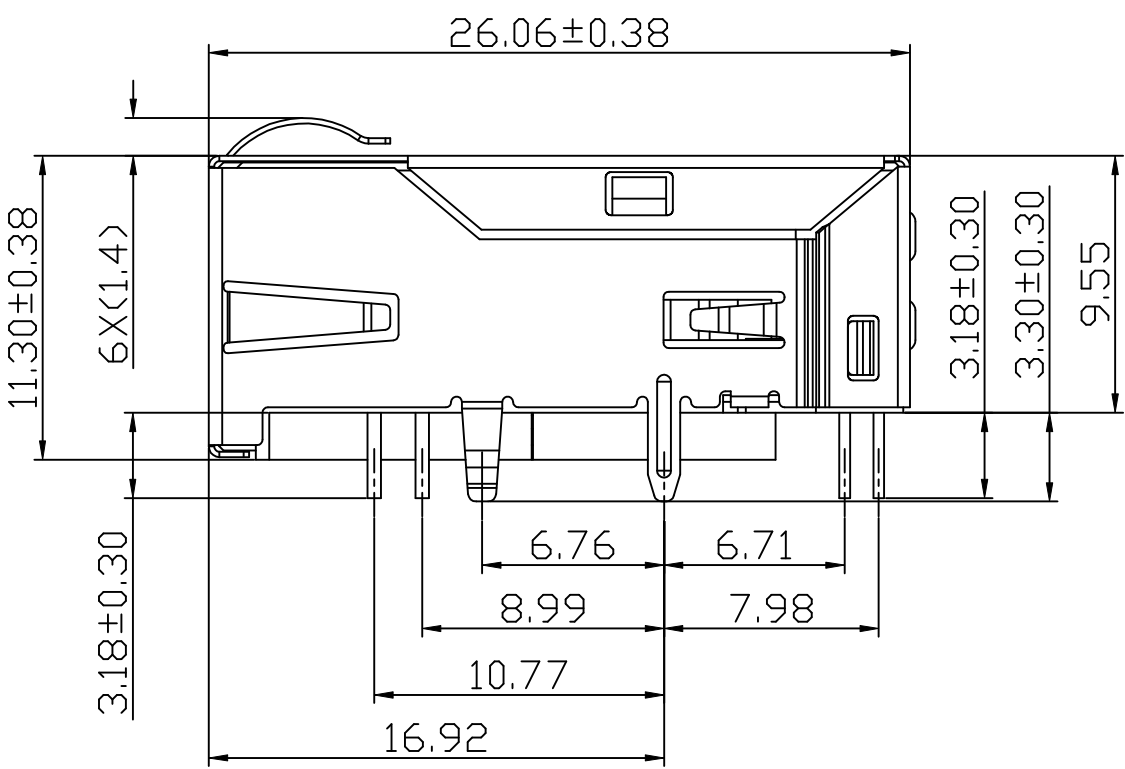
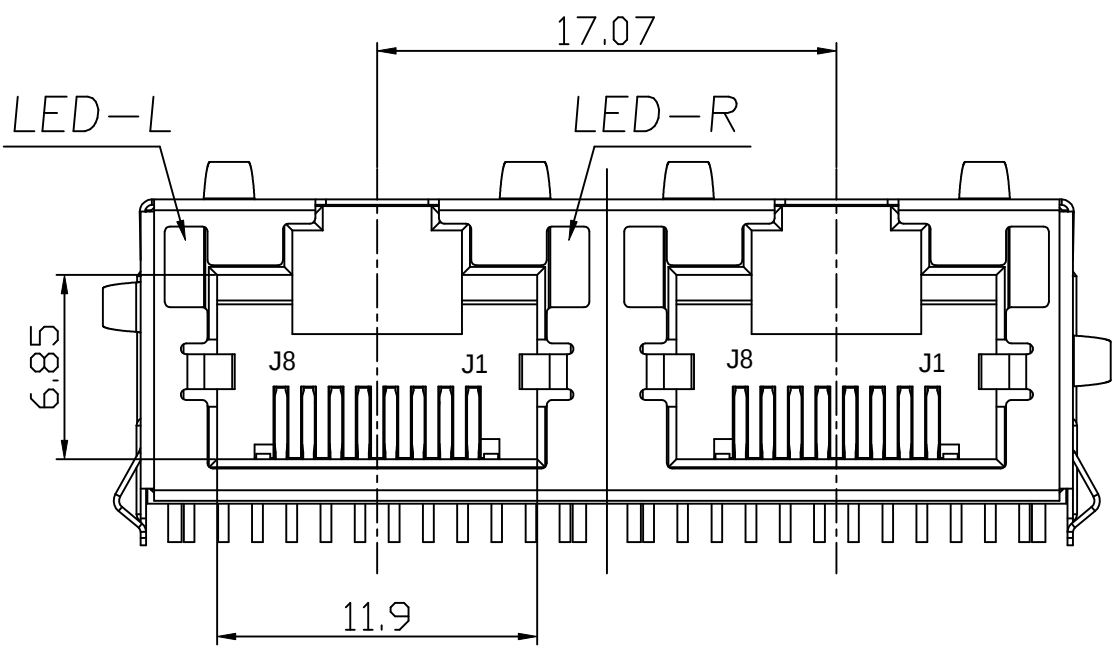
RIGHT LED

EMITTING COLOR	λ_p (nm)	VF @IF=20mA	IR @VR=5V
AMBER	607	1.8~2.2V	10 μ A max
GREEN	565	1.8~2.2V	10 μ A max

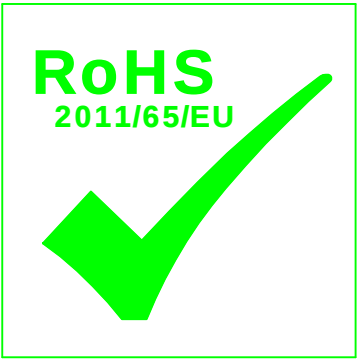
X.X	± 0.30	APPD: TOM	LINK-PP INT'L TECHNOLOGY CO., LIMITED		
X.XX	± 0.25	CHKD: JAMES	TITLE: RJ45 CONNECTOR WITH 1000 BASE-T INTEGRATED MAGNETICS & WITH EMI SPRING FINGER & LED		
X.XXX	± 0.15	DR: JULY			
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO.: LPJK25003A209CL		
		SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO.: LP23111512



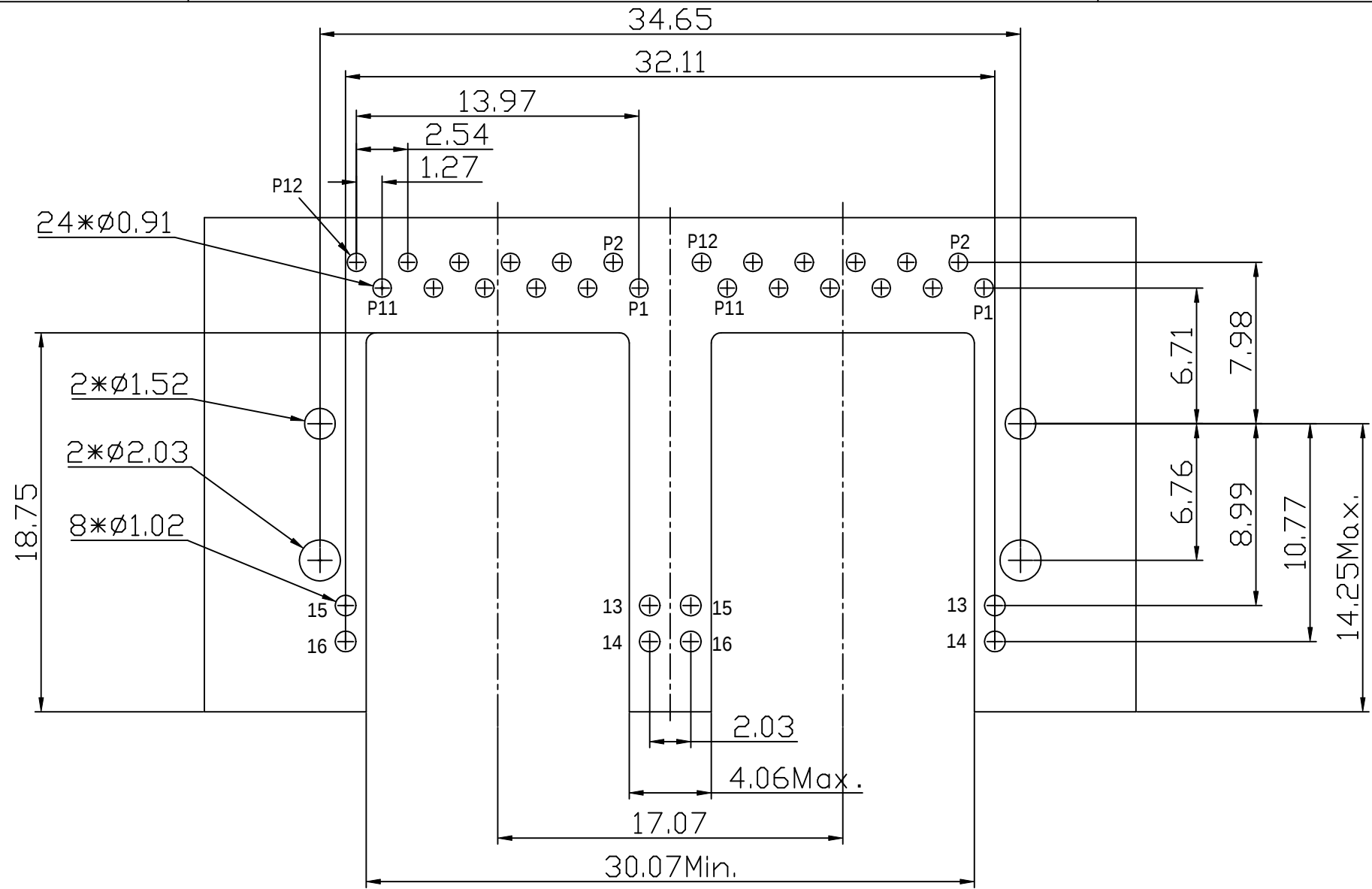
Mechanical:



Recommended Panel Layout



REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2023-11-15	



Recommended PCB Layout
(Tol: ±0.05, T=1.60±0.15mm)

NOTES:

- 1.DESIGNED TO SUPPORT APPLICATION,SUCH AS SOHO(ADSL MODEMS),LAN-ON-MOTHERBOARD(LOM),HUB AND SWITCHES.
- 2.MEETS IEEE 802.3 SPECIFICATION
- 3.CONNECTOR MATERIALS:
HOUSING:LCP E130I UL94V-0 BLACK UL94V-0
INSULATOR:LCP E130I UL94V-0 BLACK
OUTPUT CONTACT: PHOSPHOR BRONZE C5191,THICKNESS:0.30MM
INPUT CONTACT: PHOSPHOR BRONZE C51000: Ø0.40MM
SHIELD: SUS304 THICKNESS:0.20MM
FINISH:
OUTPUT CONTACT: 6u" GOLD MIN. PLATED ON CONTACT AREA ; 100u" Tin MIN. PLATED ON SOLDER TAIL AREA; UNDERPLATING 50u" Ni MIN. OVERALL
INPUT CONTACT:100u" Tin MIN. PLATED OVER 50u" Ni MIN. OVERALL
SHELL: 50u" MIN. Ni PLATED OVERALL
- 4.WAVE SOLDER TIP TEMPERATURE: 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 1000 BASE-T INTEGRATED MAGNETICS & WITH EMI SPRING FINGER & LED	
ANGLES	±1°	UNIT: mm	PART NO.: LPJK25003A209CL	
	SCALE: 2/1	SHEET: 2/2	REV: A	DWG NO.: LP23111512