

Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2023-03-26	

ELECTRICAL SPECIFICATIONS @25°C

- 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(dB Min):

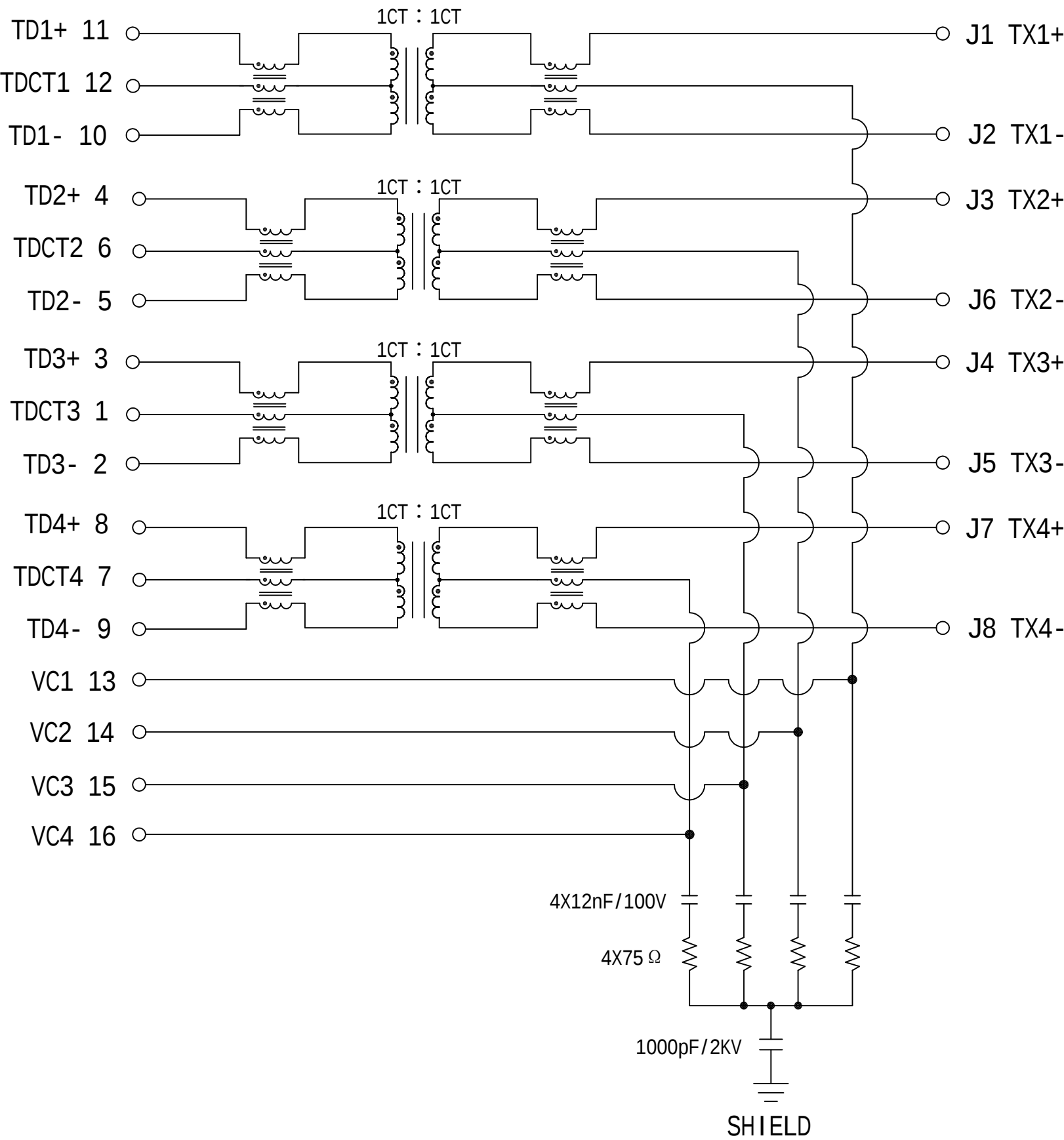
1-30MHz: -1630-60MHz: -1260-80MHz: -1080-100MHz: -8
- 5.Cross Talk(dB Min):

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

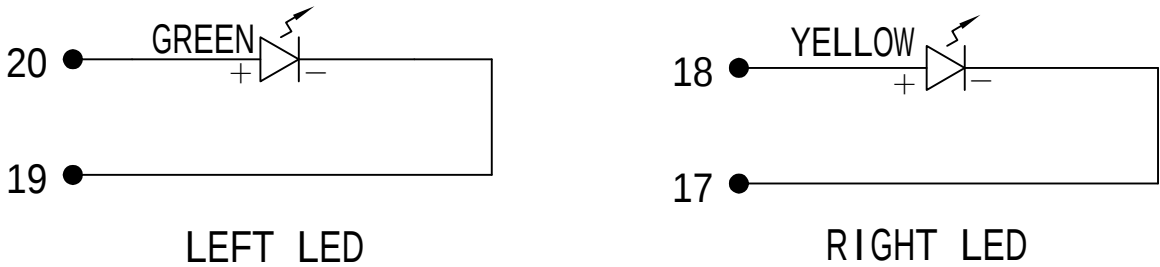
1-100MHz: -30
- 7.Balance DC Line current:

600mA MAX,@57VDC Continuous;
- 8.Isolation PHY SIDE To Line SIDE : 1500Vrms
- 9.Operating Temperature Range: -40°C~+85°C.

PC BOARD CONNECTIONS

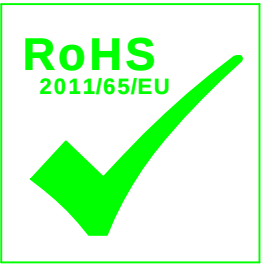


RJ45 CONNECTOR



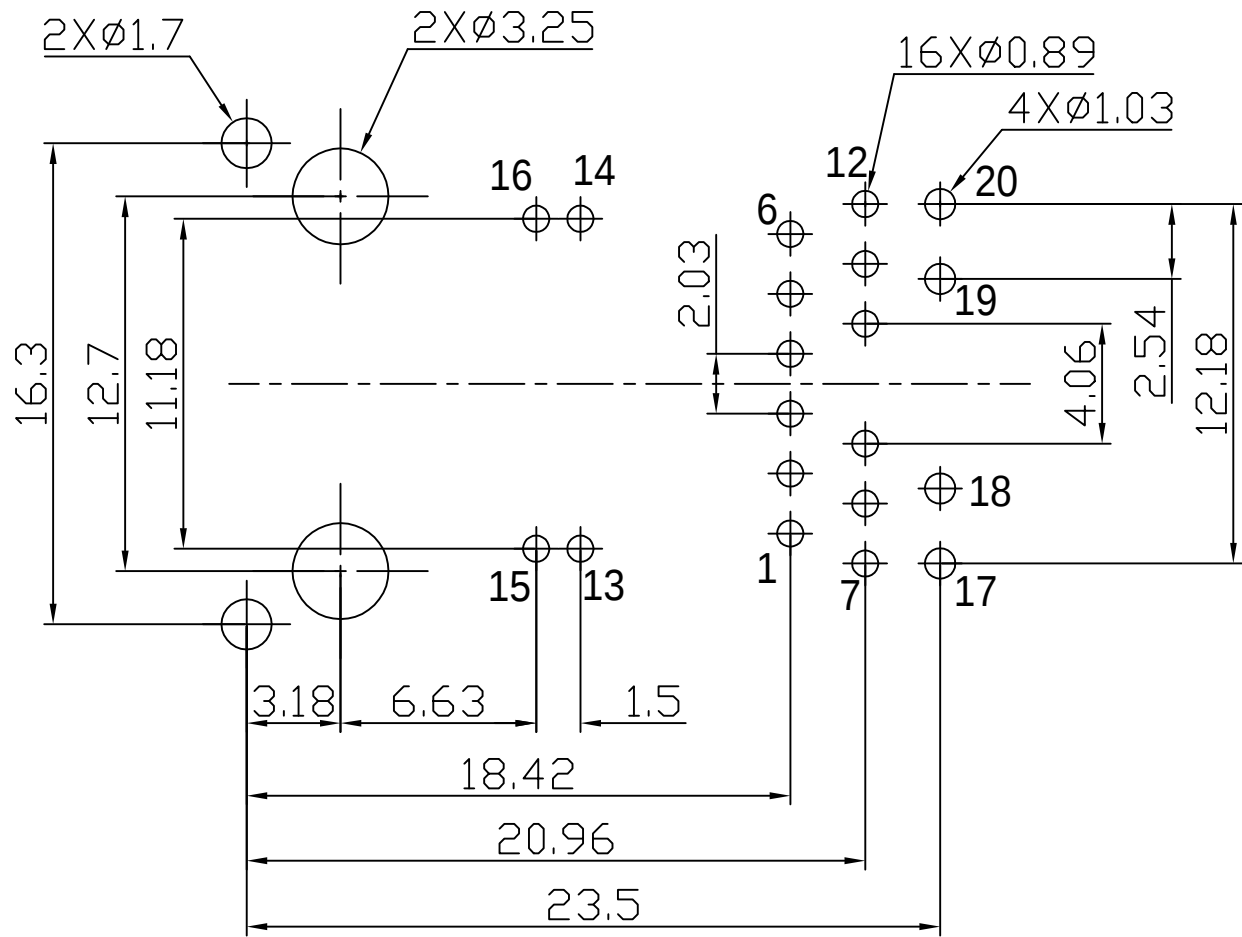
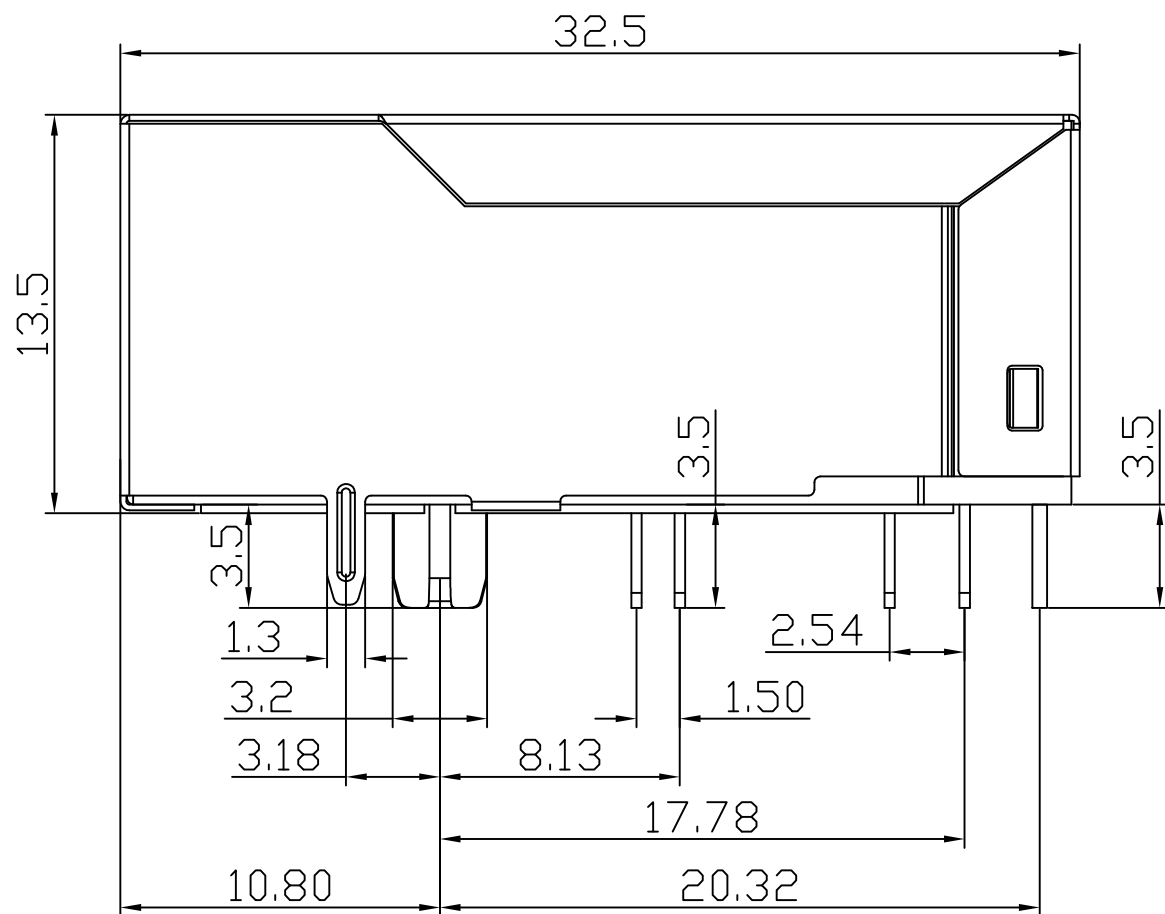
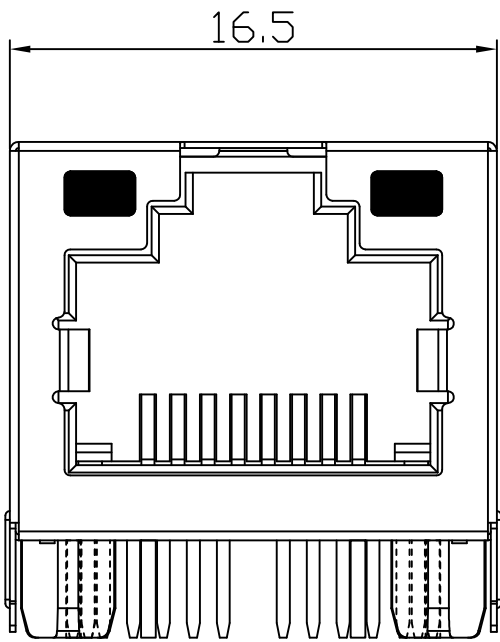
EMITTING COLOR	λ p(nm)	VF @IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max

X.X	±0.30	APPD: TOM	LINK-PP INT'L TECHNOLOGY CO., LIMITED	
X.XX	±0.25	CHKD: JAMES	TITLE: RJ45 CONNECTOR WITH 1000 BASE-T INTEGRATED MAGNETICS & WITHOUT EMI SPRING FINGER & WITH LED FOR POE+ APPLICATION	
X.XXX	±0.15	DR: LEO		
ANGLES	±1°	UNIT: mm	PART NO.:	LPJK6069BHNL
		SCALE: 2/1	SHEET: 1/2	REV: A6
			DWG NO.:	LP23032636

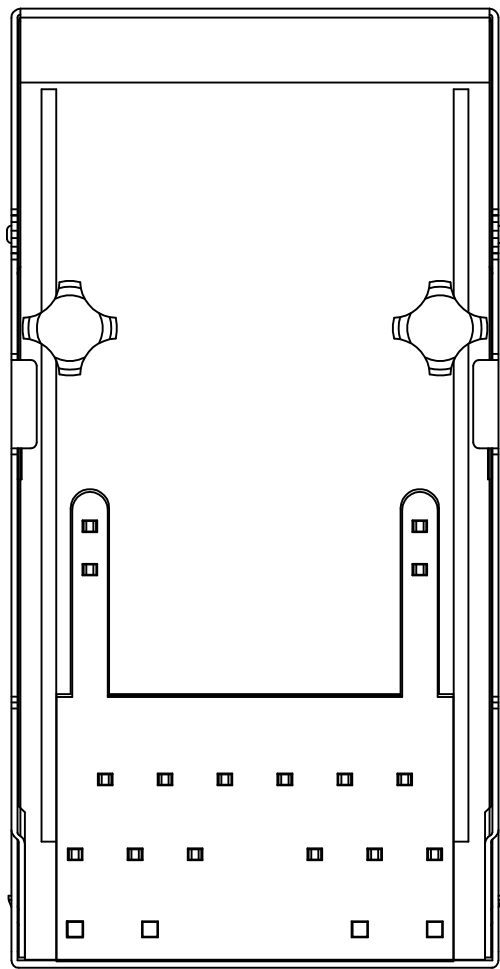


Mechanical :

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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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