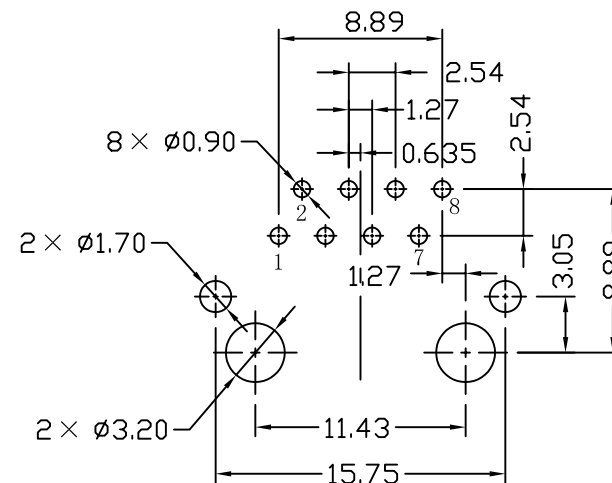
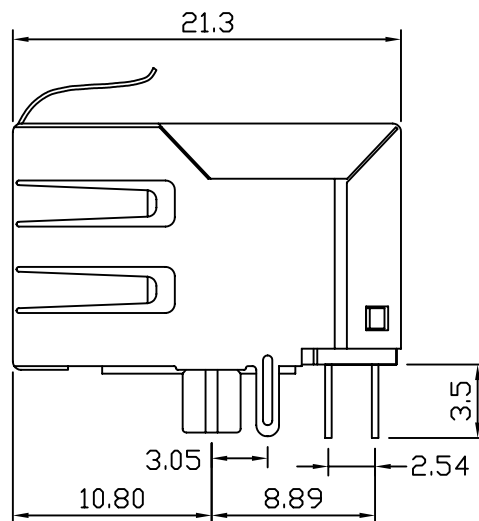
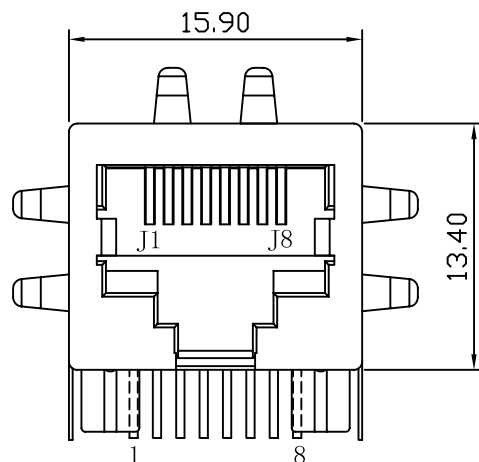
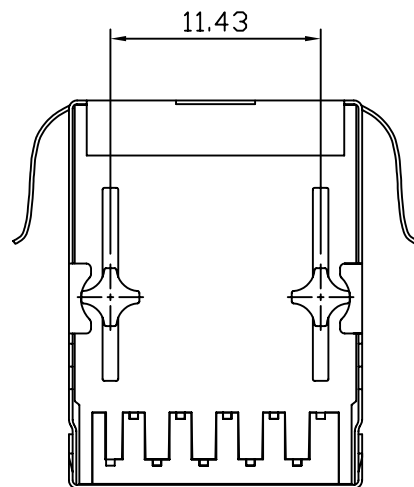


# Mechanical:



SUGGESTED PCB LAYOUT (TOP VIEW)



## 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: Thermoplastic UL94V-0  
Contact/Shield: Copper alloy  
Shield plating: Nickel  
Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 265°C Max  
Wave solder tip temperature time: 5 Sec Max
5. UL Certification: File Number E321120

**RoHS**  
2002/95/EC

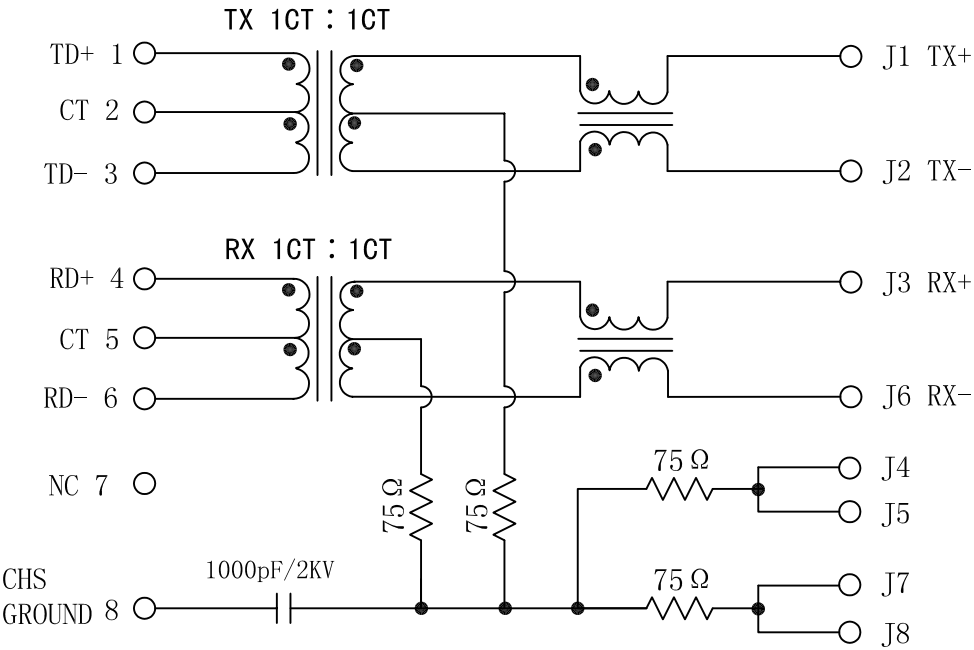


X:X	±0.30	APPD:	Trxcom		
X:XX	±0.20	CHKD:	ShenZhen Trxcom Electronics Co., ltd		
X:XXX	±0.05	DR: C. H. Y	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics		
ANGLES	±1°	UNIT: mm	PART NO.: TRJ0012CNL		
		SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO.: TRC10040602

Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2010/04/06	

PCB SIDE TO PHY



CABLE SIDE

ELECTRICAL SPECIFICATIONS @25°C

- Turn Ratio( $\pm 3\%$ ):  
TX=1CT : 1CT      RX=1CT : 1CT
- Inductance OCL: 350uH MIN  
@100KHz/0.1V, 8mA DC Bias
- Insertion Loss:  
-1.0dB MAX @ 1.0-100MHz
- Return Loss:  
-20dB MIN @ 1-10MHz  
-16dB MIN @ 10-30MHz  
-12dB MIN @ 30-60MHz  
-10dB MIN @ 60-100MHz
- Cross talk:  
-40dB MIN @ 1-30MHz  
-35dB MIN @ 30-60MHz  
-30dB MIN @ 60-100MHz
- Common Mode Rejection:  
-30dB MIN @ 1-50MHz  
-20dB MIN @ 50-150MHz
- Hipot Test:1500Vrms MIN
- Operating Temperature Range:0°C TO 70°C



X:X $\pm 0.30$	APPD:	Trxcom		
X:XX $\pm 0.20$	CHKD:	ShenZhen Trxcom Electronics Co., ltd		
X:XXX $\pm 0.05$	DR:   C. H. Y	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics		
ANGLES $\pm 1^\circ$	UNIT:   mm	PART NO. :   TRJ0012CNL		
	SCALE:   2/1	SHEET:   2/2	REV:   A	DWG NO. :   TRC10040602