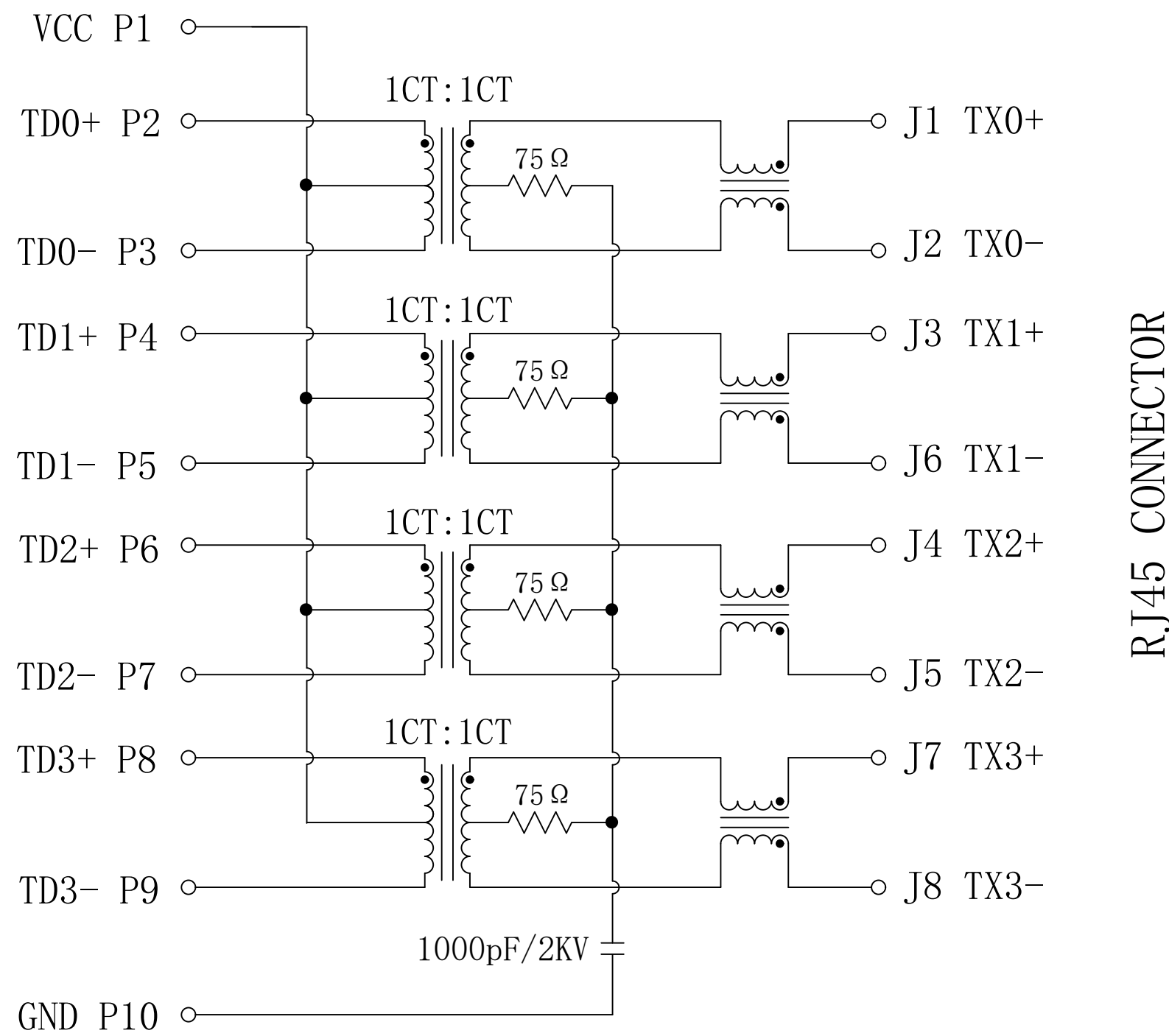


Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2010/06/17	

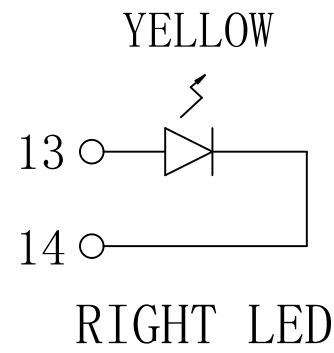
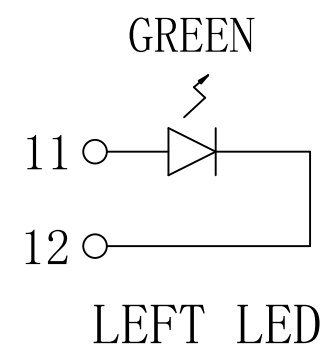
PC BOARD CONNECTIONS



ELECTRICAL SPECIFICATIONS@25°C

- 1. Turn Ratio($\pm 2\%$):
Pri:Sec = 1CT:1CT
- 2. Inductance OCL: 350uH MIN
@100KHz/0.1V, 8mA DC Bias
- 3. Insertion Loss:
-1.0dB MAX @1-65MHz
- 4. Return Loss:
-20dB MIN @1-10MHz
-16dB MIN @10-30MHz
-12dB MIN @30-60MHz
-10dB MIN @60-100MHz
- 5. Cross talk:
-40dB MIN @1-30MHz
-35dB MIN @30-60MHz
-30dB MIN @60-100MHz
- 6. Common Mode Rejection:
-30dB MIN @1-50MHz
-20dB MIN @50-150MHz
- 7. Isolation PHY SIDE To Line SIDE : 1500Vrms
- 8. Operating Temperature: 0°C to 70°C.

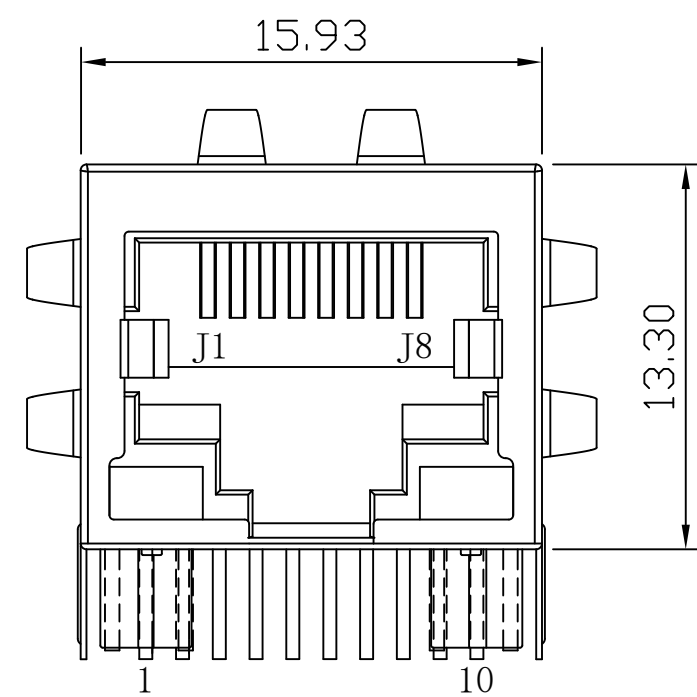
Emitting Color	λ_p (nm)	V _F @I _F =20mA	I _R @V _R =5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max



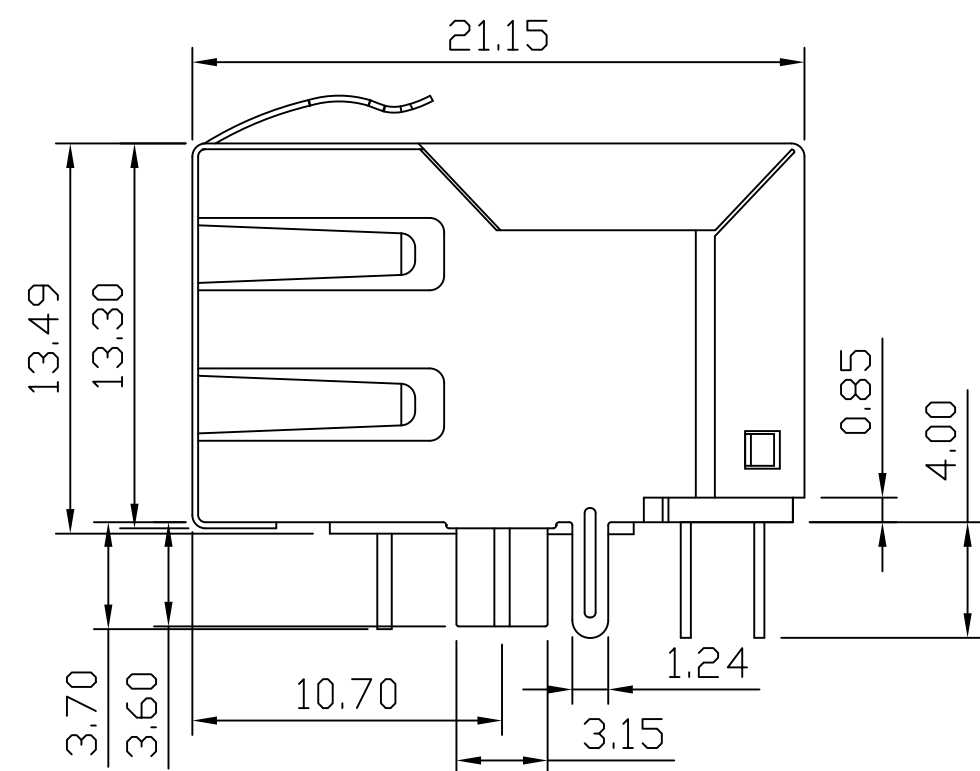
X:X	± 0.30	APPD: TOM	Summit Electronics BV	
X:XX	± 0.25	CHKD: JAMES		
X:XXX	± 0.05	DR: LEO	TITLE: RJ45 Connector with 1000 Base-T Integrated Magnetics	
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO. : SRJ101010020	
	SCALE: 2/1	SHEET: 1/2	REV: A6	

Mechanical:

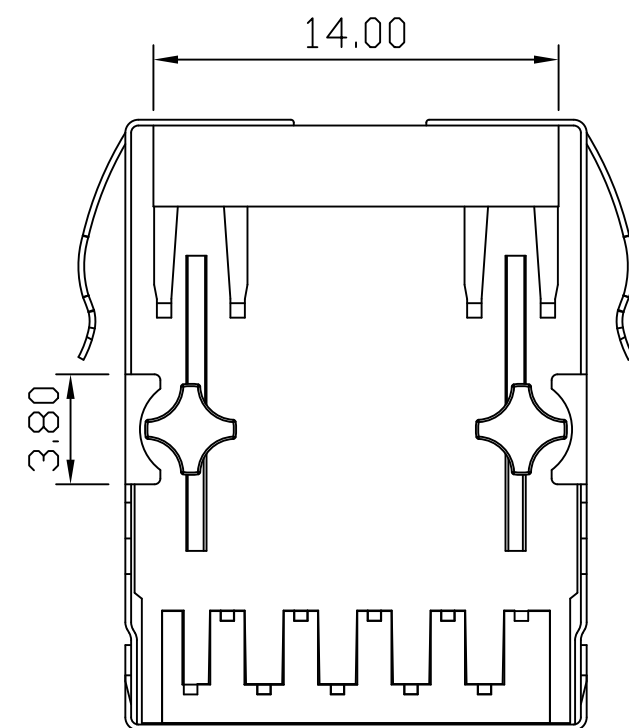
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2010/06/17	



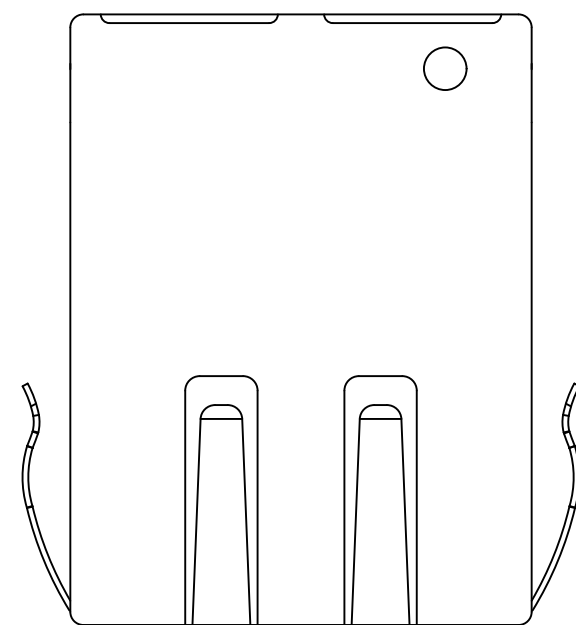
Front Side View



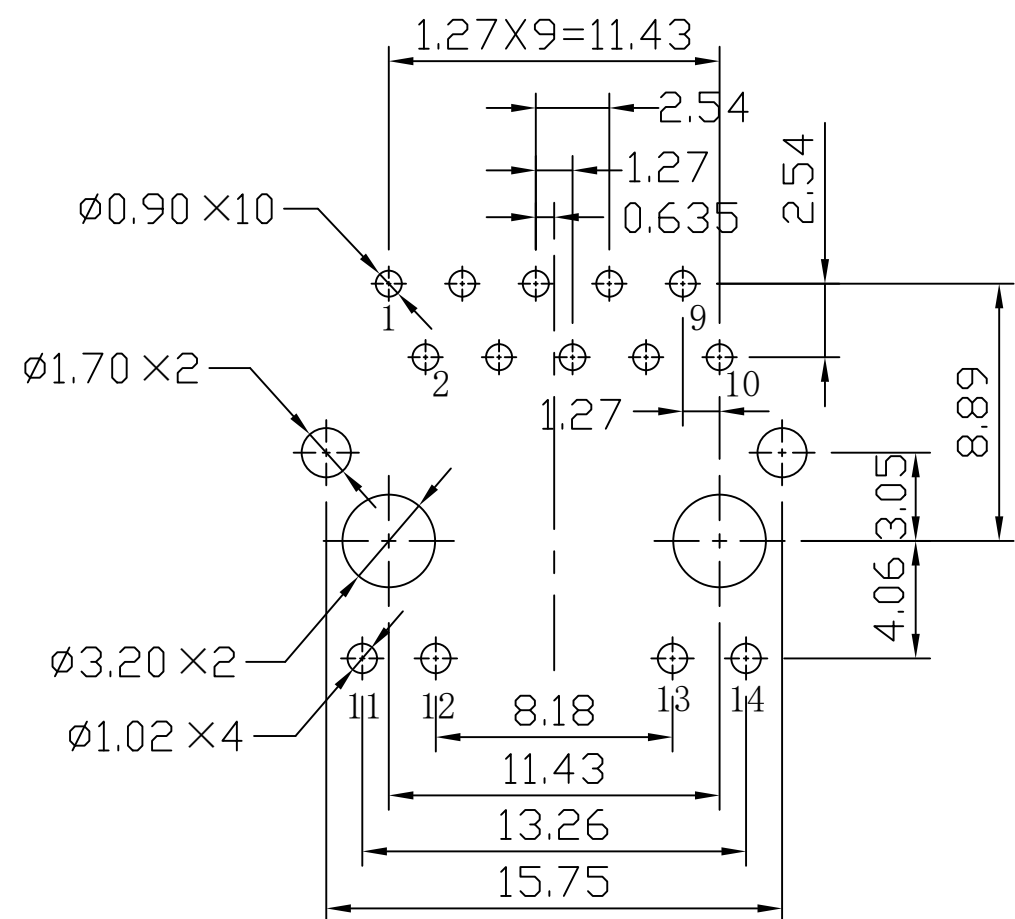
Left Side View



Bottom Side View



Top Side View



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 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: 250°C, 5 Sec.
5. UL Certificate



X:X	±0.30	APPD:	TOM	Summit Electronics BV	
X:XX	±0.25	CHKD:	JAMES		
X:XXX	±0.05	DR:	LEO	TITLE: RJ45 Connector with 1000 Base-T Integrated Magnetics	
ANGLES	±1°	UNIT:	mm	PART NO. : SRJ101010020	
	SCALE:	2/1	SHEET:	2/2	REV: A6