

RJ45 Ethernet Connector

SRJ101010020



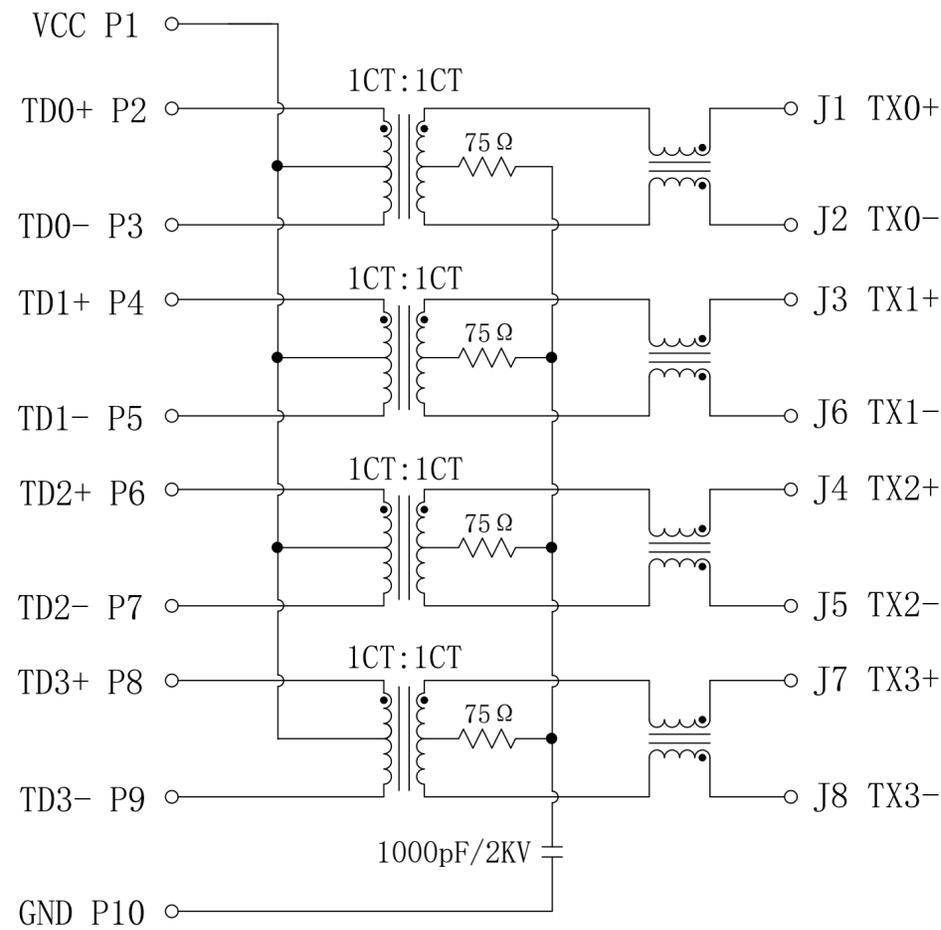
Specifications Overview

Points	1×1 RJ45 MagJack, side entry (right angle)
POE	NON-PoE design
Orientation	90° Angle (Right)
Speed	10/100/1000 Base-T
LED configuration	Green / Yellow LED indicators
Shielding	Shielded with EMI tabs
Operating Temperature	0°C to +70°C
Mounting	Through-hole
Latch	Down
Cores to Port	8

Schematic:

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

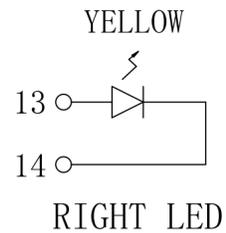
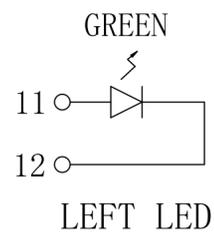
PC BOARD CONNECTIONS



RJ45 CONNECTOR

ELECTRICAL SPECIFICATIONS@25°C

- Turn Ratio($\pm 2\%$):
Pri:Sec = 1CT:1CT
- Inductance OCL: 350uH MIN
@100KHz/0.1V, 8mA DC Bias
- Insertion Loss:
-1.0dB MAX @1-65MHz
- 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
- Isolation PHY SIDE To Line SIDE : 1500Vrms
- Operating Temperature: 0°C to 70°C.

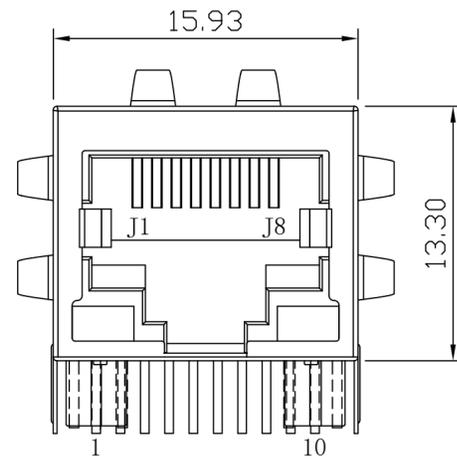


Emitting Color	λ_p (nm)	V _F @I _F =20mA	I _R @V _R =5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max

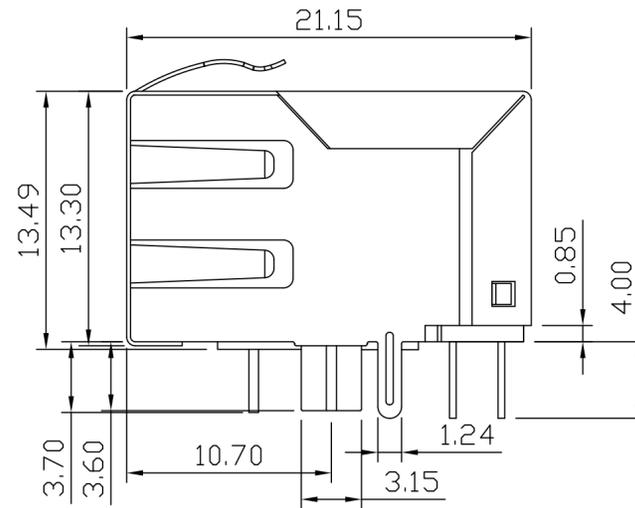
X:X	± 0.30	APPD: TOM	Summit Electronics BV	
X:XX	± 0.25	CHKD: JAMES		
X:XXX	± 0.05	DR: LEO	TITLE: RJ45 Connector with 1000 Base-T Integrated Magnetics	
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO. : SRJ101010020	
	SCALE: 2/1	SHEET: 1/2	REV: A6	

Mechanical:

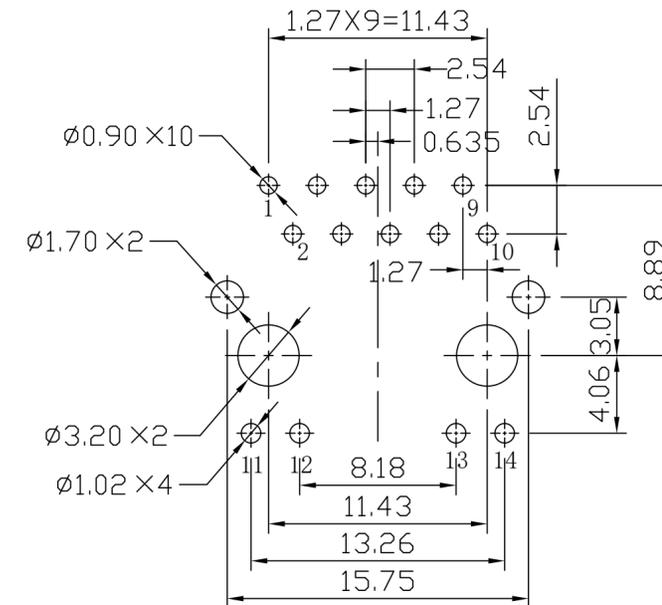
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2010/06/17	



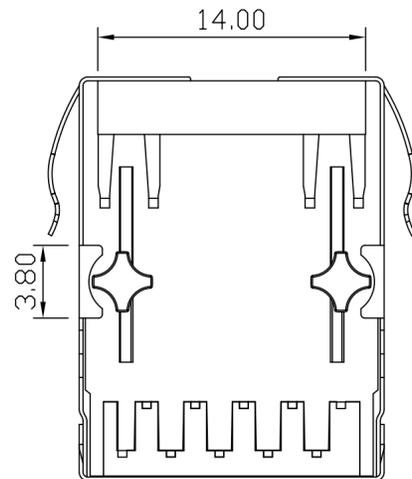
Front Side View



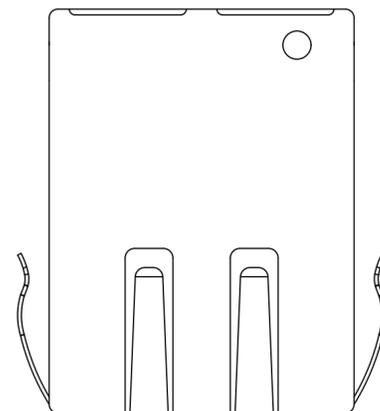
Left Side View



Suggested PCB Layout (Top View)



Bottom Side View



Top Side 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