

RJ45 Ethernet Connector

SRJ101250010

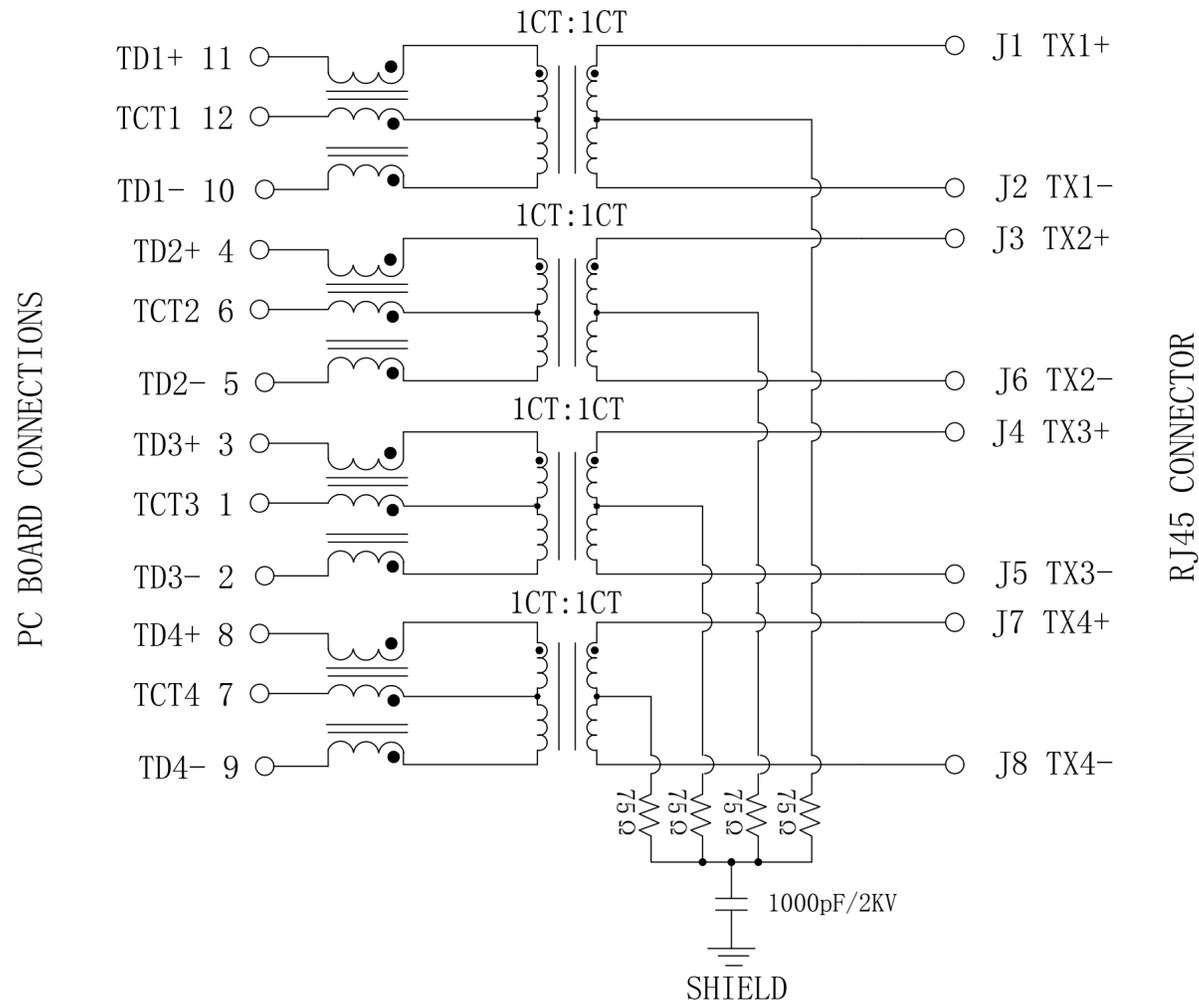


Specifications Overview

Points	1×1 RJ45 MagJack, side entry (right angle)
POE	NONE-PoE design
Orientation	90° Angle (Right)
Speed	2.5G Base-T
LED configuration	Green/Yellow LED indicators
Shielding	Shielded with EMI tabs
Operating Temperature	0°C to +70°C
Mounting	Through-hole
Latch	UP
Cores to Port	8

Schematic:

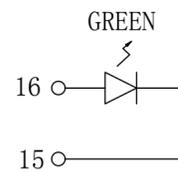
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2023-03-21	



ELECTRICAL SPECIFICATIONS @25°C

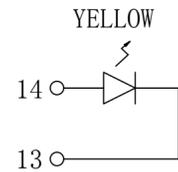
- Turn Ratio : 1CT:1CT $\pm 5\%$
- OCV: 200uH Min @100KHz , 0.1V
- Insertion Loss (dB Max):
 1-100MHz: -1.0 100-125MHz: -1.5
- Return Loss(dB Min):
 1-30MHz: -16 30-100MHz: -12
 100-150MHz: -10
- Cross Talk:
 1-125MHz: -25dB Min.
- Common Mode Rejection(dB Min):
 1-125MHz: -30
- Common Mode to Differential Mode Rejection(dB Min):
 1-100MHz: -30 100-125MHz:-25.
- Isolation PHY SIDE To Line SIDE : 1500Vrms
- Operating Temperature Range: 0°C~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



LEFT LED

LED POLARITY		COLOR
PIN 16	PIN 15	
+	-	GREEN



RIGHT LED

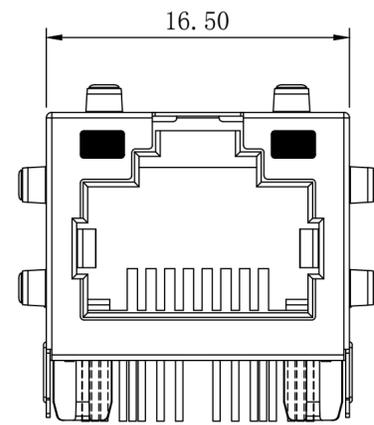
LED POLARITY		COLOR
PIN 14	PIN 13	
+	-	YELLOW



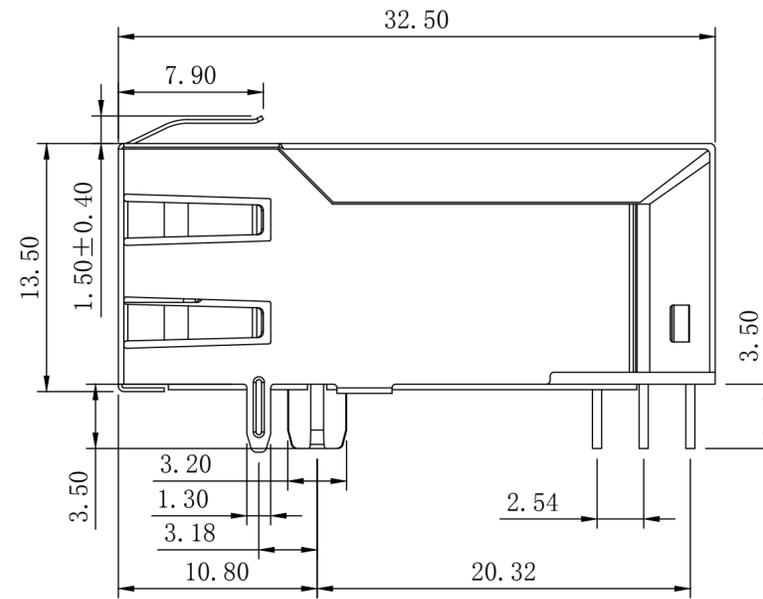
X:X ± 0.30	APPD: TOM	Summit Electronics BV		
X:XX ± 0.25	CHKD: JAMES			
X:XXX ± 0.05	DR: LEO			
ANGLES $\pm 1^\circ$	UNIT: mm	TITLE: RJ45 Connector with 2.5G Base-T Integrated Magnetics		
		PART NO. : SRJ101250010		
	SCALE: 2/1	SHEET: 1/2	REV: A6	DWG NO. : LP23032101

Mechanical:

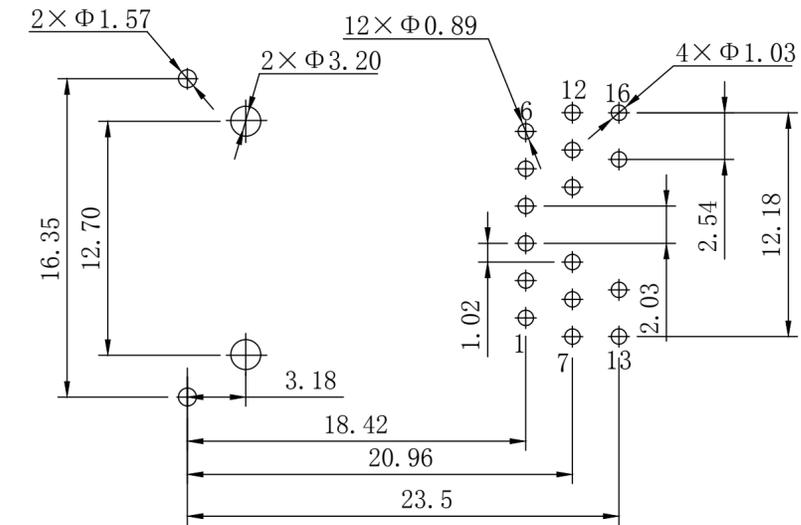
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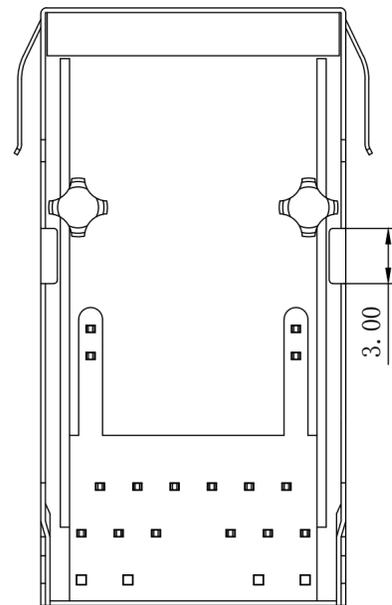
Front Side View



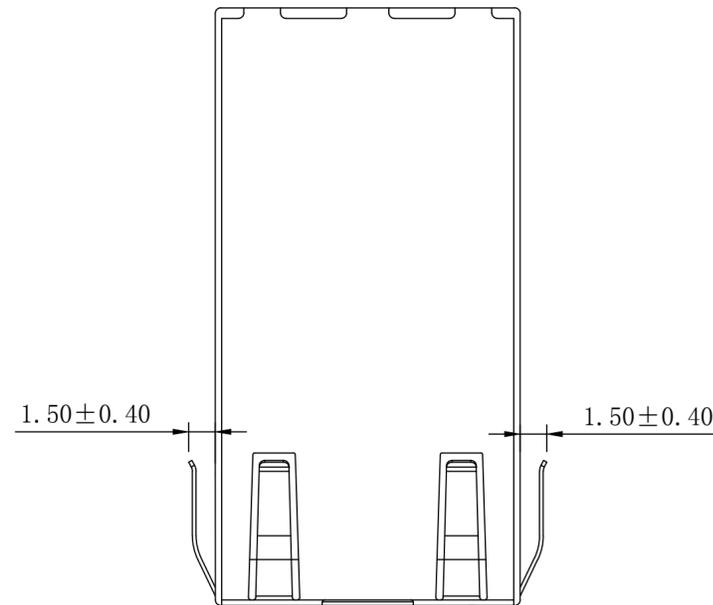
Left Side View



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 IEEE 802.3af specification
3. Connector Materials:
 Housing Material: Thermoplastic PBT+30%G.F UL94V-0
 Contact Material: Phosphor Bronze C5210R-EH Thickness=0.35mm
 Pins: Brass C2680R-H Thickness=0.35mm
 Shield: SUS 304 1/2EH Thickness=0.2mm
 Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 250°C, 5 Sec.

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 2.5G Base-T Integrated Magnetics		
ANGLES	±1°	UNIT:	mm			PART NO. :
	SCALE:	2/1	SHEET:	2/2	REV: A6	DWG NO. :