

RJ45 Ethernet Connector

SRJ101100010

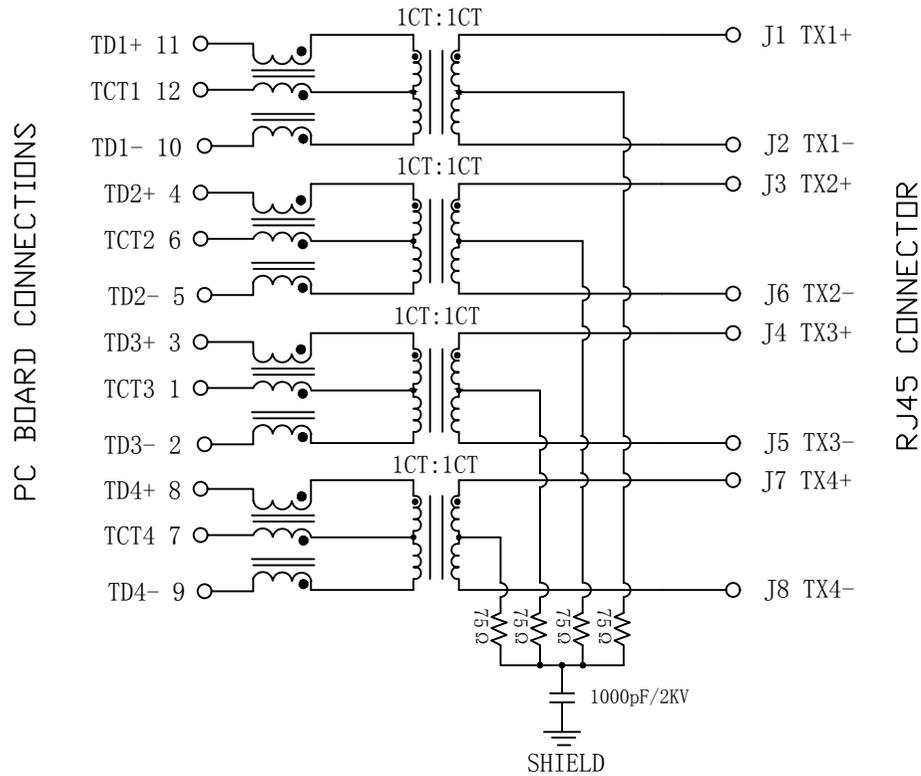


Specifications Overview

Points	1×1 RJ45 MagJack, side entry (right angle)
POE	NONE-PoE design
Orientation	90° Angle (Right)
Speed	10G 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:

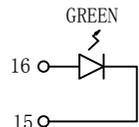
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A6	REL		2023-03-19	



Electrical Specifications @25°C

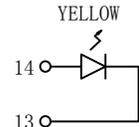
- Turns Ratio ($\pm 2\%$):
Pri:Sec = 1CT:1CT
- 0CL:
200uH Min @100KHz/0.1Vrms
- Insertion Loss (dB Max):
0.1-10MHz: -1.0 100-650MHz: -3.0
- Return Loss (dB Min):
1-40MHz: -20 40-400MHz: -14
400-500MHz: -10
- Crosstalk (dB Min):
1-500MHz: -30
- CMDR (dB Min):
1-500MHz: -25
- Hi-Pot: 1500Vrms
- Operating Temperature: 0°C ~ 70°C.

Emitting Color	λ_p (nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.2V	10 μ A max
YELLOW	585	1.8~2.2V	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	PART NO.:	SRJ101100010
	SCALE: 2/1	SHEET: 1/2	REV: A6	DWG NO.: LP23031931

Summit Electronics BV

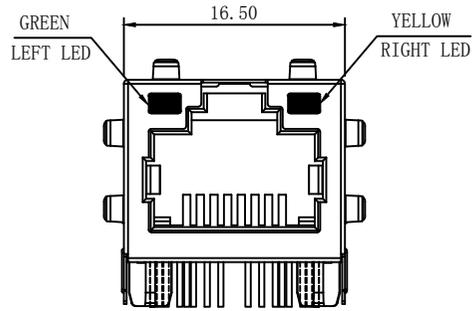
TITLE: RJ45 Connector with 10G Base-T Integrated Magnetics

PART NO.: SRJ101100010

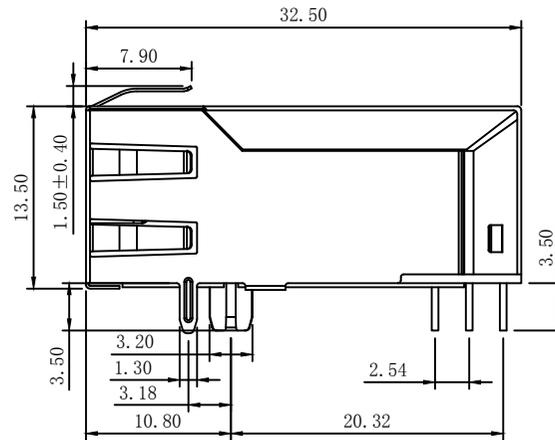
SCALE: 2/1 SHEET: 1/2 REV: A6 DWG NO.: LP23031931

Mechanical :

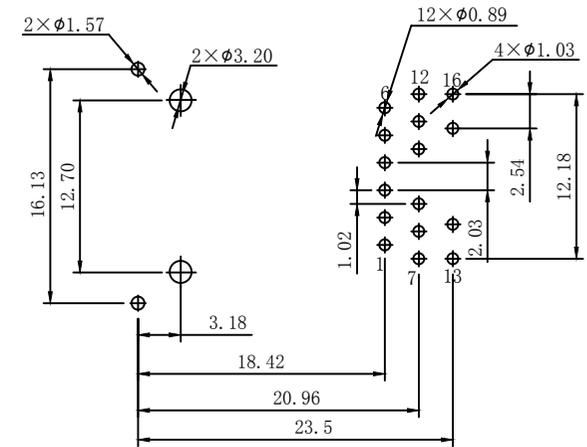
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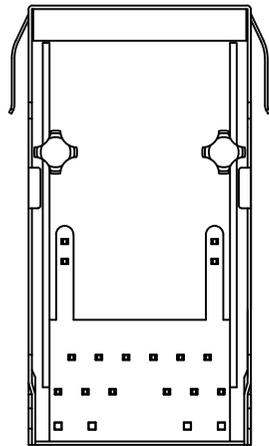
Front Side View



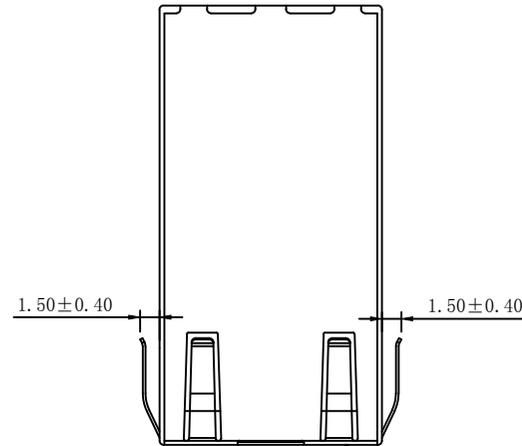
Left Side View



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 802.3 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 10G Base-T Integrated Magnetics
ANGLES ±1°	UNIT: mm	PART NO. : SRJ101100010
	SCALE: 2/1	SHEET: 2/2
	REV: A6	DWG NO. : LP23031931