

RJ45 Ethernet Connector

SRJ101251010



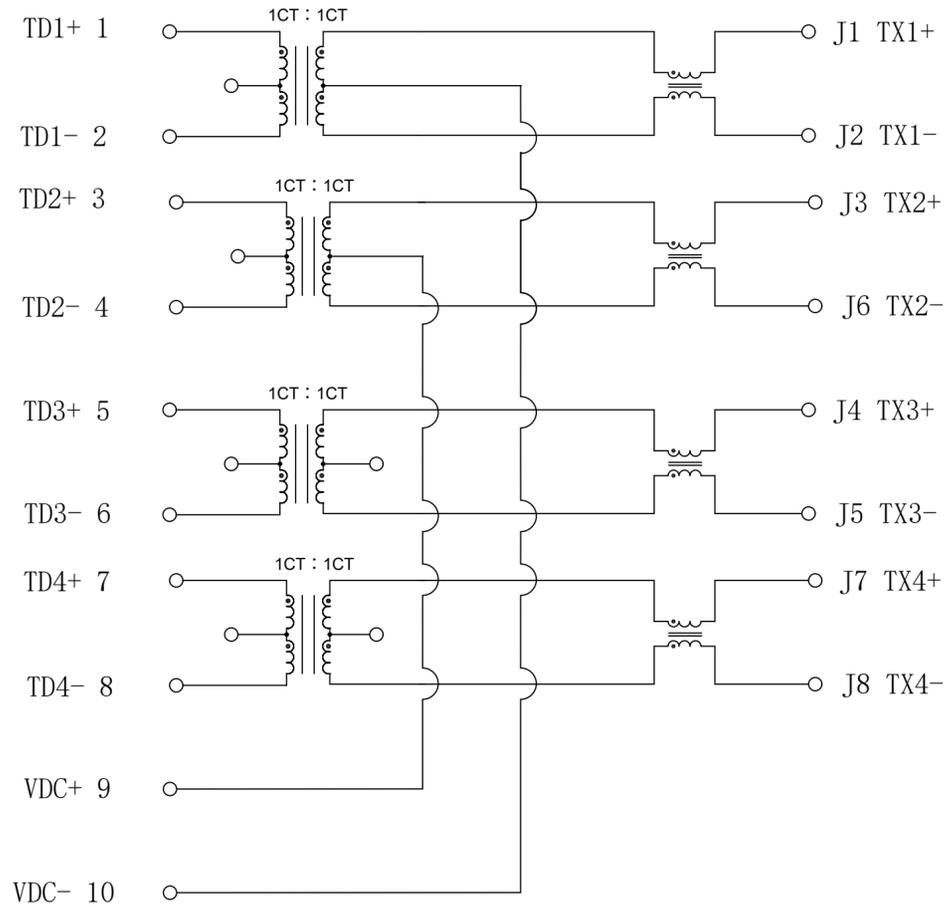
Specifications Overview

Points	1×1 RJ45 MagJack, side entry (right angle)
POE	PoE+
Orientation	90° Angle (Right)
Speed	2.5G Base-T
LED configuration	Orange/Green/Yellow LED indicators
Shielding	Shielded without EMI tabs
Operating Temperature	-40°C to +85°C
Mounting	Through-hole
Latch	UP
Cores to Port	8

Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2021/11/07	

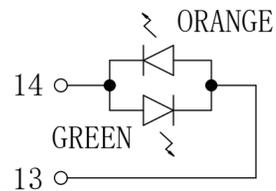
PCB SIDE



CABLE SIDE

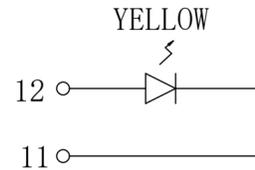
ELECTRICAL SPECIFICATIONS @25°C

- Turn Ratio : 1CT:1CT $\pm 5\%$
- OCL: 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.
- Balance DC Line current:
 600mA MAX, @57VDC Continuous;
- INPUT-OUTPUT ISOLATION:
 POE HIPOT TEST:1000V/DC 1mA. Max
- Operating Temperature Range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$.



LEFT LED

LED POLARITY		COLOR
PIN 14	PIN 13	
+	-	GREEN
-	+	ORANGE



RIGHT LED

LED POLARITY		COLOR
PIN 12	PIN 11	
+	-	YELLOW

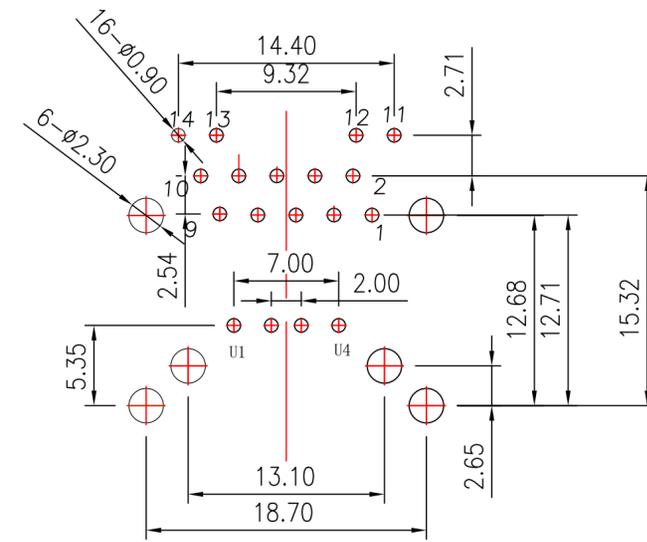
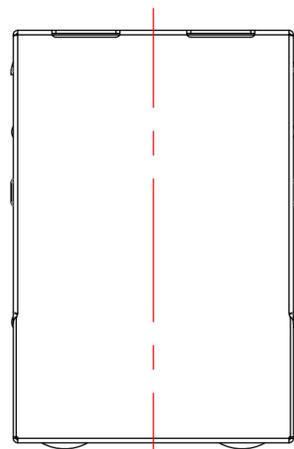


Emitting Color	$\lambda_p(\text{nm})$	V _F @I _F =20mA	I _R @V _R =5V
Orange/Green	610/570	1.8~2.6V	10 μA max
Yellow	585	1.8~2.6V	10 μA max

X:X ± 0.30	APPD: TOM	Summit Electronics BV		
X:XX ± 0.25	CHKD: JAEMS			
X:XXX ± 0.05	DR: LEO			
ANGLES $\pm 1^{\circ}$	UNIT: mm	TITLE: RJ45 2.5G Base-TX Jack/Dual USB Combo For PoE+ Application		
		PART NO. : SRJ101251010		
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO. :

Mechanical:

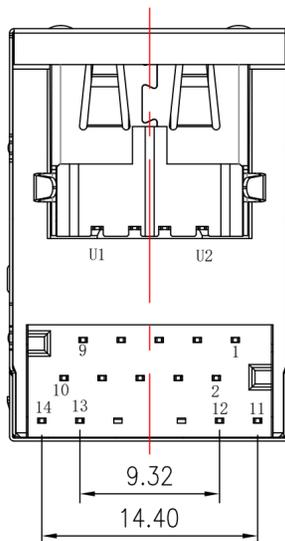
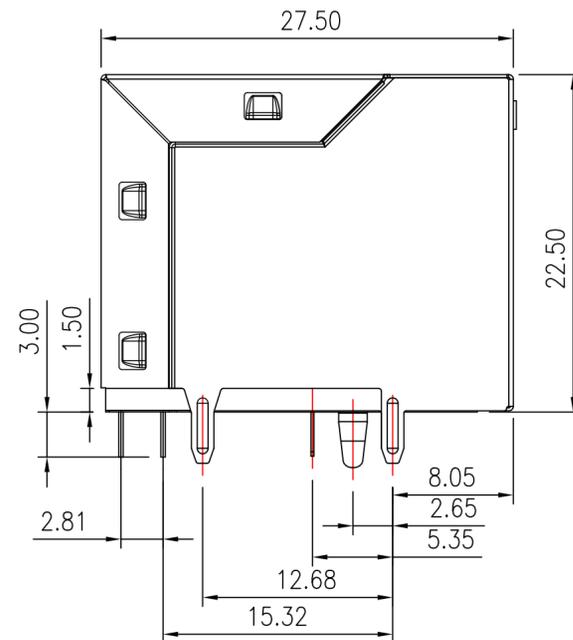
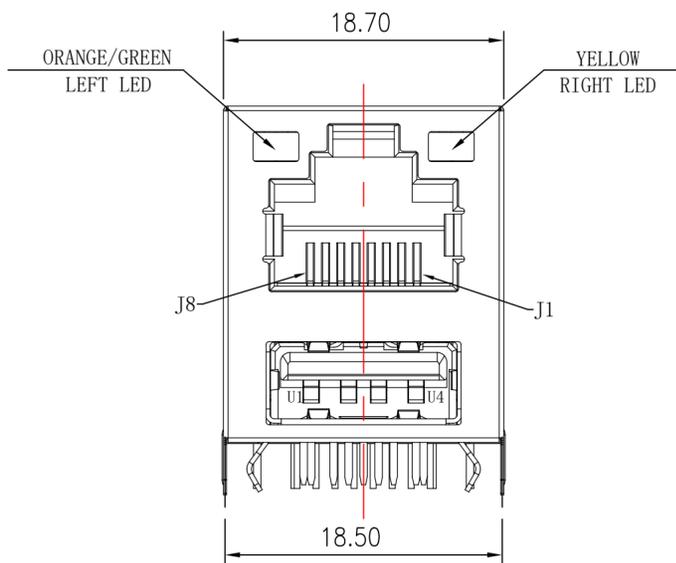
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RECOMMEND PCB LAYOUT
 ALL TOLERANCE ARE: $\pm 0.05\text{mm}$
 (TOP VIEW) PCB THICKNESS=1.6mm

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 PBT UL94V-0
 Contact/Shield: Copper alloy
 Shield plating: Nickel
 Contact plating: Gold 6 micro-inches min. In contact area.
 USB Contact plating: Gold flash.
4. Wave solder tip temperature: 250°C, 5 Sec.



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