

RJ45 Ethernet Connector

SRJ101252010

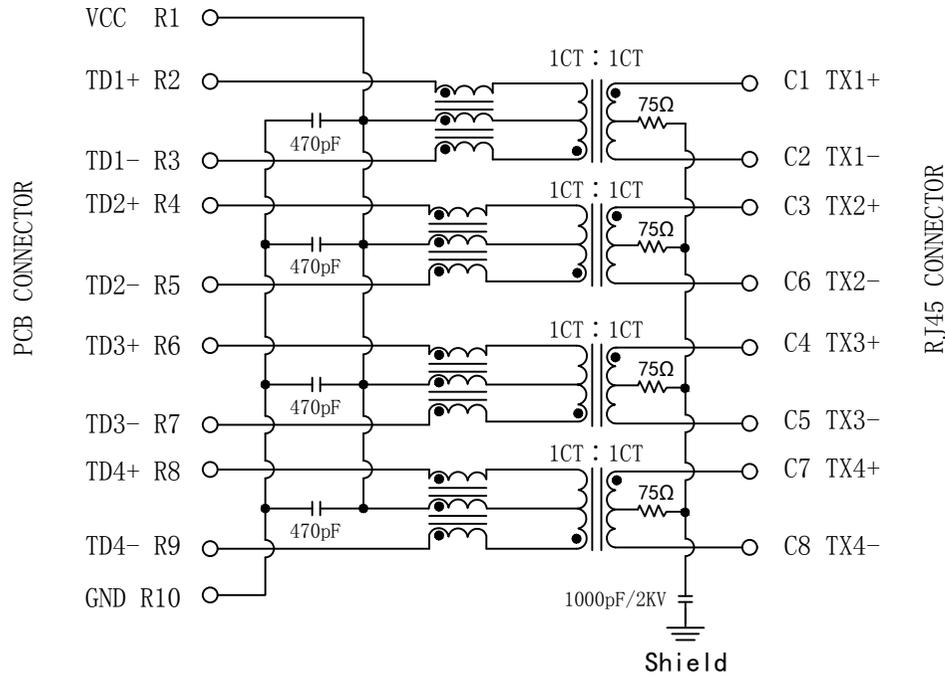


Specifications Overview

Points	1x1 RJ45 MagJack, side entry (right angle)
POE	NON-PoE design
Orientation	90° Angle (Right)
Speed	2.5G Base-T
LED configuration	Green/Yellow LED indicators
Shielding	Shielded without 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
A	REL		2022-08-02	



ELECTRICAL SPECIFICATIONS @25°C

- Turn Ratio : 1CT:1CT ±5%
- OCL: 200uH Min @100KHz , 0.1V
- Insertion Loss (dB Max):

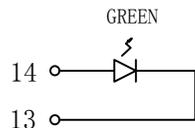
1-100MHz: -1.0	100-125MHz: -1.5
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- Return Loss(dB Min):

1-30MHz: -16	30-100MHz: -12
100-150MHz: -10	
- Cross Talk:

1-125MHz: -25dB Min.	
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- Common Mode Rejection(dB Min):

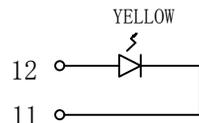
1-125MHz: -30	
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- Common Mode to Differential Mode Rejection(dB Min):

1-100MHz: -30	100-125MHz: -25.
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- Isolation Hi-Pot: 2250VDC Min
- Operating Temperature Range: 0°C ~70°C.



LEFT LED

LED POLARITY		COLOR
PIN 14	PIN 13	
+	-	GREEN



RIGHT LED

LED POLARITY		COLOR
PIN 12	PIN 11	
+	-	YELLOW

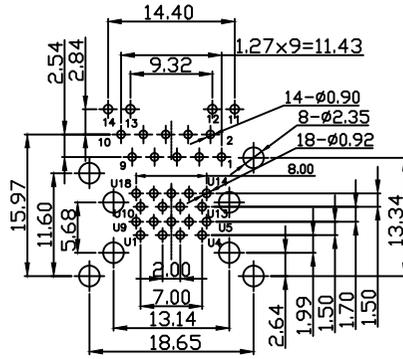
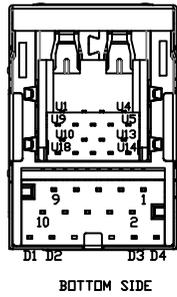


Emitting Color	λp(nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 μA max
ORANGE	610	1.8~2.6V	10 μA max
YELLOW	585	1.8~2.6V	10 μA max

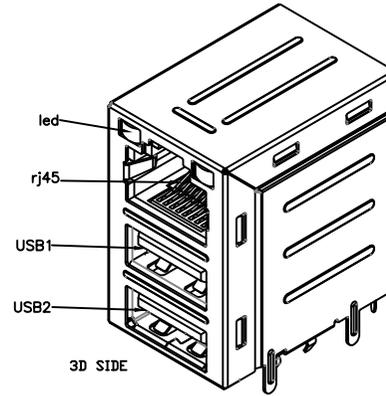
X:X	±0.30	APPD: TOM	Summit Electronics bv	
X:XX	±0.25	CHKD: JAMES		
X:XXX	±0.05	DR: LEO	TITLE: RJ45 Connector with 2.5G BASE-TX JACK/Dual USB 3.0 Combo	
ANGLES	±1°	UNIT: mm	PART NO. : SRJ101252010	
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO. :

Mechanical:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2022-08-02	

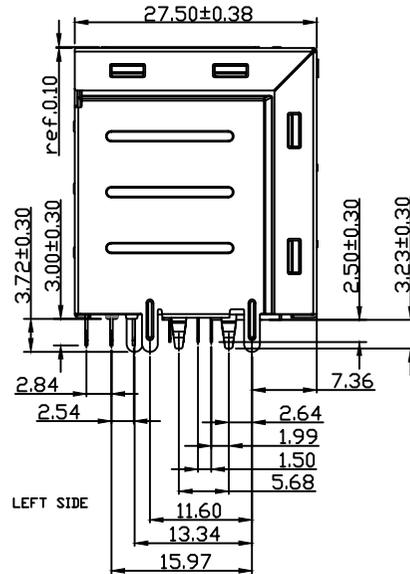
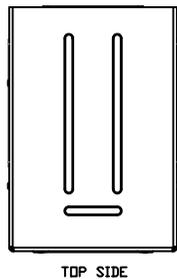
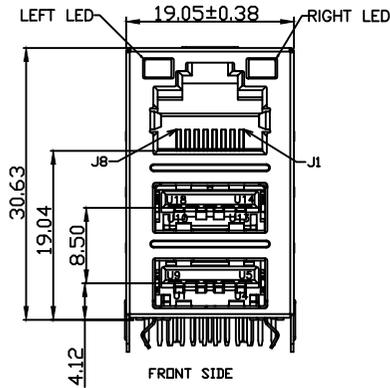


TOP VIEW (ALL TOLERANCE ARE:±0.05mm)
RECOMMENDED PCB LAYOUT (T=1.2~2.0mm)



USB3.0 STANDARD-A CONNECTOR PIN ASSIGNMENTS:

PIN NUMBER	SIGNAL NAME	DESCRIPTION
1 10	VBUS	POWER
2 11	D-	USB2.0 DIFFERENTIAL PAIR
3 12	D+	
4 13	GND	GROUND FOR POWER RETURN
5 14	StdA_SSRX-	SUPERSPEED RECEIVER
6 15	StdA_SSRX+	DIFFERENTIAL PAIR
7 16	GND_DRAIN	GROUND FOR SIGNAL RETURN
8 17	StdA_SSTX-	SUPERSPEED TRANSMITTER
9 18	StdA_SSTX+	DIFFERENTIAL PAIR



NOTES:

1. Designed to support application, such as SOHO (ADSL modems), 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=0.25mm
Shield: SUS 201-1/2H Thickness=0.2mm
Contact plating: Gold 6 micro-inches min. In contact area. USB
Contact plating: Gold flash.
4. Wave soldering temperature: 250°C.5Sec

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