

# RJ45 Ethernet Connector

## SRJ204010020

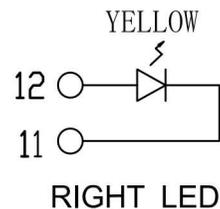
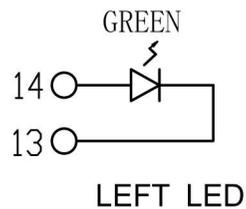
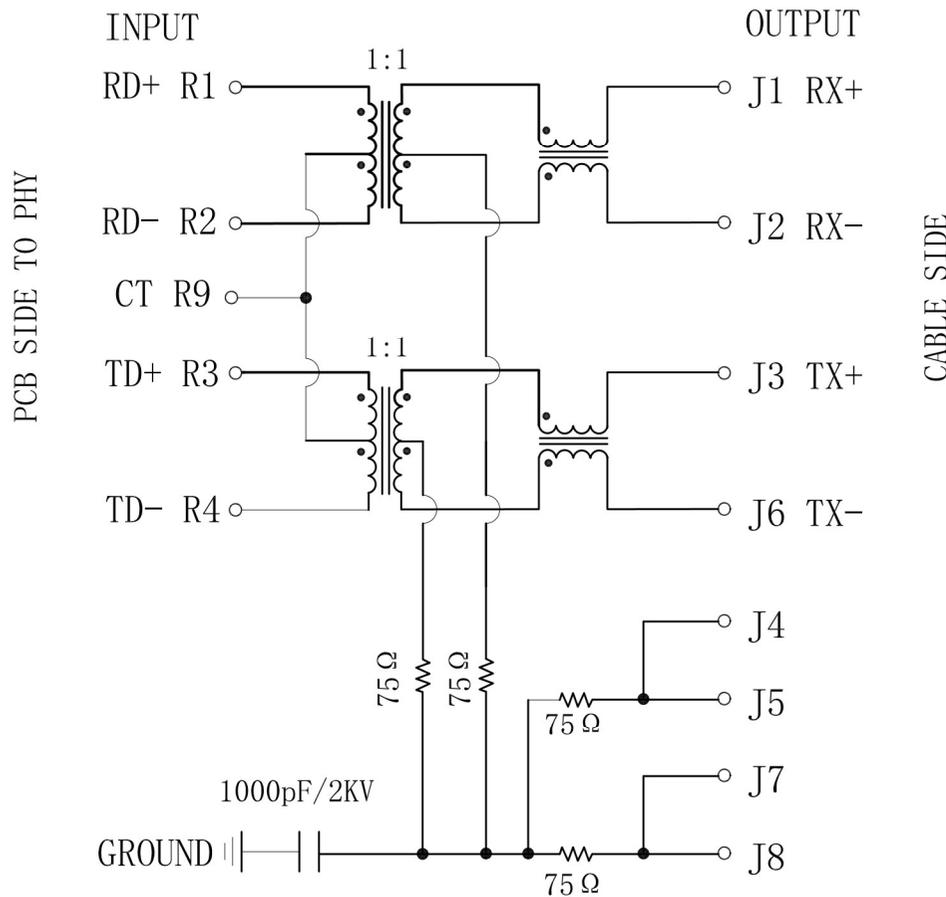


### Specifications Overview

<b>Points</b>	2x4 RJ45 MagJack, side entry (right angle)
<b>POE</b>	NON-PoE design
<b>Orientation</b>	90° Angle (Right)
<b>Speed</b>	10/100/1000 Base-T
<b>LED configuration</b>	Green /Yellow LED indicators
<b>Shielding</b>	Shielded with EMI tabs
<b>Operating Temperature</b>	-40°C to +85°C
<b>Mounting</b>	Through-hole
<b>Latch</b>	Both
<b>Cores to Port</b>	8

# Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		24/12/2008	



## Electrical Specifications:

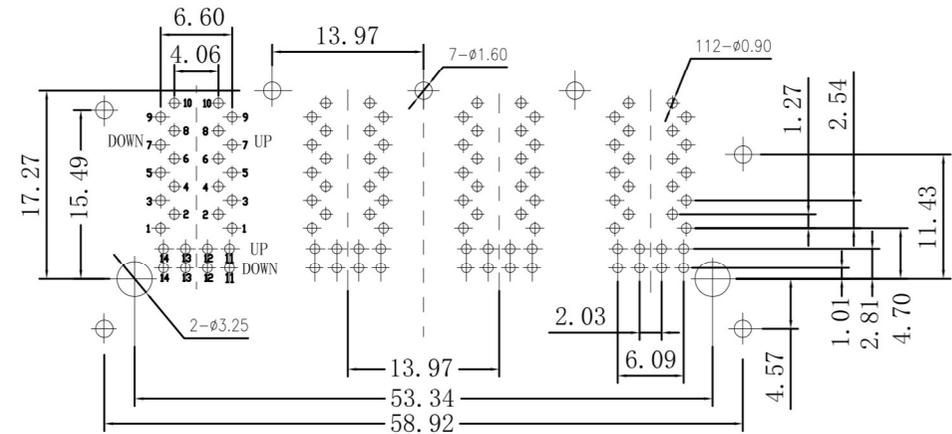
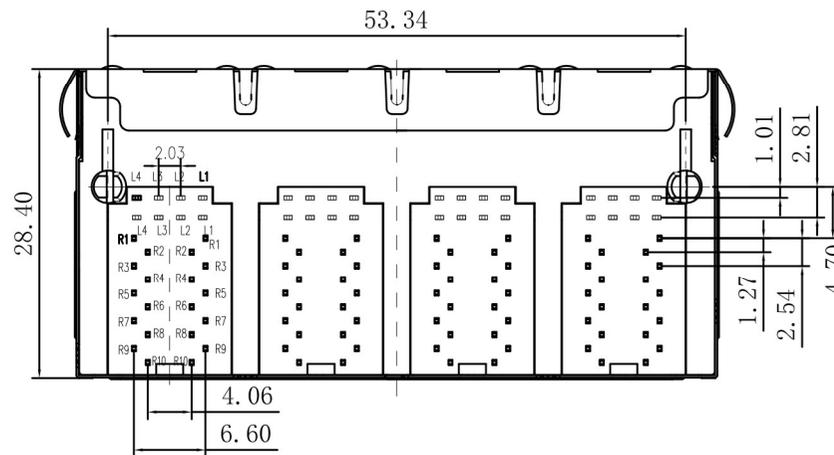
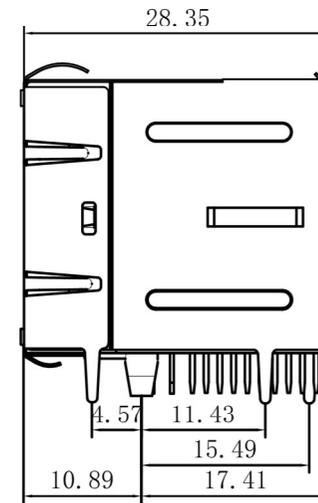
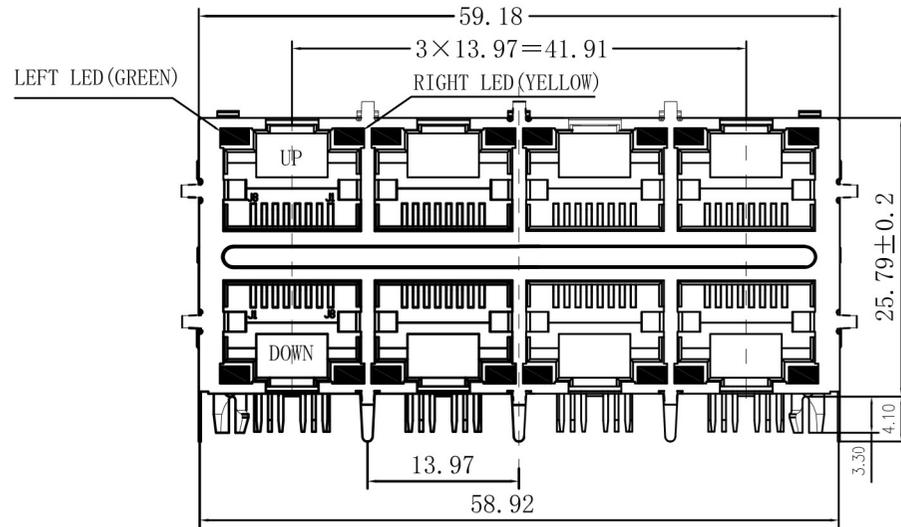
- Transmitter filter & Receiver filter  
Type: Balance low pass 100Ω impedance  
Insertion Loss:  
1-100MHz: -1.0dB MAX  
Return Loss:  
1-30MHz: -18dB MIN. load 100Ω  
30-60MHz: -16dB MIN. load 100Ω  
60-80MHz: -12dB MIN. load 100Ω
- Turns Ratio: TX=1:1 RX=1:1
- Inductance @ 100KHz, 0.1V, 8mA DC BIAS  
Input (R1-R2), Input (R3-R4): 350uH MIN
- Crosstalk: 1-100MHz: -30dB MIN
- Common Mode Rejection: 1-100MHz: -30dB MIN
- Hipot:  
Input (R1-R2) to Output (J1-J2): 1500VAC, 60sec  
Input (R3-R4) to Output (J3-J6): 1500VAC, 60sec  
Output (J1-J2), Output (J3-J6) to Shell: 2500VAC, 5sec.
- Operating temperature: -40°C to +85°C.

Emitting Color	λ p(nm)	VF@IF=20mA	IR @VR=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:	<b>Summit Electronics BV</b>
X:XX	±0.25	CHKD:	
X:XXX	±0.05	DR: TOM	
ANGLES	±1°	UNIT: mm	TITLE: RJ45 . Transformer. 10/100 Base-T W/LED. 2×4
			PART NO. : SRJ204010020
	SCALE: 2/1	SHEET: 1/2	REV: A
			DWG NO. :

# Mechanical :

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		24/12/2008	



SUGGESTED PCB LAYOUT (TOP 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: Thermoplastic UL94V-0  
Contact/Shield: Copper alloy  
Shield plating: Nickel  
Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 265°C Max, 5 Sec Max.



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ANGLES	±1°	UNIT: mm	TITLE: RJ45 .Transformer. 10/100 Base-T W/LED. 2×4
			PART NO. : SRJ204010020
SCALE: 2/1		SHEET: 2/2	REV: A
		DWG NO. : LP08122405	