

RJ45 Ethernet Connector

SRJ204010010



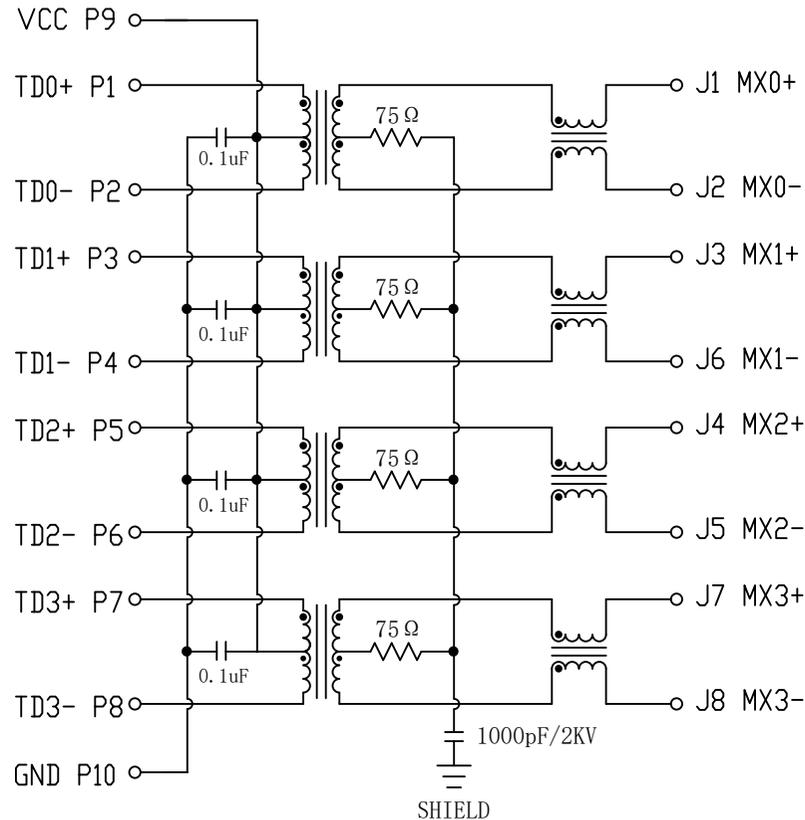
Specifications Overview

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

Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2018/11/15	

PCB CONNECTIONS

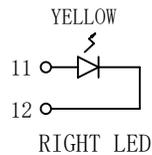
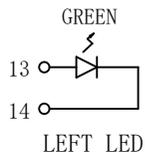


RJ45 CONNECTOR

Electrical Specifications @25°C

- Turns Ratio:
PRI:SEC = 1CT:1CT ±2%
- OCL:
350uH MIN @100KHz, 100mV, 8mADC
- Insertion Loss:
1~100MHz:-1.0dB MAX
- Return Loss(dB MIN):
1~30MHz:-18 30~60MHz:-14
60~80MHz:-12
- Crosstalk(dB TYP):
1~30MHz:-40 30~60MHz:-35
60~80MHz:-30
- Differential to Common Mode Rejection:
1~100MHz: -30dB TYP
- CMRR: 1~100MHz:-30dB MIN
- Isolation PHY SIDE To Line SIDE : 1500Vrms
- Operating Temperature Range: -40°C~+85°C.

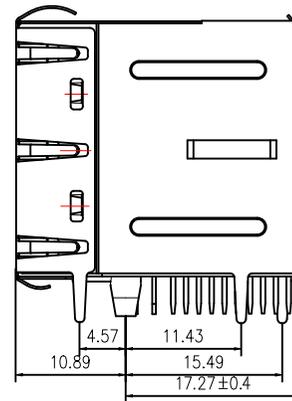
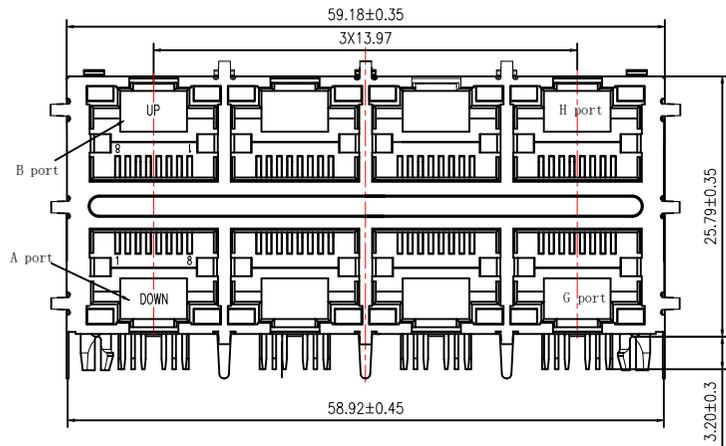
Emitting Color	λ_p (nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max



X:X	±0.30	APPD: TOM	Summit Electronics BV	
X:XX	±0.25	CHKD: JAMES		
X:XXX	±0.05	DR: LEO	TITLE: RJ45 .Transformer. 1000 Base-T . 2x4	
ANGLES	±1°	UNIT: mm	PART NO.: SRJ204010010	
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO.:

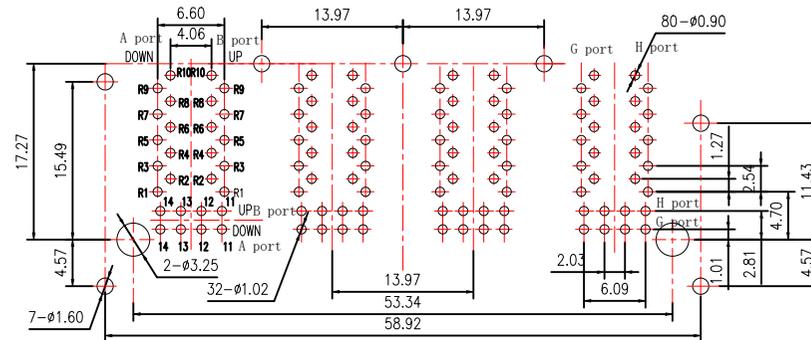
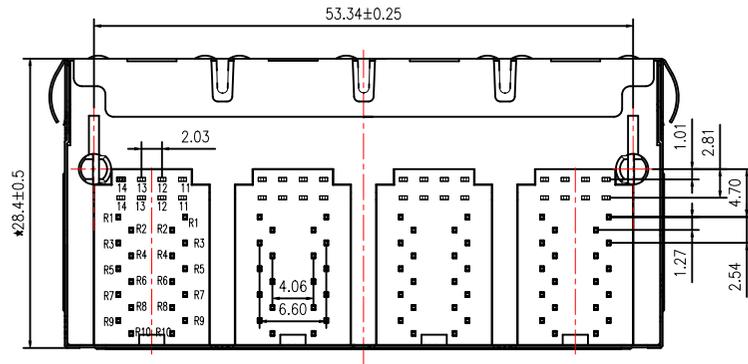
Mechanical :

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2018/11/15	

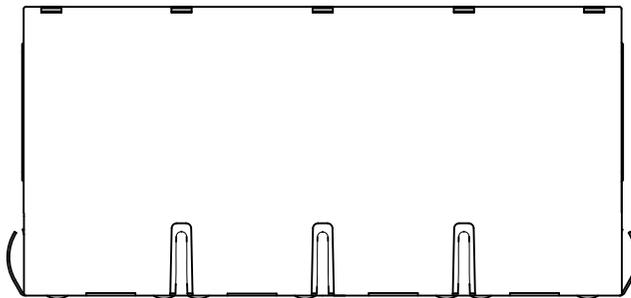


NOTES:

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.
4. Wave solder tip temperature: 250°C, 5 Sec.



SUGGESTED PCB LAYOUT (TOP VIEW)



X:X	±0.30	APPD:	TOM	Summit Electronics BV	
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X:XXX	±0.05	DR:	LEO	TITLE: RJ45 .Transformer. 1000 Base-T . 2×4	
ANGLES	±1°	UNIT:	mm	PART NO. : SRJ204010010	
	SCALE:	2/1	SHEET:	2/2	REV: A
			DWG NO. :		