

RJ45 Ethernet Connector

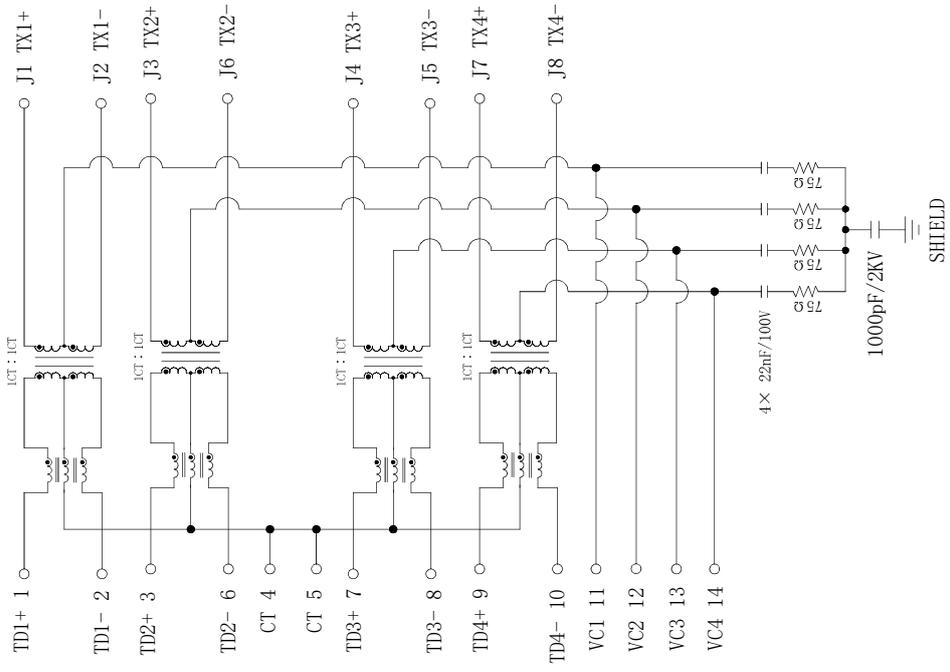
SRJ101010010



Specifications Overview

Points	1×1 RJ45 MagJack, side entry (right angle)
POE	PoE+
Orientation	90° Angle (Right)
Speed	10/100/1000 Base-T
LED configuration	Green / Yellow LED indicators
Shielding	Shielded without EMI tabs
Operating Temperature	0°C to +70°C
Mounting	Through-hole
Latch	Down
Cores to Port	8

Schematic:



PC BOARD CONNECTIONS

RJ45 CONNECTOR

ELECTRICAL SPECIFICATIONS @25°C

- Turn Ratio ($\pm 5\%$):
Pri : Sec = 1CT : 1CT
- Inductance OCL:
350uH MIN @100KHz/0. 1V, 8mA DC Bias
120uH MIN @100KHz/0. 1V, 18mA DC Bias
- Insertion Loss:
-1. 0dB MAX @1-100MHz
-1. 2dB MAX @100-125MHz
- Return Loss:
-16dB MIN @1-40MHz
-12dB MIN @40-60MHz
-10dB MIN @60-80MHz
-8dB MIN @80-100MHz
- Cross talk:
-30dB MIN @1-100MHz
- Common to Common Mode Rejection:
-30dB MIN @1-100MHz
- DC Current/Voltage Rating pse Pins:
720mA MAX @57VDC (Continuous)
- Hipot Test: 1500Vrms MIN
- Operating Temperature: 0°C to 70°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

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2018-02-26	

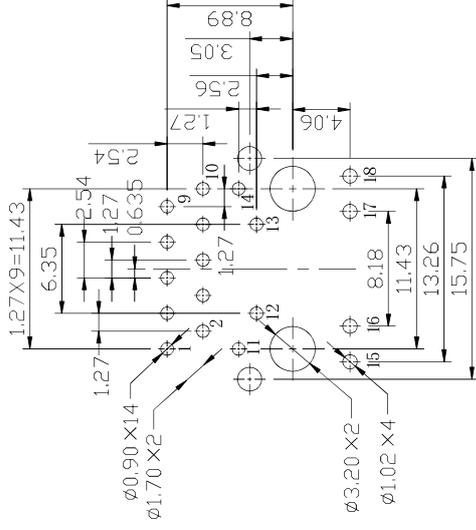
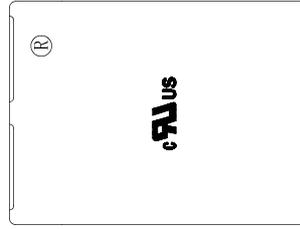
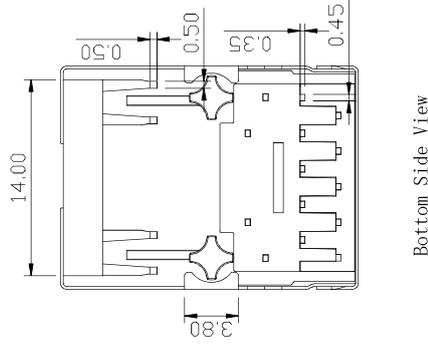
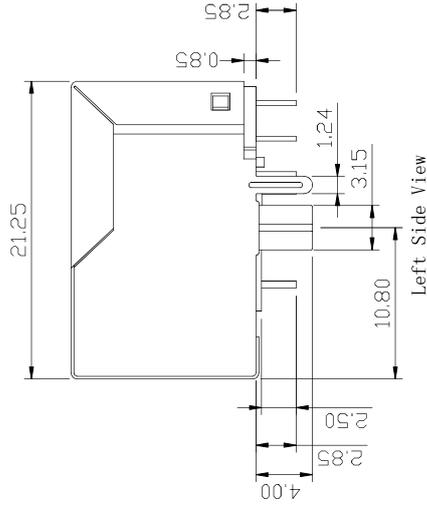
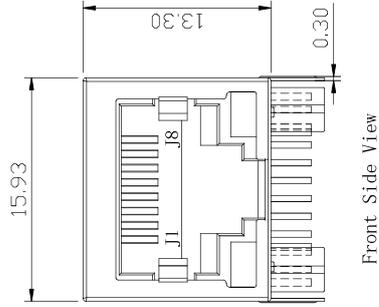


Summit Electronics BV

X:X	± 0.30	APPD: TOM	TITLE: RJ45 Connector with 1000 Base-T Integrated Magnetics For PoE+ Application	
X:XX	± 0.25	CHKD: JAMES	PART NO.: SRJ101010010	
X:XXX	± 0.05	DR: LEO	SCALE: 2/1 SHEET: 1/2 REV: A	
ANGLES $\pm 1^\circ$		UNIT: mm		

Mechanical:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2018-02-26	



NOTES:

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Meets IEEE802.3at specification.
3. Connector Materials:
 Housing: Thermoplastic PBT+30%G.F UL94V-0
 Contact: Phosphor Bronze C5210R-EH Thickness=0.35mm Pins: Brass C2680R-H Thickness=0.35mm
 Shield: SUS 304-1/2H Thickness=0.2mm
 Contact plating: Gold 6 micro-inches min. In contact area.
 4. Wave solder tip temperature: 250°C, 5 Sec.
 5. UL Certificate



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X:XXX ±0.05		DR: LEO	PART NO.: SRJ101010010	
ANGLES ±1°		UNIT: mm		
SCALE: 2/1		SHEET: 2/2	REV: A	