

RJ45 Ethernet Connector

SRJ110001THU051M

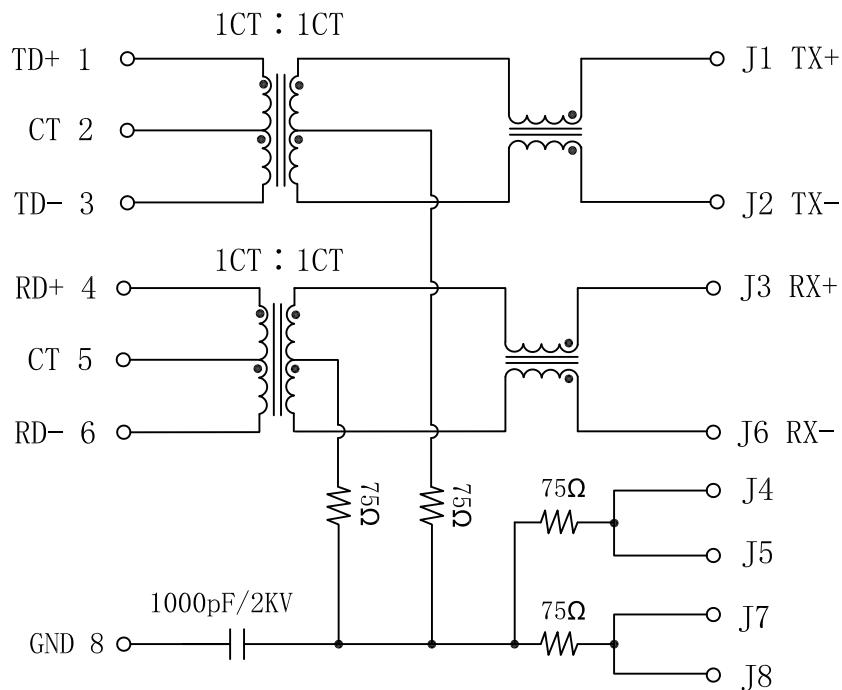


Specifications Overview

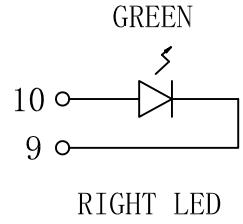
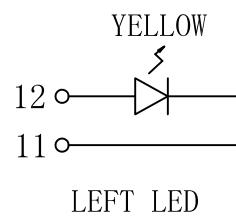
Points	1x1 RJ45 MagJack, side entry (right angle)
POE	NON-PoE design
Orientation	90° Angle (Right)
Speed	10/100 Base-T
LED configuration	Yellow/Green LED indicators
Shielding	Shielded without EMI tabs
Operating Temperature	-40°C to +85°C
Mounting	Through-hole
Latch	UP
Cores to Port	4

Schematic:

PC BOARD CONNECTIONS



RJ45 CONNECTOR



Electrical Specifications @25°C

1. Turns Ratio:
TX = 1CT:1CT RX = 1CT:1CT
2. OCL (@100KHz, 0. 1V, 8mA DC Bias):
350uH MIN
3. Insertion Loss:
1~65MHz:-1. 0dB MAX
4. Return Loss:
1~10MHz:-2dB MIN.
10~30MHz:-16dB MIN.
30~60MHz:-12dB MIN.
60~100MHz:-10dB MIN.
5. Crosstalk:
1~30MHz:-40dB MIN
30~60MHz:-35dB MIN
60~100MHz:-30dB MIN
6. Common Mode Rejection:
1~50MHz:-30dB MIN
50~150MHz:-20dB MIN
7. Hipot (60Hz/1min): 1500Vrms MIN
8. Operating Temperature: -40°C ~ +85°C.

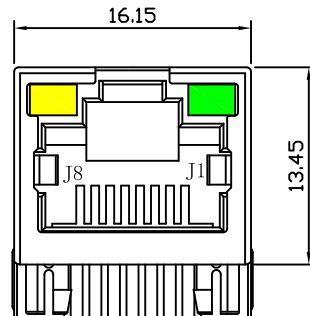


Emmiting Color	λ p(nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max

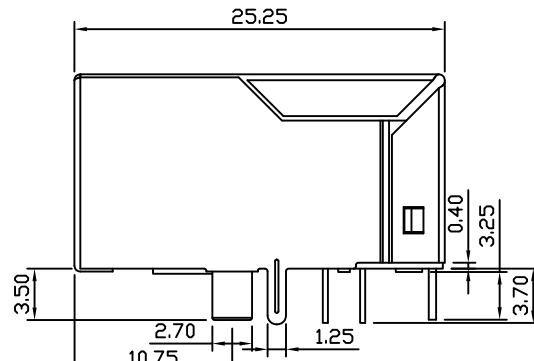
X:X	± 0.30	APPD:	Summit Electronics BV
X:XX	± 0.25	CHKD:	
X:XXX	± 0.05	DR: TOM	
ANGLES	$\pm 1^\circ$	UNIT: mm	
			TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics
			PART NO.: SRJ110001THU051 M
			SCALE: 2/1 SHEET: 1/2 REV: A DWG NO.: LP110092519

Mechanical:

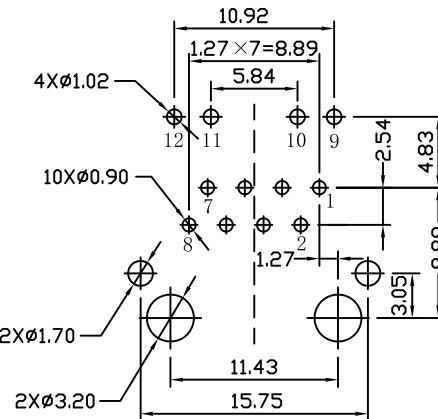
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2010-09-25	



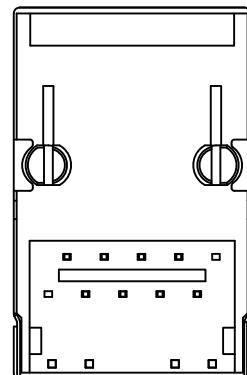
Front Side View



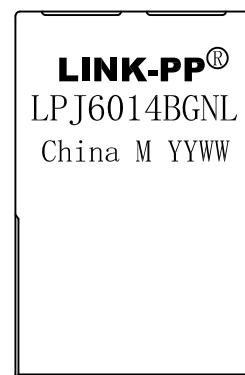
Left Side View



Suggested PCB Layout (Top View)



Bottom Side View



Top Side 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 PBT+30%G.F UL94V-0
 - Contact: Phosphor Bronze C5210R-EH Thickness=0.35mm
 - Pins: Brass C2680R-H Thickness=0.35mm
 - Shield: SUS 201-1/2H Thickness=0.2mm
 - Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 265°C Max, 5 Sec.
5. UL Certification: File Number E484635.

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