

# RJ45 Ethernet Connector

## SRJ110001THU051M



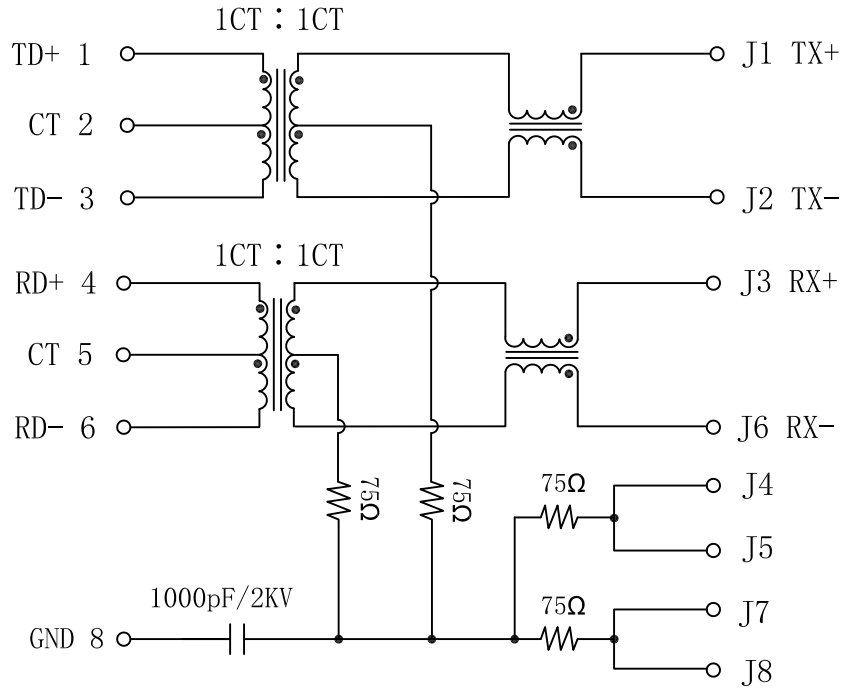
### Specifications Overview

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

Schematic:

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

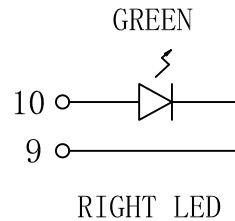
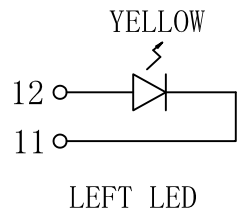
PC BOARD CONNECTIONS



RJ45 CONNECTOR

Electrical Specifications @25°C

- Turns Ratio:  
TX = 1CT:1CT      RX = 1CT:1CT
- OCV (@100KHz, 0.1V, 8mA DC Bias):  
350uH MIN
- Insertion Loss:  
1~65MHz:-1.0dB MAX
- Return Loss:  
1~10MHz:-2dB MIN.  
10~30MHz:-16dB MIN.  
30~60MHz:-12dB MIN.  
60~100MHz:-10dB MIN.
- Crosstalk:  
1~30MHz:-40dB MIN  
30~60MHz:-35dB MIN  
60~100MHz:-30dB MIN
- Common Mode Rejection:  
1~50MHz:-30dB MIN  
50~150MHz:-20dB MIN
- Hipot (60Hz/1min): 1500Vrms MIN
- Operating Temperature: -40°C ~+85°C.

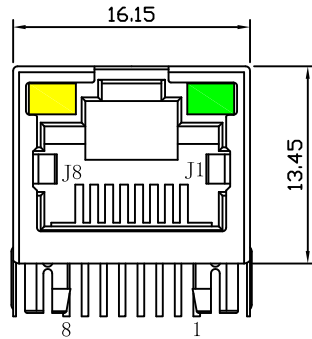


Emitting Color	$\lambda$ p(nm)	VF@IF=20mA	IR @VR=5V
GREEN	565	1.8~2.6V	10 $\mu$ A max
YELLOW	585	1.8~2.6V	10 $\mu$ A max

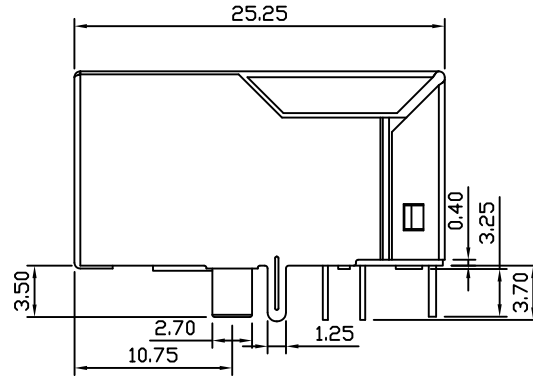
X:X	$\pm 0.30$	APPD:	<b>Summit Electronics BV</b>
X:XX	$\pm 0.25$	CHKD:	
X:XXX	$\pm 0.05$	DR: TOM	
ANGLES $\pm 1^\circ$			TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics
UNIT: mm		PART NO.: <b>SRJ110001THU051 M</b>	
	SCALE: 2/1	SHEET: 1/2	REV: A      DWG NO.: LP110092519

# Mechanical:

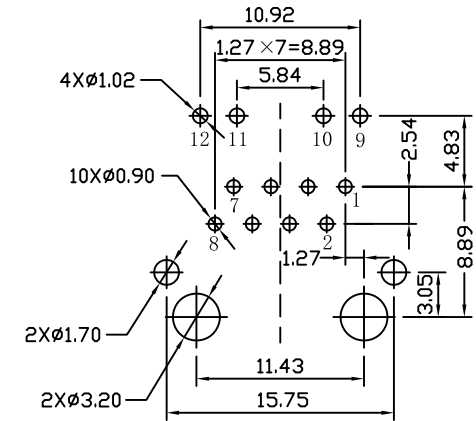
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2010-09-25	



Front Side View



Left Side View

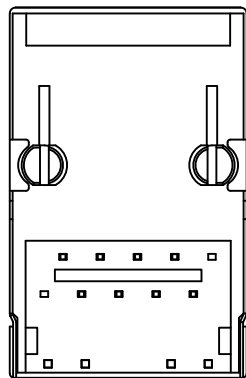


Suggested PCB Layout (Top View)

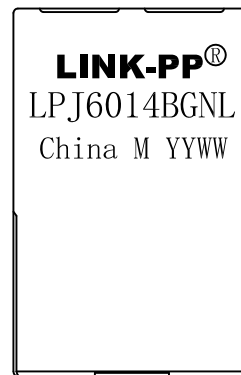


## NOTES:

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.



Bottom Side View



Top Side View

X:X ±0.30	APPD:	<b>Summit Electronics BV</b>
X:XX ±0.25	CHKD:	
X:XXX ±0.05	DR: TOM	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics
ANGLES ±1°	UNIT: mm	PART NO.: <b>SRJ110001THU051M</b>
	SCALE: 2/1	SHEET: 2/2
	REV: A	DWG NO.: LP110092519