

RJ45 Ethernet Connector

SRJ110001THD009M

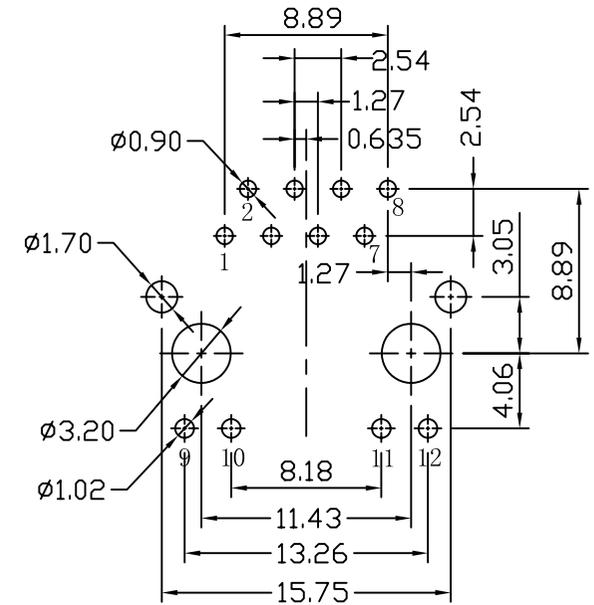
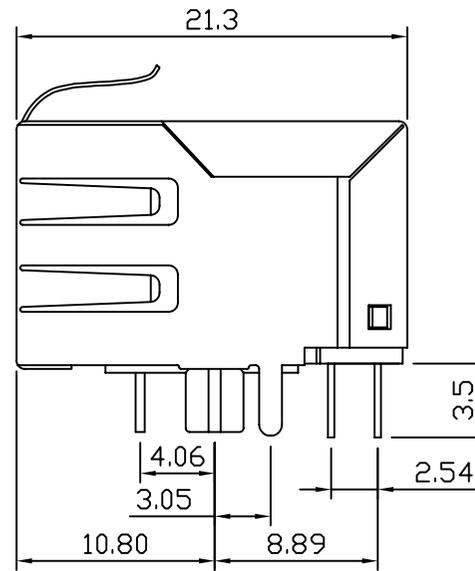
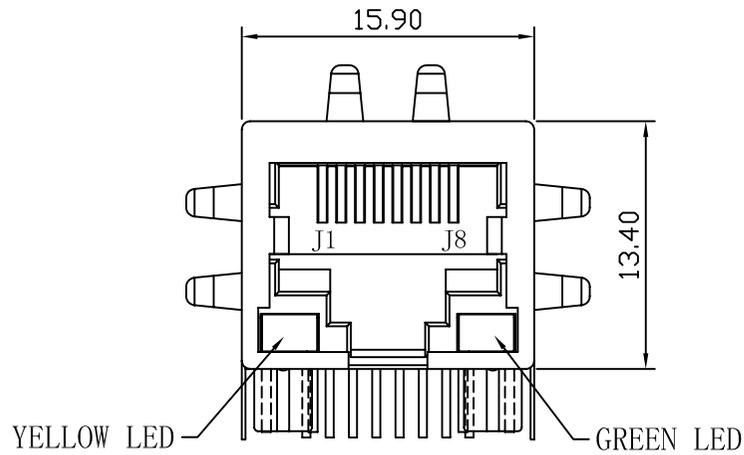


Specifications Overview

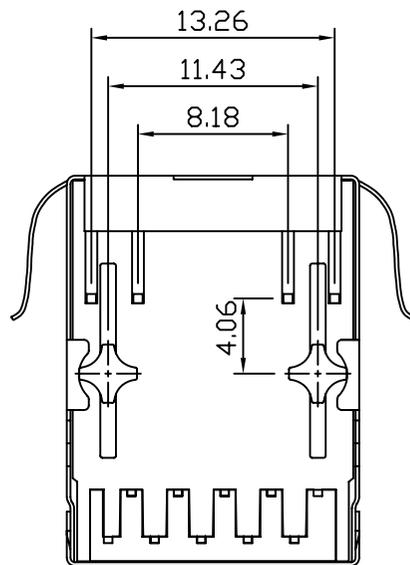
Points	1×1 RJ45 MagJack, side entry (right angle)
POE	NON-PoE design
Orientation	90° Angle (Right)
Speed	10/100 Base-T
LED configuration	Yellow/Green LED indicators
Shielding	Shielded with EMI tabs
Operating Temperature	0°C to +70°C
Mounting	Through-hole
Latch	Down
Cores to Port	4

Mechanical:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		31/08/2009	



SUGGESTED PCB LAYOUT (TOP VIEW)



NOTES:

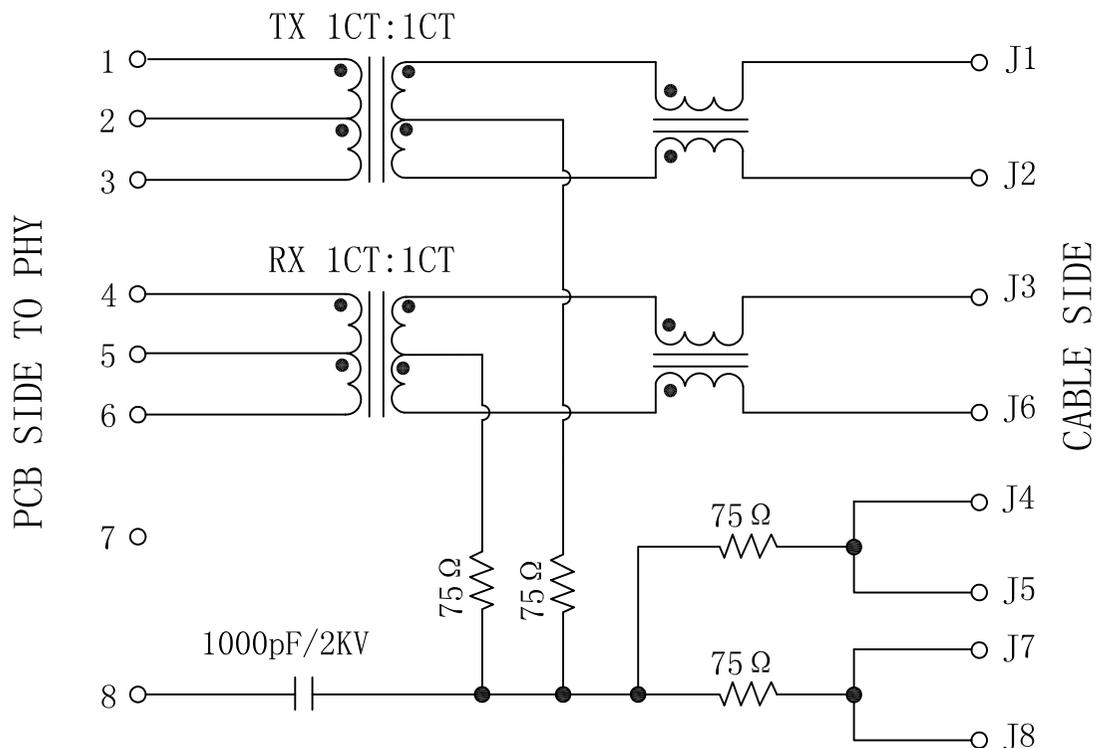
1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Meets IEEE 802.3 specification
3. Connector Materials:
 Housing: Thermoplastic UL94V-0
 Contact/Shield: Copper alloy
 Shield plating: Nickel
 Contact plating: Gold 6 micro-inches min. In contact area.
4. Wave solder tip temperature: 265°C Max
 Wave solder tip temperature time: 5 Sec Max.



X:X ±0.25	APPD:	Summit Electronics BV
X:XX ±0.20	CHKD:	
X:XXX ±0.05	DR: TOM	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics
ANGLES ±1°	UNIT: mm	PART NO. : SRJ110001THD009M
	SCALE: 2/1	SHEET: 1/2
	REV: A	DWG NO. : LP09083102

Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		31/08/2009	

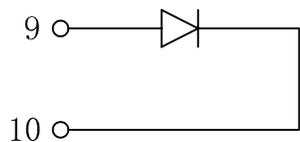


ELECTRICAL SPECIFICATIONS @25°C

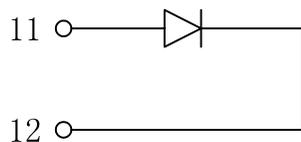
- Turn Ratio ($\pm 2\%$):
TX=1CT:1CT RX=1CT:1CT
- Inductance OCL:
350uH MIN @ 100KHz/0.1V 8mA DC Bias
- Insertion Loss:
-1.0dB MAX @ 1.0-100MHz
- Return Loss:
-18dB MIN @ 1-30MHz
-15dB MIN @ 30-60MHz
-12dB MIN @ 60-80MHz
-10dB MIN @ 80-100MHz
- Cross talk:
-40dB MIN @ 30MHz
-35dB MIN @ 60MHz
-30dB MIN @ 100MHz
- Common Mode Rejection:
-40dB MIN @ 30MHz
-35dB MIN @ 60MHz
-30dB MIN @ 100MHz
- Hipot Test: 1500Vrms
- Operating Temperature Range: 0°C TO 70°C



YELLOW/LEFT LED



GREEN/RIGHT LED



X:X	± 0.25	APPD:	Summit Electronics BV	
X:XX	± 0.20	CHKD:		
X:XXX	± 0.05	DR: TOM	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics	
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO. : SRJ110001THD009M	
	SCALE: 2/1	SHEET: 2/2	REV: A	DWG NO. : LP09083102