

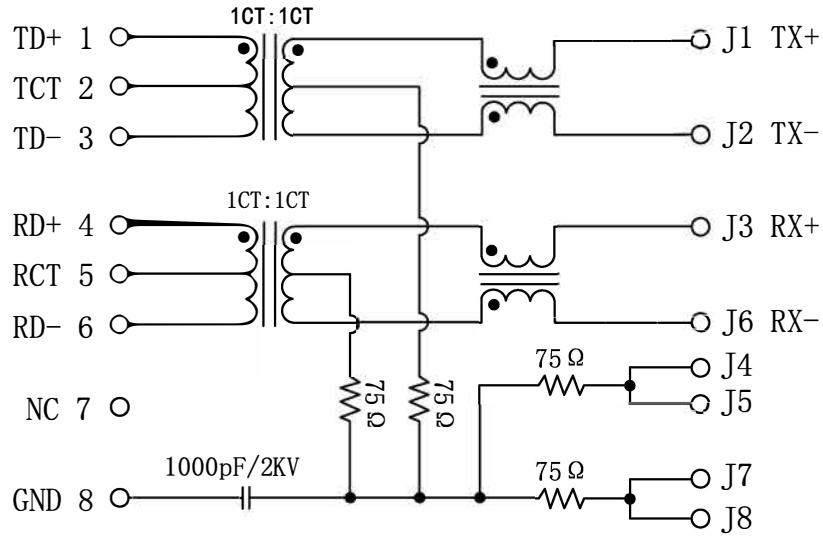
Schematic:

WURTH 7499010003A alternative

Modular Connector, RJ45 Jack, 1 x 1 (Port), 8P8C, Through Hole Mount



PC BOARD CONNECTIONS



RJ45 CONNECTOR

Electrical Specification @25°C

- Turns Ratio ($\pm 2\%$):
TX=1CT : 1CT RX=1CT : 1CT
- Inductance OCL: 350uH Min
@100KHz, 100mVrms, 8mA DC bias current
- Insertion Loss:
0.3-100MHz:-1.2dB Max
- Return Loss(dB Min, @100 Ω):
1-30MHz:-16 40MHz:-14
50MHz:-13 60-80MHz:-10
- Crosstalk(dB Min):
30MHz:-40 60MHz:-36
100MHz:-30
- Common Mode Rejection(dB Min):
30MHz:-35 60MHz:-32
100MHz:-30
- Isolation Voltage: 1500Vrms
- Operating Temperature: -40°C ~ +85°C.



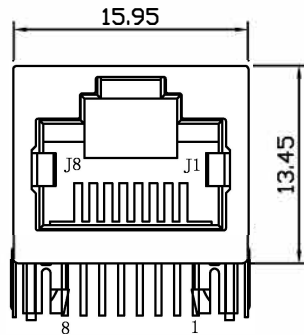
more info: sales@bec.co.uk

X:X	± 0.30	APPD:	DWG NO. :	LP08070816
X:XX	± 0.25	CHKD:	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics	
X:XXX	± 0.05	DR: TOM		
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO. :	LJ16612DNL
	SCALE: 2/1	SHEET: 1/2	REV: A	www.bec.co.uk

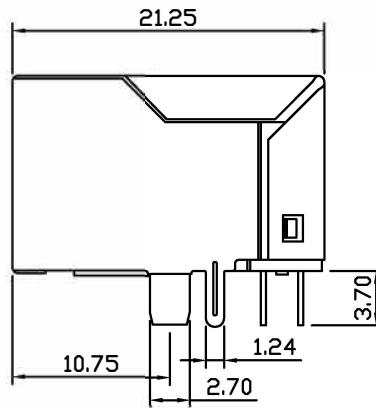
Mechanical:

WURTH 7499010003A alternative

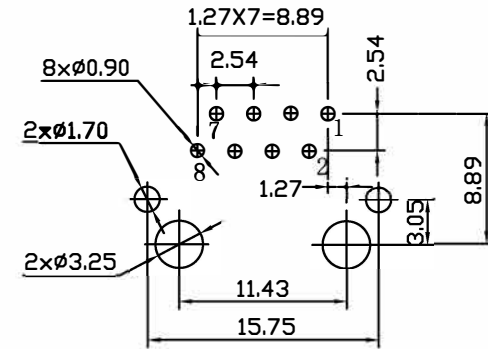
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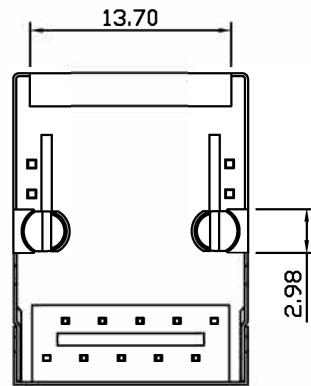
Front Side View



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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X:X ±0.30	APPD:	BEC Distribution Ltd
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.: LJ16612DNL
	SCALE: 2/1	SHEET: 2/2
	REV: A	www.bec.co.uk