"LAN-MATE" SERIES

SINGLE RJ45 CONNECTOR MODULE WITH INTEGRATED 10/100 BASE-TX MAGNETICS

P/N: LU1T041H

Feature

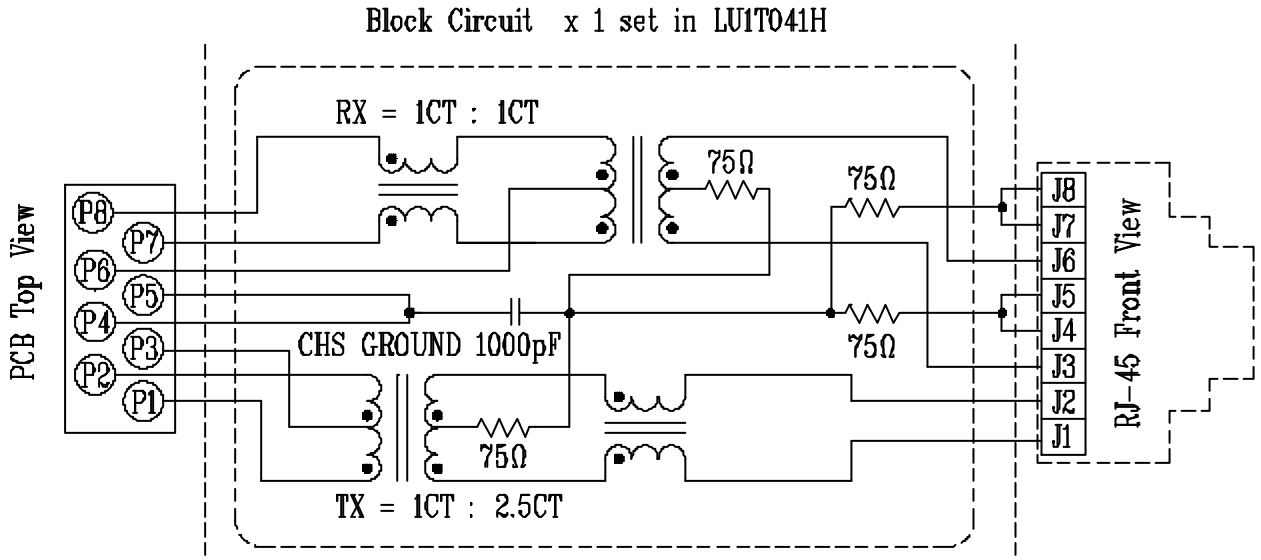


- RJ-45 connector integrated with transformer/impedance resistor/high voltage capacitor.
- Size same as RJ-45 connector to save PCB board space.
- Reduced EMI radiation to improve EMI performance.
- Design for 10/100 BASE transmission over UTP-5 cable.
- Operating temperature range: 0℃ to +70℃.
- Storage temperature range: -25℃ to +125℃.

Electrical Specifications @ 25°C					
Part Number	Turns Ratio (±5%)		OCL (uH Min) @ 100 KHz/0.1V with 8mA DC Bias	Insertion Loss (dB Max)	HI-POT (Vrms)
	TX	RX		0.3-100MHz	
LU1T041H	1CT:2.5CT	1CT:1CT	350	-1.15	1500

Continue											
Part Number	Return Loss (dB Min)					Cross talk (dB Min)			CMR (dB Min) TX/RX		
	30MHz	40MHz	50MHz	60MHz	80MHz	0.3-30MHz	30-60MHz	60-100MHz	1-30MHz	30-60MHz	60-125MHz
LU1T041H	-16	-14	-13.5	-13	-10	-40	-35	-30	-30	-25	-20

Schematic

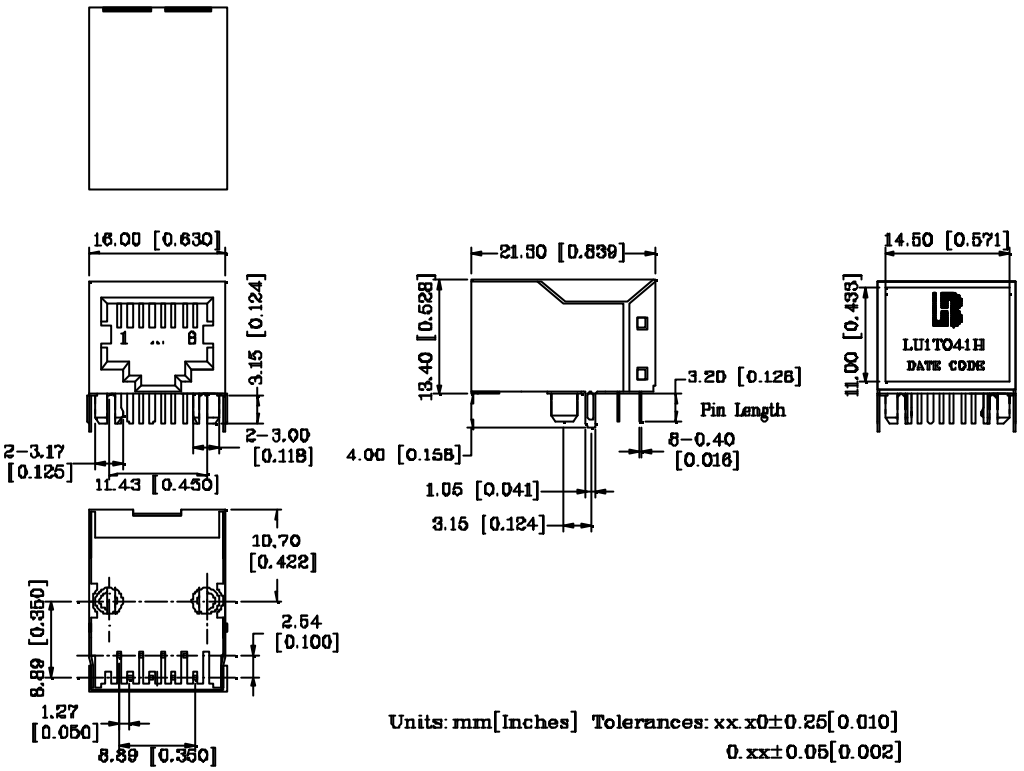


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Mechanical



1. Plastic Material	:	Thermoplastic (UL 94V-0), Black Housing
2. Metal Shield	:	Brass, 20u" inches thick Nickel
3. Spring Wire	:	Phosphor bronze with selective gold plating
4. Solder Pin	:	0.4x0.4mm, Phosphor bronze with solder Plated
5. Durability	:	750 Mating cycles Min.

PCB Layout Mounting Hole(Top View)

