"LAN-MATE" SERIES DESCRIPTION :
10/100 BASE-T RJ45 1 x 4 INTEGRATED MAGNETICS CONNECTOR
P/N: KLU4S041X LF

BOTHHAND USA

Feature

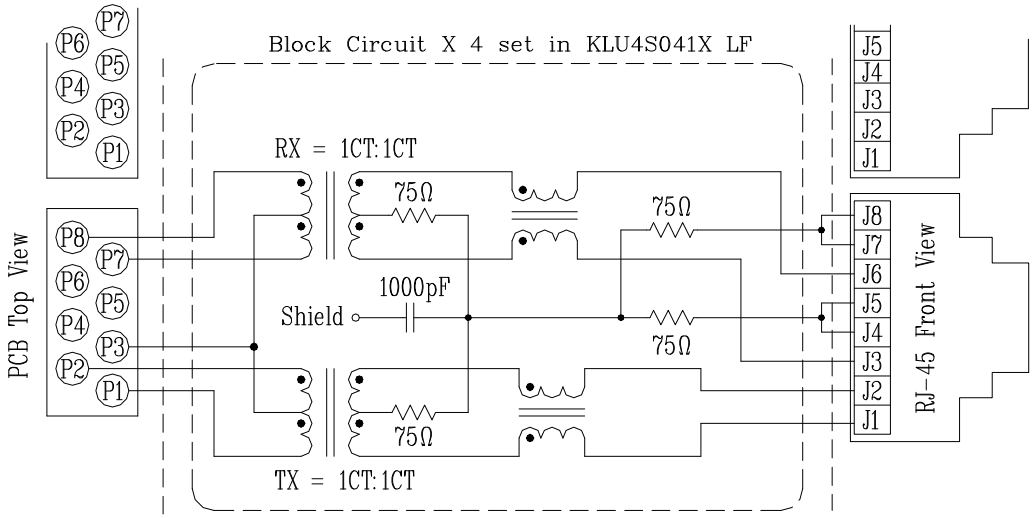


- RJ-45 needs to be matched FCC standard.
- Complies with requirement of IEEE 802.3u standards.
- RJ-45 connector integrated with transformer/impedance resistor/high voltage capacitor.
- Size same as RJ-45 connector to save PCB board space.
- Reduced EMI radiation to improve EMI performance.
- Design for 10/100 BASE transmission over UTP-5 cable .
- Compliance with ROHS requirements.
- Operating temperature range: 0℃ to +70℃.
- Storage temperature range: -25℃ to +85℃.

Electrical Specifications @ 25°C							
Part Number	Turns Ratio (±5%)		OCL (uH Min) @100KHz/0.1V with 8mA DC Bias	$C_{W/W}$ (pF Max)	L.L (uH Max)	Insertion Loss (dB Max)	HI-POT (Vrms)
	TX	RX				0.3-100MHz	
KLU4S041X LF	1CT:1CT	1CT:1CT	350	56	0.4	-1.15	1500

Continue											
Part Number	Return Loss (dB Min)					Cross talk (dB Min)			CMR (dB Min)		
	30MHz	40MHz	50MHz	60MHz	80MHz	0.3-30MHz	30-60MHz	60-100MHz	1-30MHz	30-60MHz	60-125MHz
KLU4S041X LF	-16	-14	-13.5	-13	-10	-40	-35	-30	-30	-25	-20

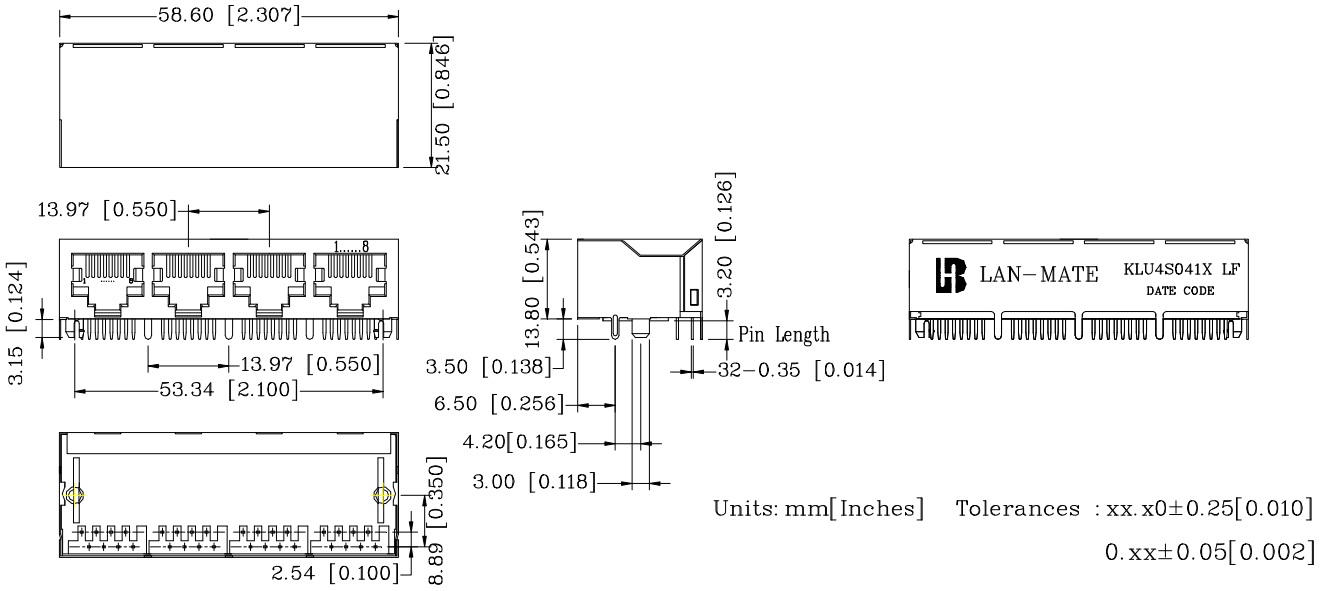
Schematic



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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	:	0.45mm Dia. Phosphor bronze with 0.1524 *10^{-6}m gold plated & 1.524*10^{-6} m thick Nickel
4. Solder Pin	:	0.5x0.35mm, SUS430 with solder Plated
5. Durability	:	750 Mating cycles Min.

PCB Layout Mounting Hole(Top View)

