

“LAN-MATE” SERIES**1X8 RJ45 CONNECTOR MODULE WITH INTEGRATED 10/100 BASE-TX MAGNETICS**

P/N: LU8T041XLF

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Feature

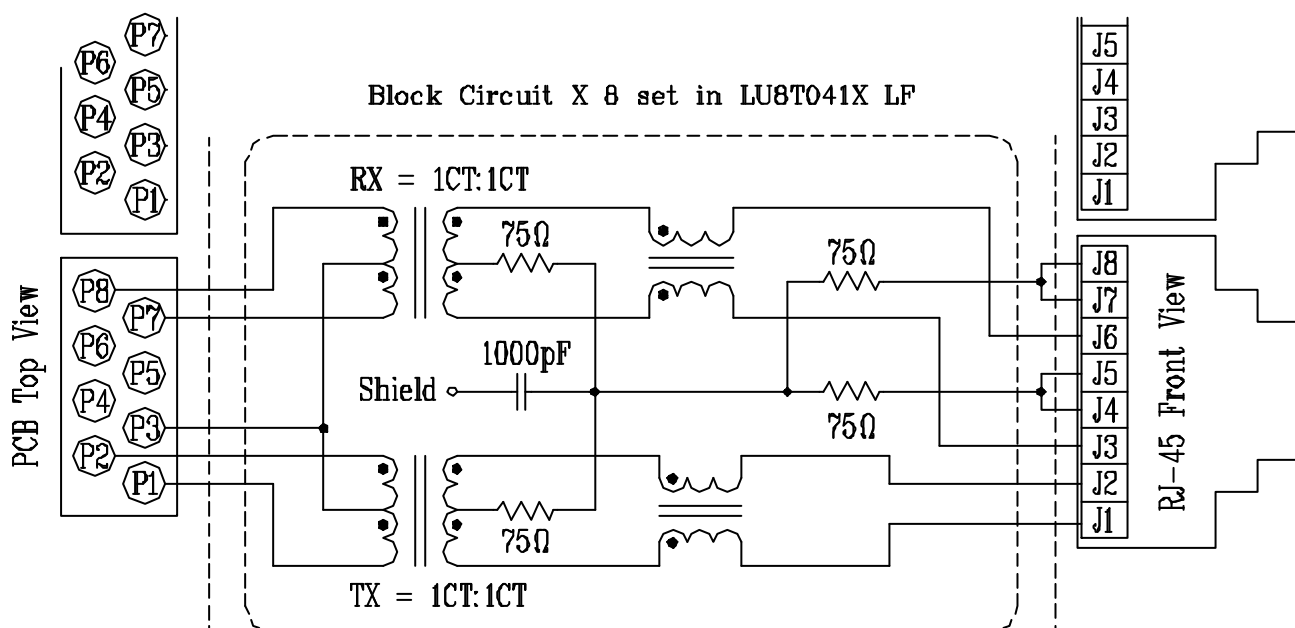
- RJ-45 needs to be matched FCC standard
- RJ-45 connector integrated with X'FMR /Impedance resistor/High voltage capacitor.
- Size same as RJ-45 connector to save PCB Board space.
- Reduced EMI radiation to Improve EMI performance.
- Design for 100 BASE transmission over UTP-5 cable.
- Comply with RoHS requirements-whole part No Cd, No Hg, No Cr6+, No PBB and PBDE and No Pb on external pins.
- 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	C _{www} (pF Max)	L.L (uH Max)	Insertion Loss (dB Max)	HI-POT (Vrms)
	TX	RX				0.3-100MHz	
LU8T041XLF	1CT:1CT	1CT:1CT	350	56	0.5	-0.8	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
LU8T041XLF	-16	-14	-13.5	-13	-10	-40	-35	-30	-30	-25	-20

Schematic

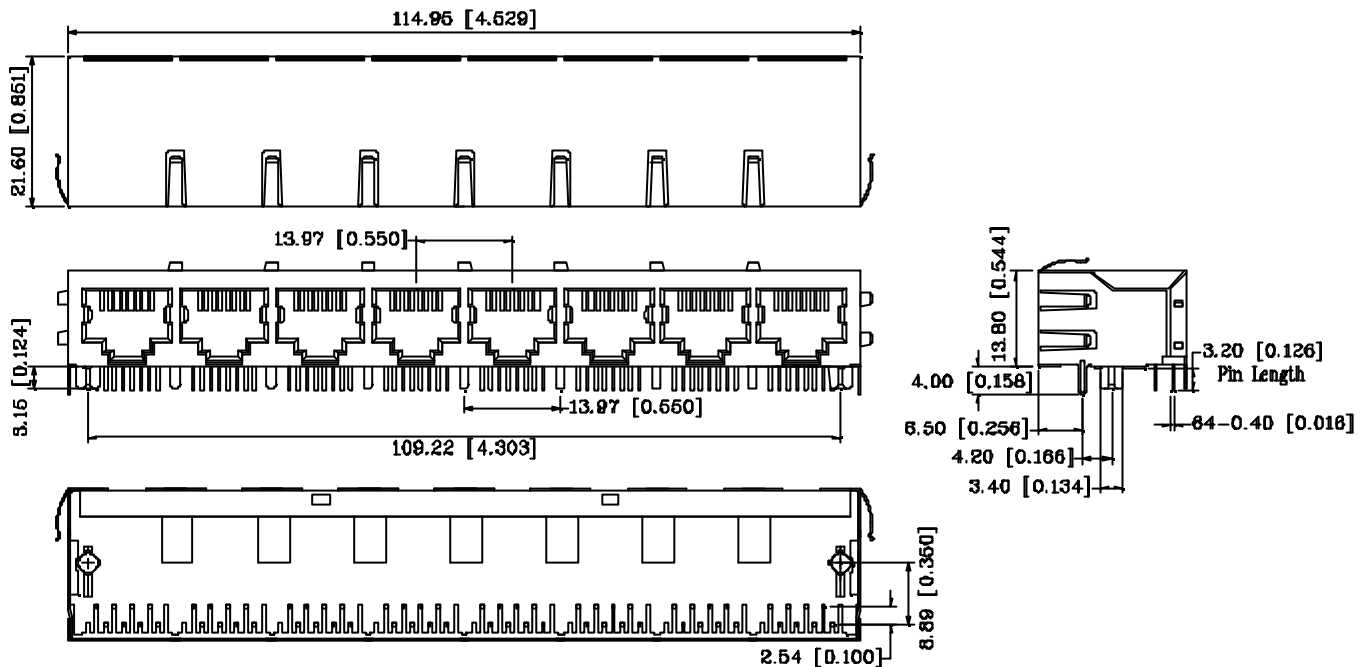
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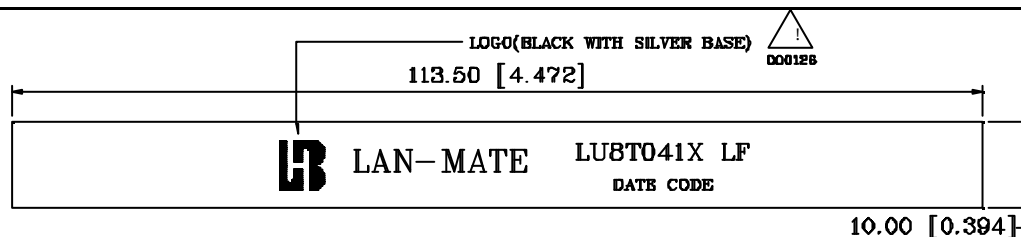
Mechanical



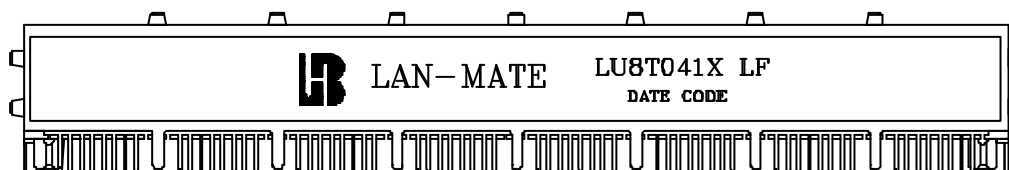
Units: mm[Inches] Tolerances: xx.x0±0.25[0.010]
0.xx±0.05[0.002]

- | | |
|---------------------|---|
| 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. |

Label position



Lable Drawing



Units: mm[Inches] Tolerances: xx.x0±0.25[0.010]
0.xx±0.05[0.002]

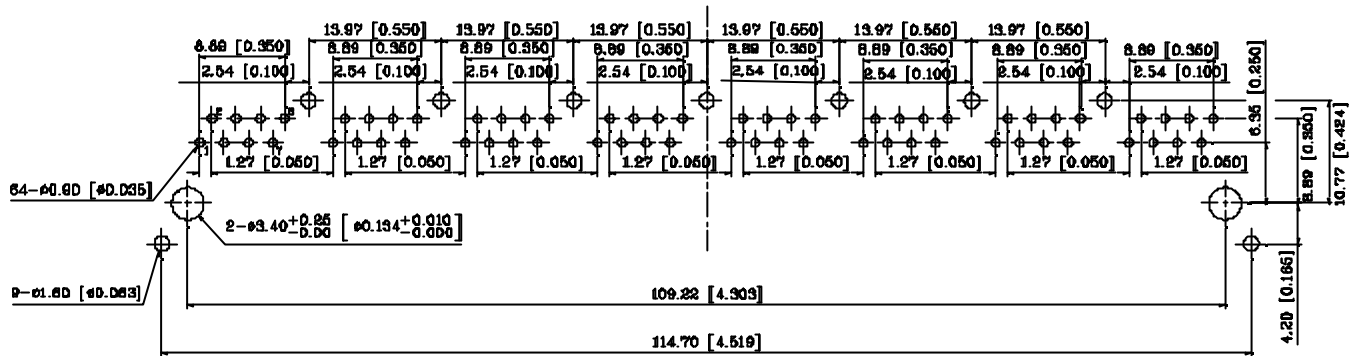
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PCB Layout Mounting Hole(Top View)



Units: mm[inches] Tolerance: xx.x0±0.25[0.010]
0.xx±0.06[0.002]