

## “LAN-MATE” SERIES

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

P/N: KLU1T041C-34 LF

Page:1/2

#### Feature



- Complies with requirement of IEEE802.3u 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.
- RJ 45 connector with 10/100 BASE-TX magnetic.
- Meet UL safety standard.
- Includes integrated 2 LEDS(option).
- LEDS are isolated to reduce cross talk and electro-magnetics interference.
- Compliance with ROHS requirements.
- Operating temperature range: 0 to +70 .
- Storage temperature range: -25 to +85 .
- Recommended panel

Part Number	Standard LED	Forward*V(Max)	(TYP)
3	YELLOW	2.6V	2.1V
4	GREEN	2.6V	2.2V

\*with a forward current of 20mA

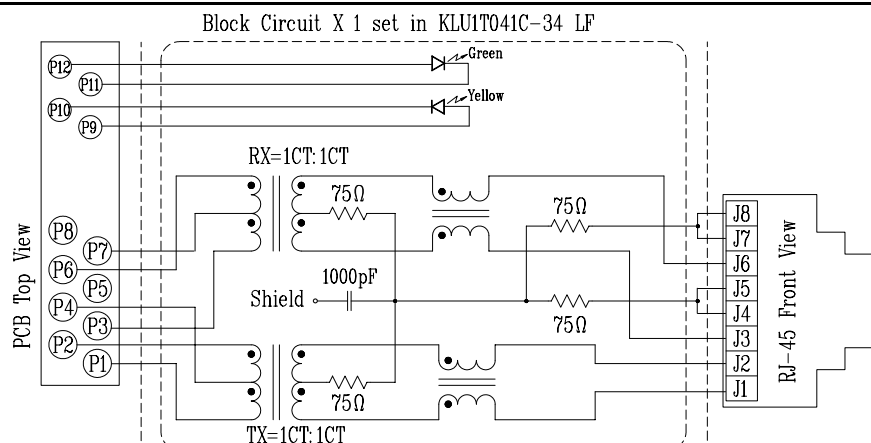
#### Electrical Specifications @ 25°C

Part Number	Turns Ratio (±5%)		OCL(uH Min) @ 100 KHz/0.1V with 8mA DC Bias	C <sub>w/w</sub> (pF Max)	L.L (uH Max)	Insertion Loss (dB Max)TX/RX	HI-POT (V <sub>AC</sub> )
	TX	RX				0.3-100MHz	
KLU1T041C-34 LF	1CT:1CT	1CT:1CT	350	28	0.4	-1.15	1500

#### Continue

Part Number	Return Loss (dB Min)					Cross talk (dB Min)TX/RX			CMR (dB Min)		
	30MHz	40MHz	50MHz	60MHz	80MHz	0.3-30MHz	30-60MHz	60-100MHz	1-30MHz	30-60MHz	60-125MHz
KLU1T041C-34 LF	-16	-14	-13.5	-13	-10	-40	-35	-30	-30	-25	-20

#### Schematic



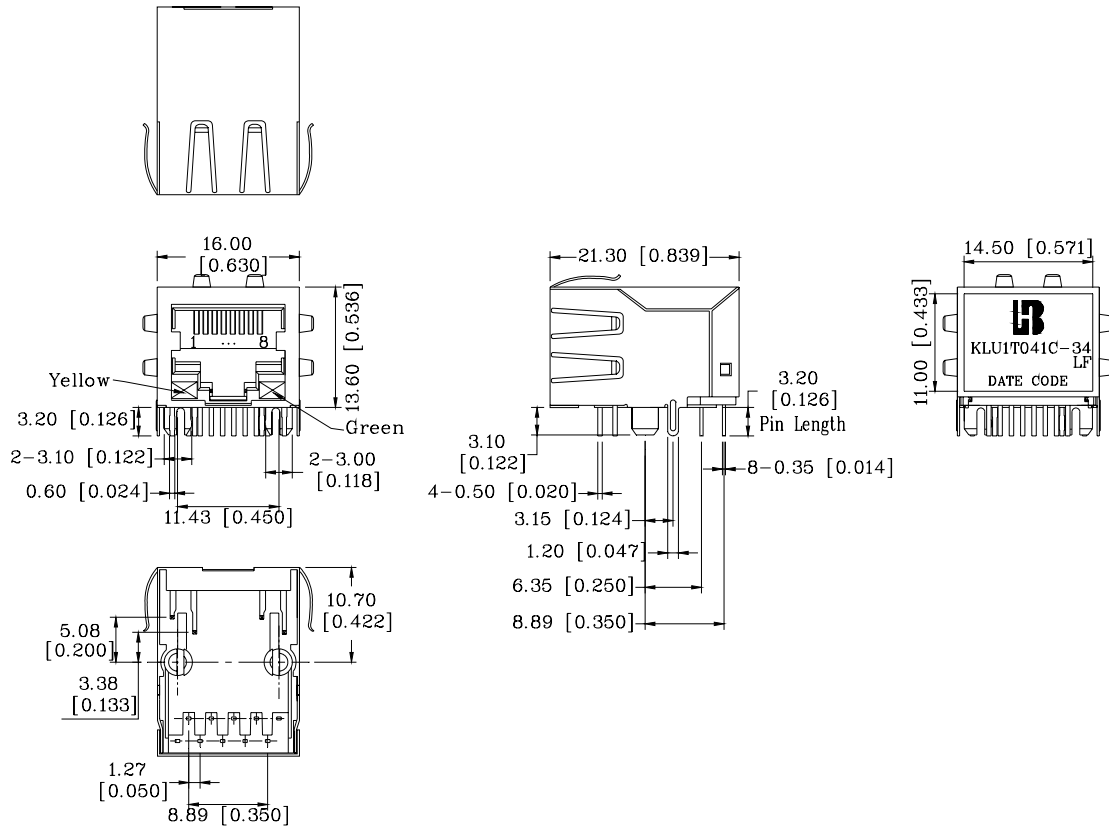
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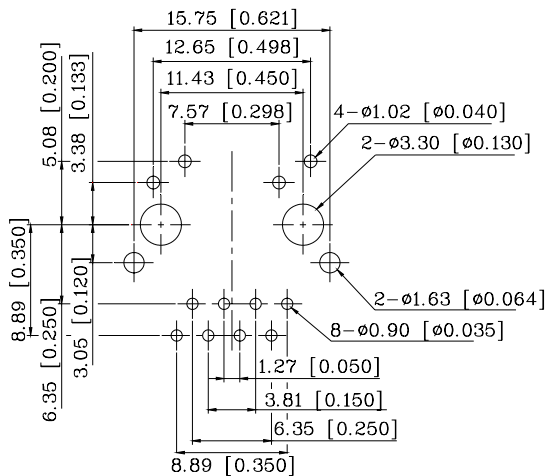
Page:2/2

#### Mechanical

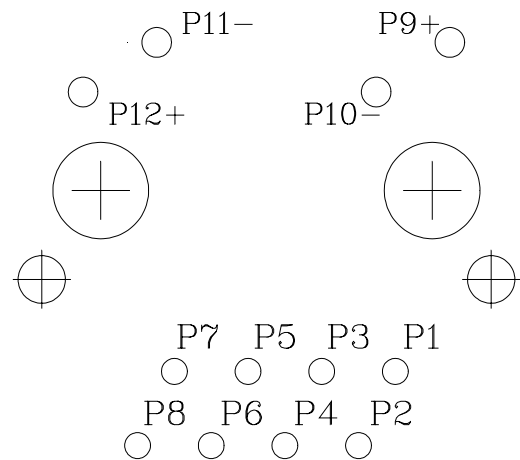


1. Plastic Material : Thermoplastic (UL 94V-0), Black Housing
2. Metal Shield : Brass, 20u" inches thick Nickel
3. Spring Wire : Phosphor bronze with selective gold plating
4. Solder Pin : 0.5x0.35mm, SUS430 with solder Plated
5. Durability : 750 Mating cycles Min.

#### PCB Layout Mounting Hole(Top View)



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



ZOOM