

“LAN-MATE” SERIES

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

P/N: KRU1T041X-44 LF

Page :1/2

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.
- 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)
4	GREEN	2.6V	2.2V
4	GREEN	2.6V	2.2V

V*With a forward current 20mA

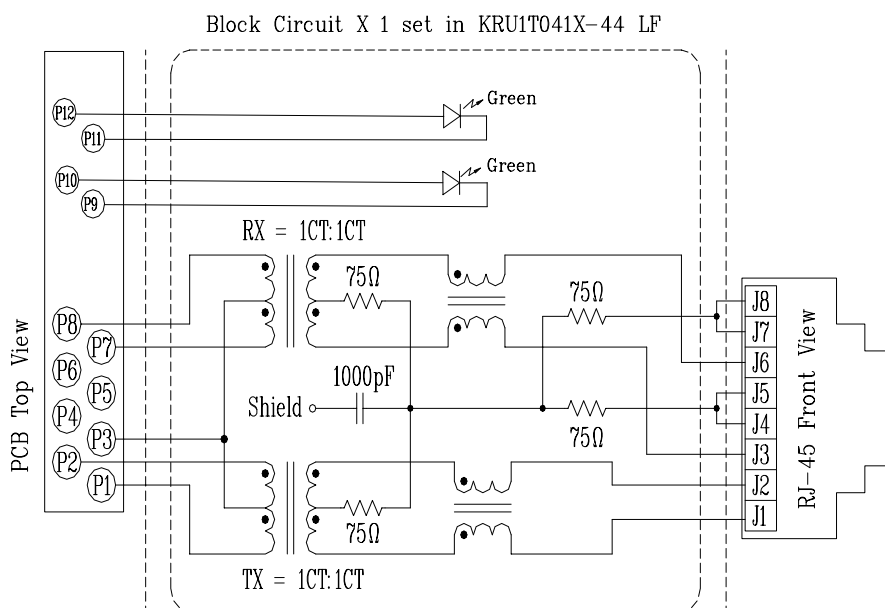
Electrical Specifications @ 25°C

Part Number	Turns Ratio (±5%)		OCL(uH Min) @ 100KHz/0.1V with 8mA DC Bias	Cross talk (dB Min)			HI-POT (Vrms)
	TX	RX		0.3-30MHz	30-60MHz	60-100MHz	
KRU1T041X-44 LF	1CT:1CT	1CT:1CT	350	-40	-35	-30	1500

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)					CMR (dB Min)		
	0.3-100MHz	30MHz	40MHz	50MHz	60MHz	80MHz	1-30MHz	30-60MHz	60-125MHz
KRU1T041X-44 LF	-1.15	-16	-14	-13.5	-13	-10	-30	-25	-20

Schematic



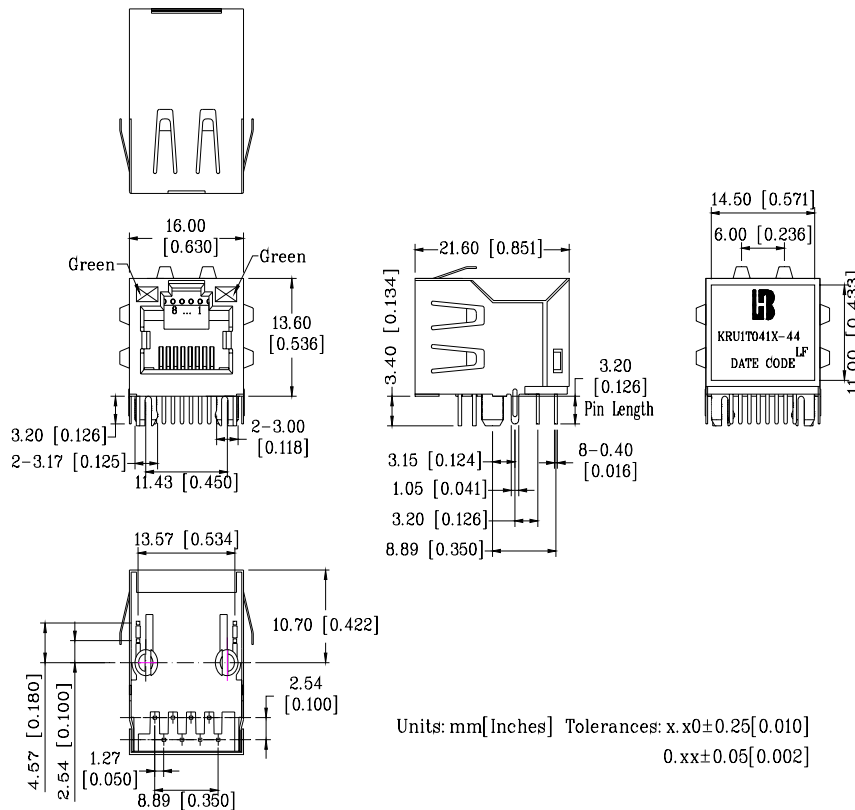
“LAN-MATE” SERIES

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

P/N: KRU1T041X-44 LF

Page :2/2

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 0.762×10^{-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)

