# LU1S041M-43

### "LAN-MATE" SERIES

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

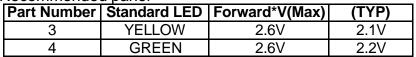
P/N: LU1S041M-43

# Feature



- RJ 45 connector with 10/100 BASE-TX magnetic.
- Meet UL safety standard.
- Includes integrated 2 LEDS(option).LED signal leads are isolated from the Ethernet signal leads to reduce EMI and cross talk.
- Operating temperature range: -40 to +85 .
- Storage temperature range: -40 to +85 .

Recommended panel

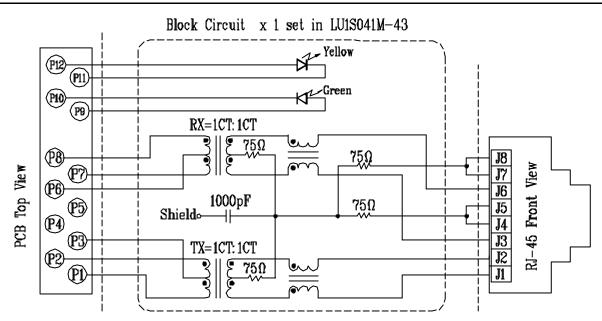


<sup>\*</sup>With a forward current 20mA

Electrical Specifications @ 25°C											
Part Number	Turns Ratio (±5%) TX/RX	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) 0.3-100MHz	HI-POT (Vrms)					
LU1S041M-43	1CT:1CT	350	28	0.4	-1.15	1500					

						Continue					
Part Number	Return Loss				Cross talk			CMR			
	(dB Min)				(dB Min)			(dB Min)			
	30MHz	40MHz	50MHz	60MHz	80MHz	0.3-30MHz	30-60MHz	60-100MHz	1-30MHz	30-60MHz	60-125MHz
LU1S041M-43	-16	-14	-13.5	-13	-10	-40	-35	-30	-30	-25	-20

## **Schematic**





### LU1S041M-43

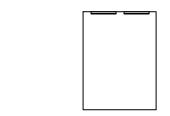
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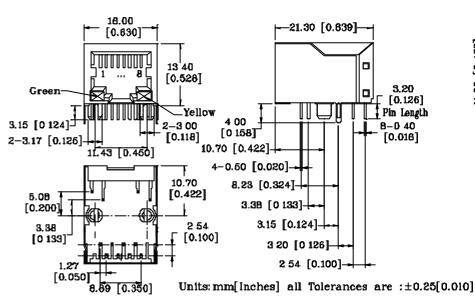
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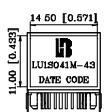
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Mechanical

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1. Plastic Material : Thermoplastic (UL 94V-0), Black Housing

2. Metal Shield : Brass, 20u" inches thick Nickel

3. Spring Wire
4. Solder Pin
5. Phosphor bronze with selective gold plating
6. 0.4x0.4mm, Phosphor bronze with solder Plated

5. Durability : 750 Mating cycles Min.

# PCB Layout Mounting Hole(Top View)

