

“LAN-MATE” SERIES

SINGLE RJ45 CONNECTOR MODULE WITH INTEGRATED 1000 BASE-T MAGNETICS AND LEDS

P/N:LA1S109L-43 LF

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Feature



- RJ-45 needs to be matched FCC standard
- Isolation @ 60Hz: Input to output:1500Vrms.
- 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°C to +70°C.
- Storage temperature range: -25°C to +125°C.
- 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

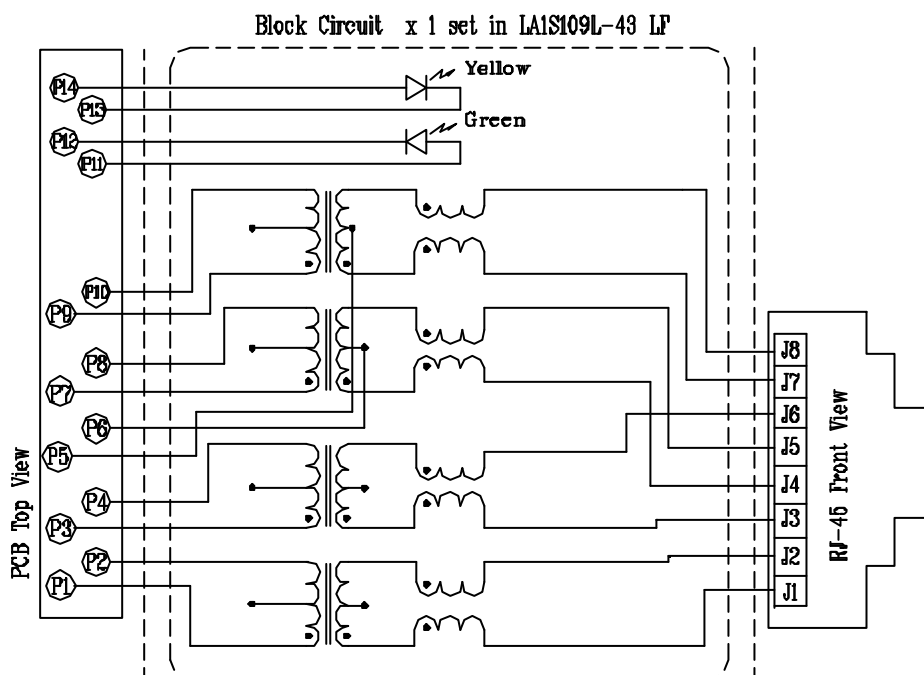
Electrical Specifications @ 25°C

Part Number	Turns Ratio (±5%)		OCL (uH Min) @ 100KHz/0.1V with 8mA DC Bias	Cross talk (dB Min)			Differential to Common Mode Rejection (dB Min)		
	TX	RX		0.3-30MHz	30-60MHz	60-100MHz	1-30MHz	30-60MHz	60-100MHz
LA1S109L-43 LF	1CT: 1CT	1CT: 1CT	350	-45	-43	-42	-43	-37	-33

Continue

Part Number	Insertion Loss (dB Max)	Return Loss (between adjacent channels) (dB Min) @ Load 100Ω					CMR (dB Min)			HI-POT (Vrms)
	1-100MHz	1-30MHz	30-40MHz	40-50MHz	50-80MHz	100MHz	1-30MHz	30-60MHz	60-125MHz	
LA1S109L-43 LF	-1	-18	-18	-16	-12	-10	-30	-25	-20	1500

Schematic



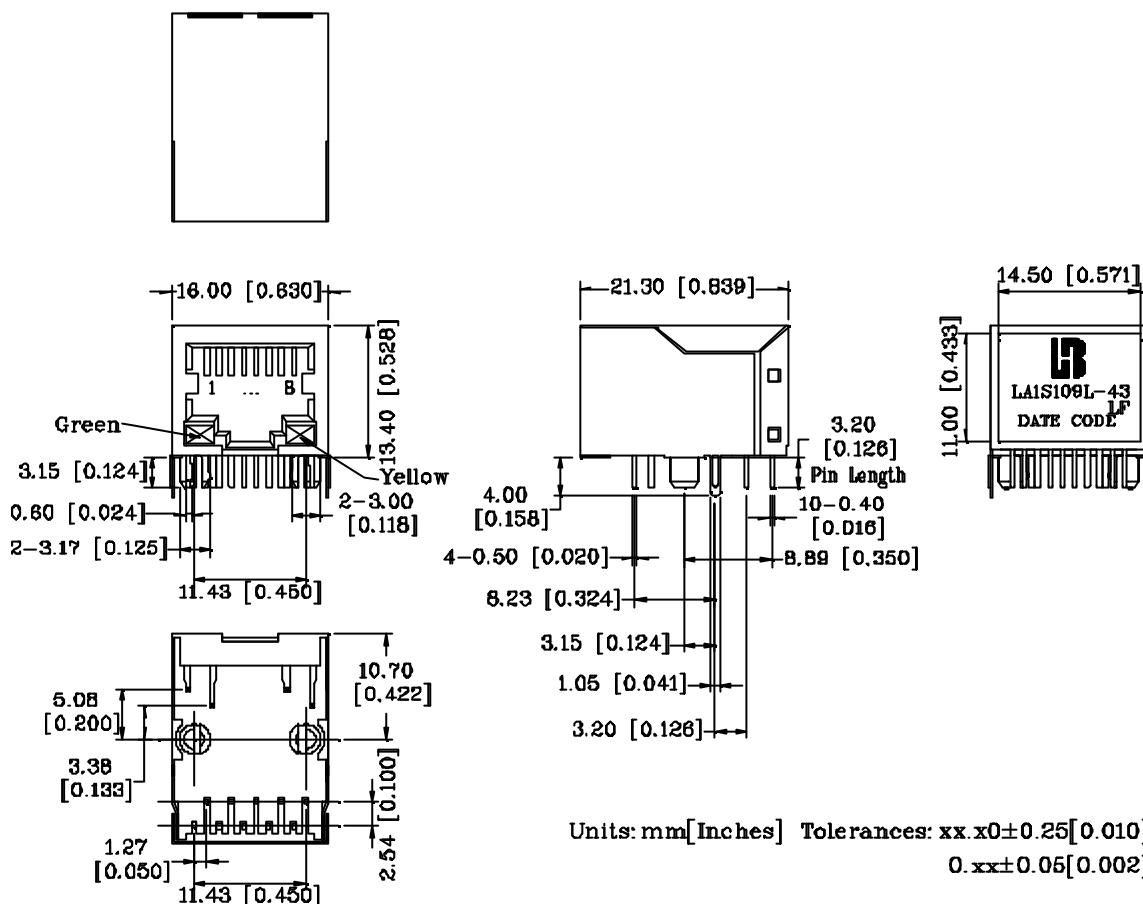
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Mechanical



- | | |
|---------------------|---|
| 1. Plastic Material | : Thermoplastic (UL 94V-0), Black Housing |
| 2. Metal Shield | : Brass, 20u" inches thick Nickel |
| 3. Spring Wire | : Phosphor bronze selective gold plating |
| 4. Solder Pin | : 0.4x0.4mm, Phosphor bronze with solder Plated |
| 5. Durability | : 750 Mating cycles Min. |

PCB Layout Mounting Hole(Top View)

