

## “LAN-MATE” SERIES

### SINGLE RJ45 CONNECTOR MODULE WITH INTEGRATED 1000 BASE-T MAGNETICS

- Isolation @ 60Hz : Input to output:1500Vrms
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -25°C to +125°C.



#### Electrical Specifications @ 25°C

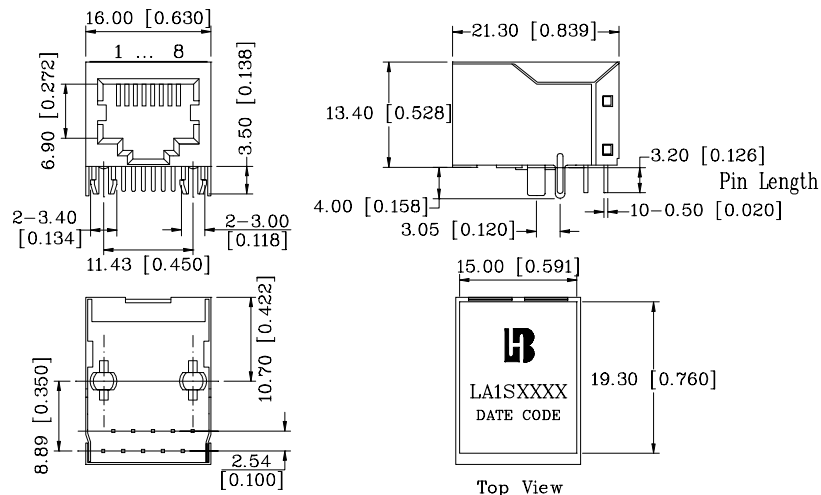
Part Number	Turns Ratio (±5%)		OCL (uH Min) @ 100KHz/0.1V with 8mA DC Bias	Cross talk (dB Min)			HI-POT (Vrms)
	TX	RX		0.3-30MHz	30-60MHz	60-100MHz	
LA1S109	1CT:1CT	1CT:1CT	350	-40	-35	-30	1500

#### Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min) @ Load 100Ω				CMR (dB Min)		
		1-100MHz	1-30MHz	30-40MHz	40-50MHz	50-80MHz	1-30MHz	30-60MHz
LA1S109	-1.0	-16	-13.5	-11.5	-10	-30	-25	-20

#### Mechanicals

##### LA1SXXXX



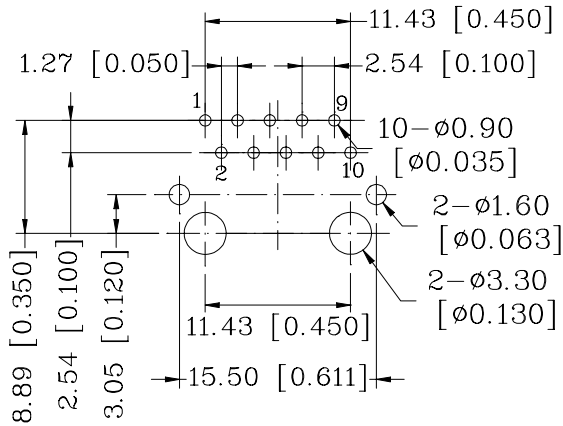
Units: mm[Inches] Tolerances: xx.x0±0.25[0.010]  
 0.xx±0.05[0.002]

1. Plastic Material : Thermoplastic (UL 94V-0), Black Housing
2. Metal Shield : Brass , 20u inches thick Nickel
3. Spring Wire : 0.45mm Dia. Phosphor bronze with selective gold plating
4. Solder Pin : 0.4x0.4mm, Phosphor bronze with solder Plated
5. Durability : 300 Mating cycles Min.

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**SINGLE RJ45 CONNECTOR MODULE WITH INTEGRATED**  
**1000 BASE-T MAGNETICS**

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

LA1SXXXX



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

**Schematics**

LA1S109

