

# 1000 BASE –T MAGNETICS MODULES

## P/N: G1PM109N1 LF DATA SHEET

### Feature

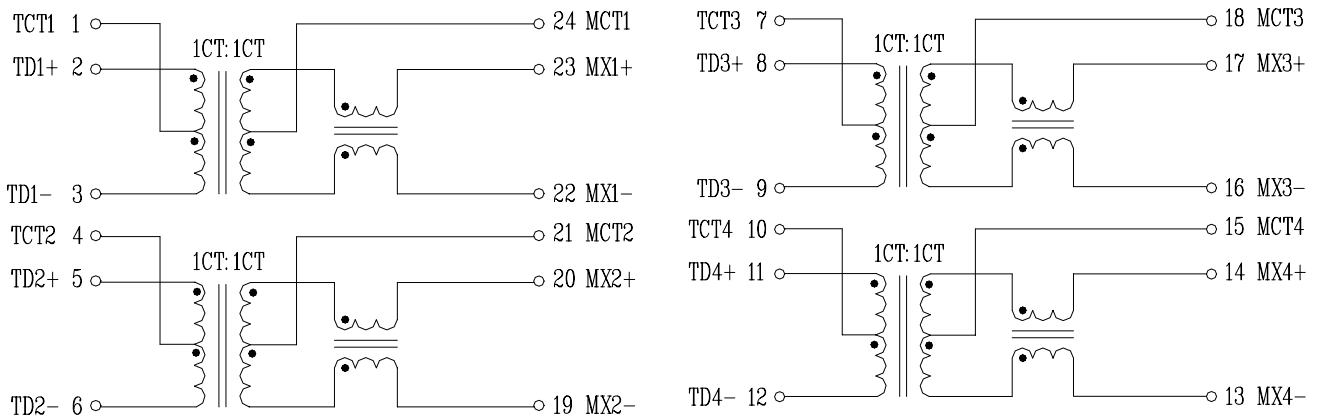


- Designed for long haul gigabit Ethernet 1000 BASE-T, full duplex applications.
- Supports 4 pairs of category 5 UTP cable.
- Cable interface for isolation and low common mode emissions.
- Compliant with IEEE 802.3ab standard for 1000 BASE-T.
- Compliance with ROHS requirements.
- Operating temperature range: 0 to +70 .
- Storage temperature range: -25 to +105 .

Electrical Specifications @ 25°C							
Part Number	Turns Ratio (±5%)		OCL (uH Min) @100KHz/0.1V with 8mA DC Bias	Cross talk Attenuation (dB Min)			HI-POT (Vrms)
	TX	RX		30MHz	60MHz	100MHz	
G1PM109N1 LF	1CT:1CT	1CT:1CT	350	-45	-40	-35	1500

Continue									
Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)@Load 100					DCMR (dB Min)		
		1-100MHz	1-30MHz	40MHz	50MHz	60-80MHz	100MHz	30MHz	60MHz
G1PM109N1 LF	-1.0	-18	-14.4	-13.1	-12	-10	-43	-37	-33

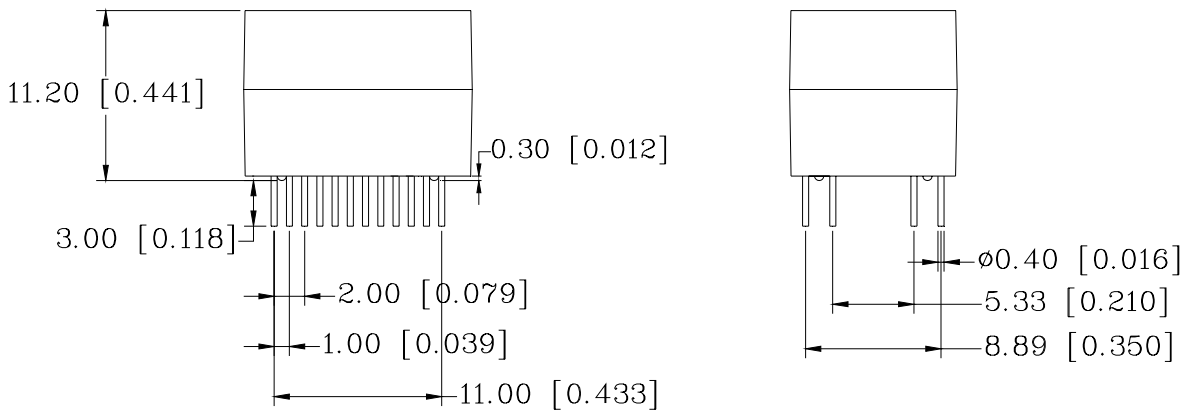
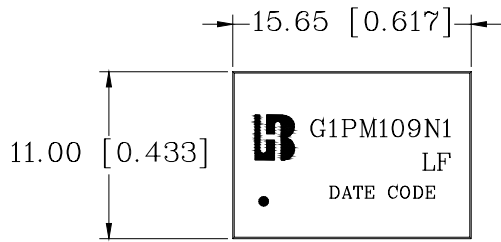
### Schematic



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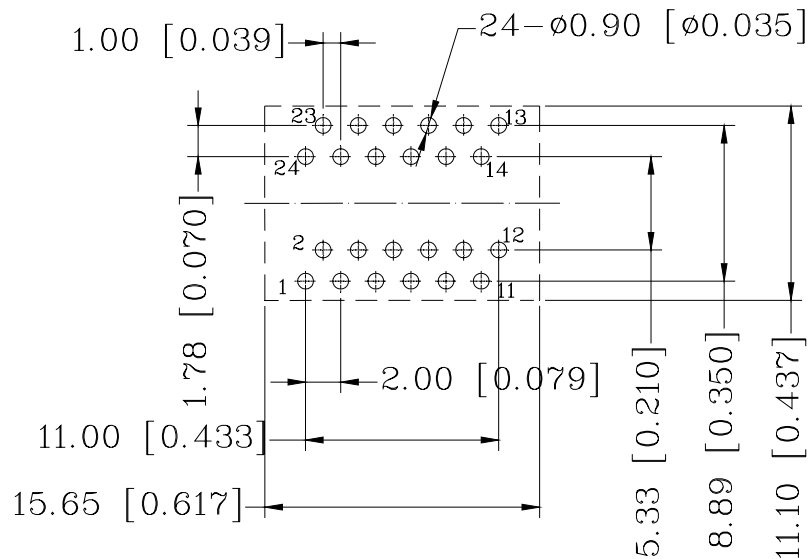
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### Mechanical



Units: mm[Inches] Tolerances XX.X0 : ±0.25[0.010]  
0.XX : ±0.05[0.002]

### PCB Layout mounting Hole ( Top View )



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