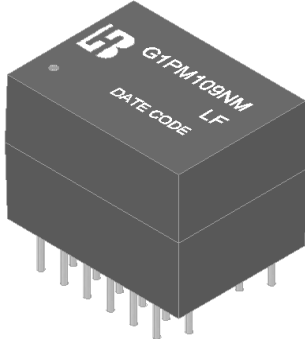


# 1000 BASE –T MAGNETICS MODULES

P/N: G1PM109NM 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: -40°C to +85°C.
- Storage temperature range: -40°C to +85°C.

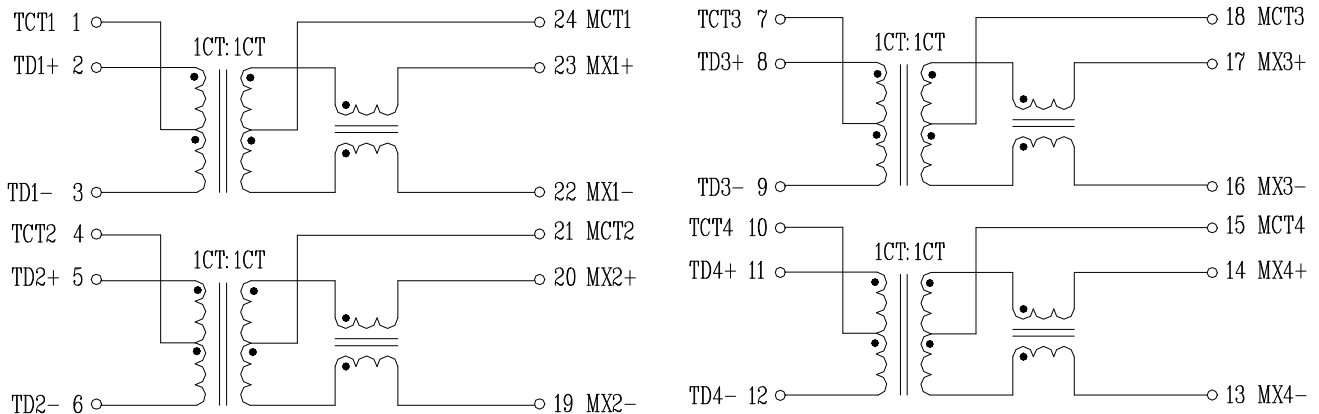
## Electrical Specifications @ 25°C

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	
G1PM109NM LF	1CT:1CT	1CT:1CT	350	-45	-40	-35	1500

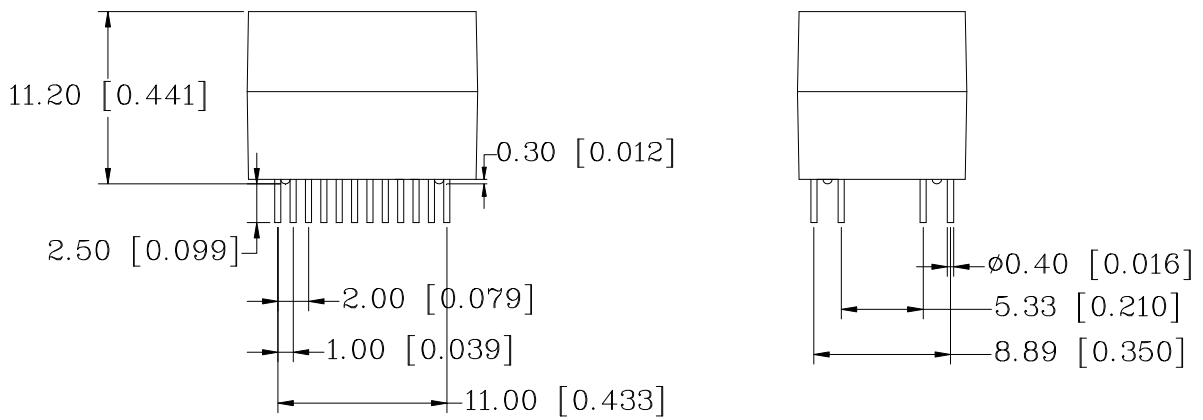
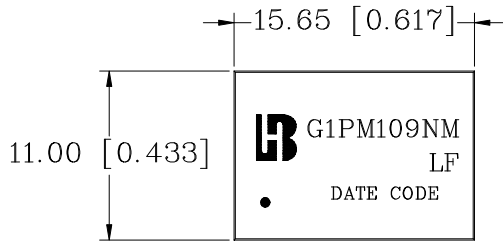
## Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)@Load 100Ω					DCMR (dB Min)		
		1-100MHz	1-30MHz	40MHz	50MHz	60-80MHz	100MHz	30MHz	60MHz
G1PM109NM LF	-1.0	-18	-14.4	-13.1	-12	-10	-43	-37	-33

## Schematic

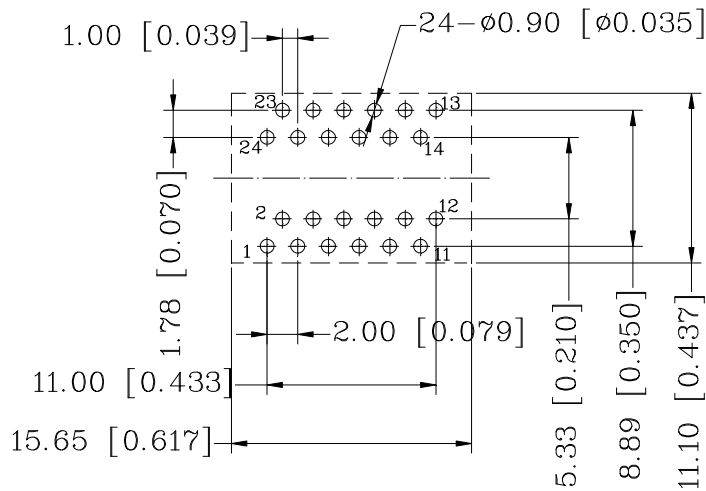


**Mechanical**



Units: mm[Inches] Tolerances XX.X0 :  $\pm 0.25$ [0.010]  
 0.XX :  $\pm 0.05$ [0.002]

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



Units: mm[Inches] Tolerance: xx.x0 $\pm 0.25$ [0.010]  
 0.xx $\pm 0.05$ [0.002]