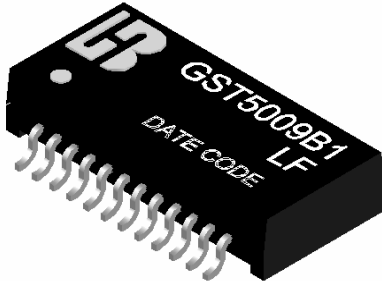


1000 BASE –T MAGNETICS MODULES

P/N: GST5009B1 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.
- Comply with ROHS & Halogen Free requirements.
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -25°C to +85°C.

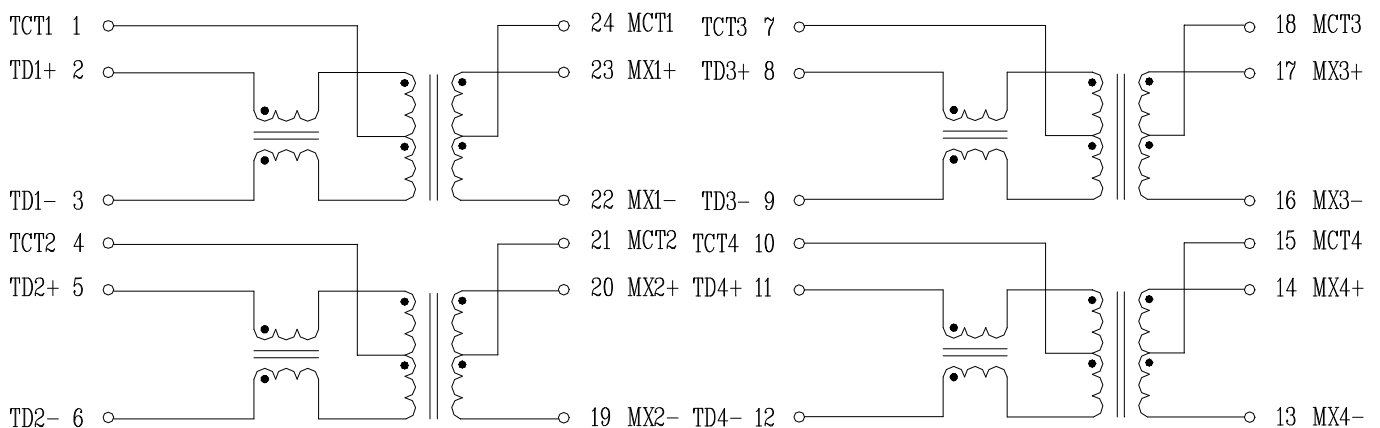
Electrical Specifications @ 25°C

Part Number	Turns Ratio (±5%)		OCL (uH Min) @100KHz/0.1V with 8mA DC Bias	Cw/w (pF Max)	L.L (uH Max)	Cross talk Attenuation (dB Min)			DCR (Ω Max) PRI	HI-POT (Vrms)
	TX	RX				30MHz	60MHz	100MHz		
GST5009B1 LF	1CT:1CT	1CT:1CT	350	28	0.4	-45	-40	-35	0.9	1500

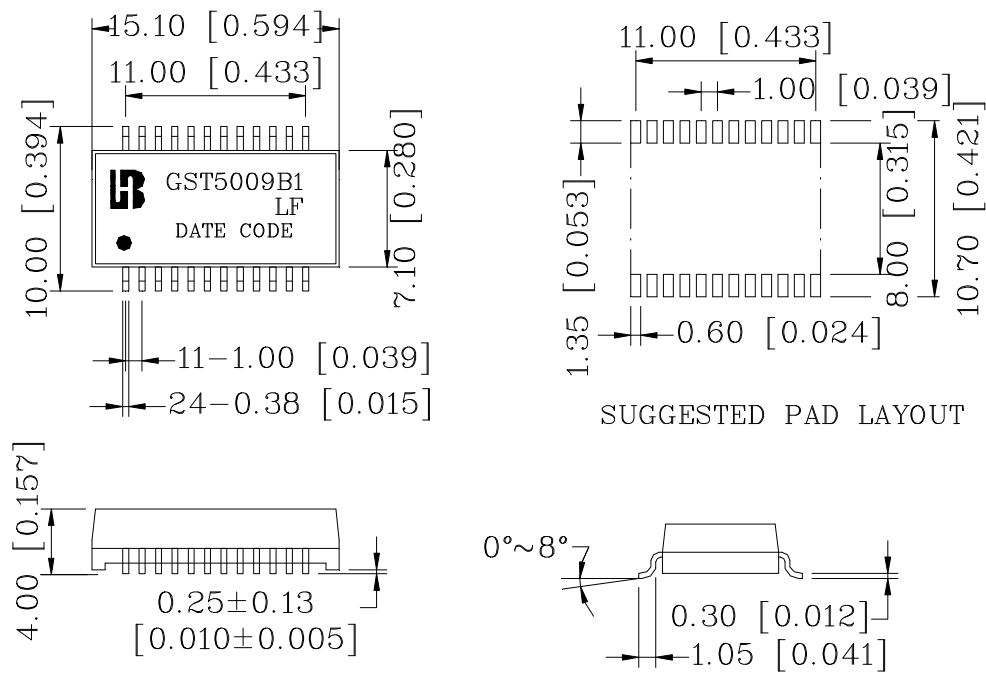
Continue

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	100MHz
GST5009B1 LF	-1.0	-18	-14.4	-13.1	-12	-10	-40	-35	-30

Schematic



Mechanical



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