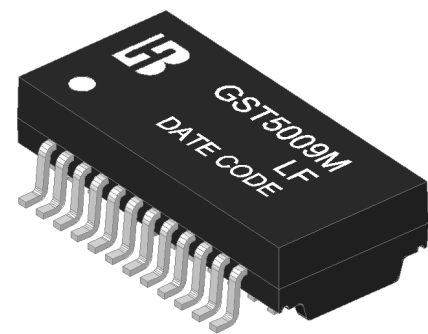


1000 BASE -T MAGNETICS MODULES  
P/N: GST5009M LF DATA SHEET



Feature

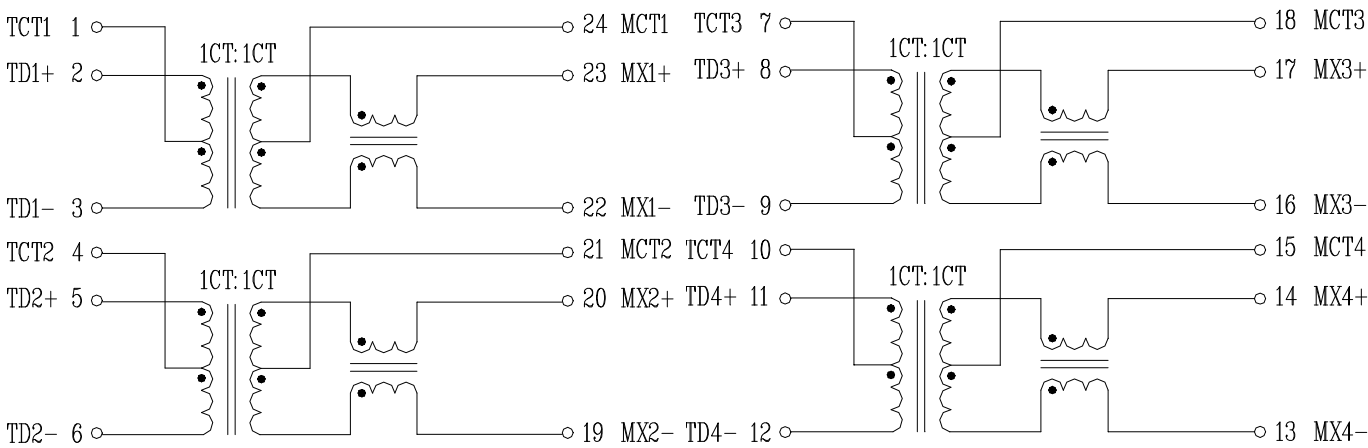


- Designed for long haul gigabit Ethernet 1000 BASE-T, full duplex applications.
- Supports 4 pairs of category 5 UTP cable.
- Cable interface for isolation and low common mode emissions.
- Complying with IEEE 802.3ab standard for 1000 BASE-T.
- Suitable for End-span POE applications with 350mA current capability.
- Complying with ROHS & Halogen Free 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)<br>@100KHz/0.1V<br>with 8mA DC Bias | Cross talk (dB Min) |       |        | HI-POT (Vrms) |
|                                  | TX                | RX      |                                                  | 30MHz               | 60MHz | 100MHz |               |
| GST5009M 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 | 100MHz |
| GST5009M LF | -1.0                    | -18                             | -14.4 | -13.1 | -12      | -10    | -40           | -35   | -30    |

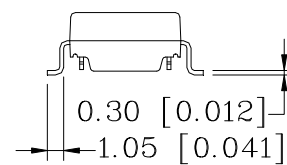
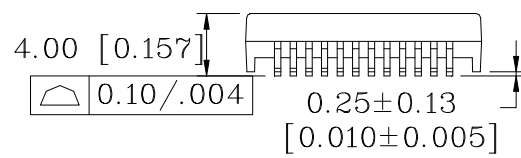
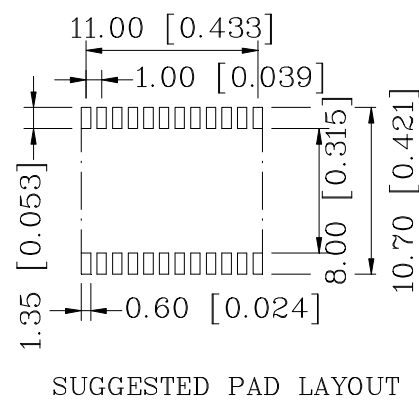
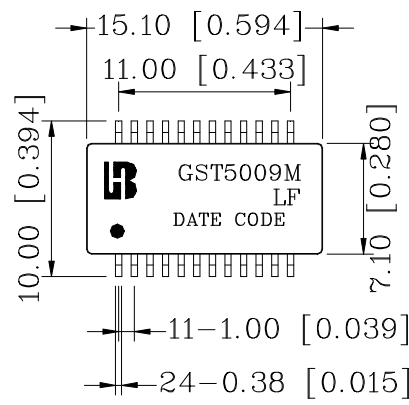
Schematic



1000 BASE -T MAGNETICS MODULES  
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Mechanical



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