

# 1000 BASE –T MAGNETICS MODULES

## P/N: GSN5008 DATA SHEET

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### 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.
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -25°C to +125°C.

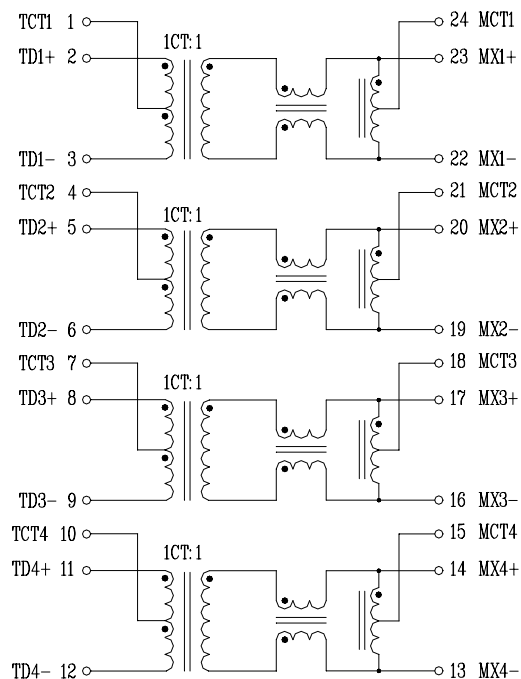
### Electrical Specifications @ 25°C

| Part Number | Turns Ratio<br>(±5%) |       | Voltage Isolation<br>(Vrms) |  |  |
|-------------|----------------------|-------|-----------------------------|--|--|
|             | TX                   | RX    |                             |  |  |
| GNS5008     | 1CT:1                | 1CT:1 | 1500                        |  |  |

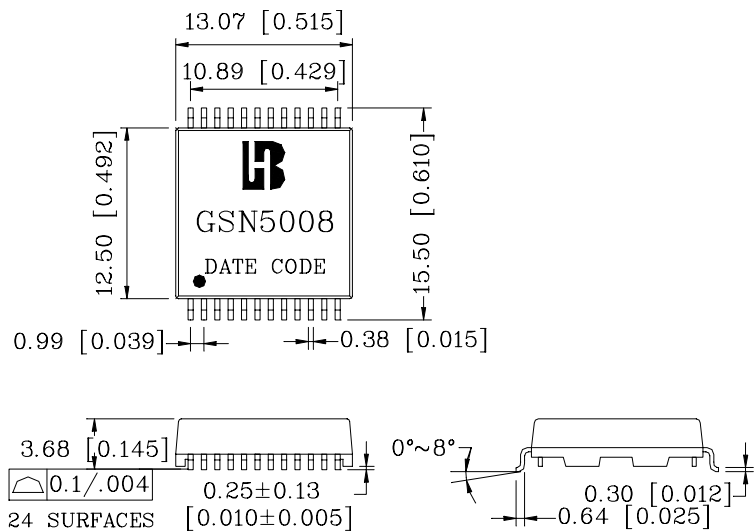
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| Part Number | Insertion Loss<br>(dB Max.) | Return Loss<br>(dB Min @ 100 Ω) |       |       |          |        | Cross talk Attenuation<br>(dB Min) |       |        | DCMR<br>(dB Min) |       |        |
|-------------|-----------------------------|---------------------------------|-------|-------|----------|--------|------------------------------------|-------|--------|------------------|-------|--------|
|             | 1-100MHz                    | 1-30MHz                         | 40MHz | 50MHz | 60-80MHz | 100MHz | 30MHz                              | 60MHz | 100MHz | 30MHz            | 60MHz | 100MHz |
| GNS5008     | -1.0                        | -18                             | -14.4 | -13.1 | -12      | -10    | -45                                | -40   | -35    | -43              | -37   | -33    |

### Schematic



### Mechanical



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