

10/100/1000 Base T Gigabit Dual Port Transformer

- LL: 0.5uH Max @ 100KHz, 200mV
- DCR: 1.4Ω Max
- Cw/w: 25PF TYP @ 100KHz, 200mV
- Operating Temp: 0°C to +70°C

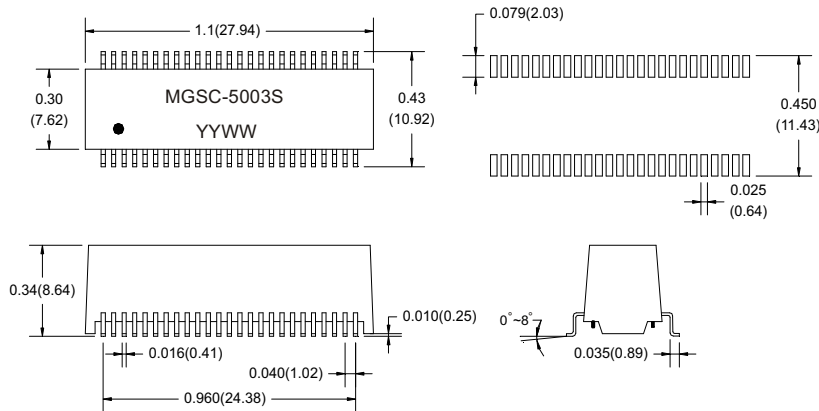
Electrical Specifications @25°C

| Part Number | OCL(μH Min) @ 100kHz, 0.2V With 8mA DC Bias | Turns Ratio chip: cable (±5%) | Insertion Loss (dB Max) | Return Loss (dB Min) | | | | |
|-------------|---|-------------------------------------|----------------------------|-------------------------|-------|-------|--------|--|
| | 1-100MHz | | | 1-40MHz | 60MHz | 80MHz | 100MHz | |
| MGSC-5003S | 350 | 1CT:1CT(TX)/1CT:1CT(RX) | -1.1 | -18 | -14 | -12 | -10 | |

Electrical Specifications @25°C

| Part Number | Cross Talk (dB Min) | | | Common Mode Rejection (dB Min) | Isolation HI-POT (Vrms) |
|-------------|------------------------|-------|--------|-----------------------------------|-------------------------------|
| | 30MHz | 60MHz | 100MHz | | |
| MGSC-5003S | -40 | -35 | -30 | -30 | 1500 |

MECHANICAL



Dimensions: mm(inch)
Unless otherwise specified, all tolerances are ±0.25(0.010)

SCHEMATICS

