

# 10/100 Base T Quad Port Transformer

- DCR: 0.9Ω Max
- Cw/w: 50PF TYP @ 100KHz, 0.2V
- LL: 0.5uH Max @ 100KHz, 0.2V
- Polarity: 1-40, 4-37, 6-35, 9-32, 11-30, 14-27, 16-25, 19-22, In-Phase
- Operating Temp: -40°C to +85°C

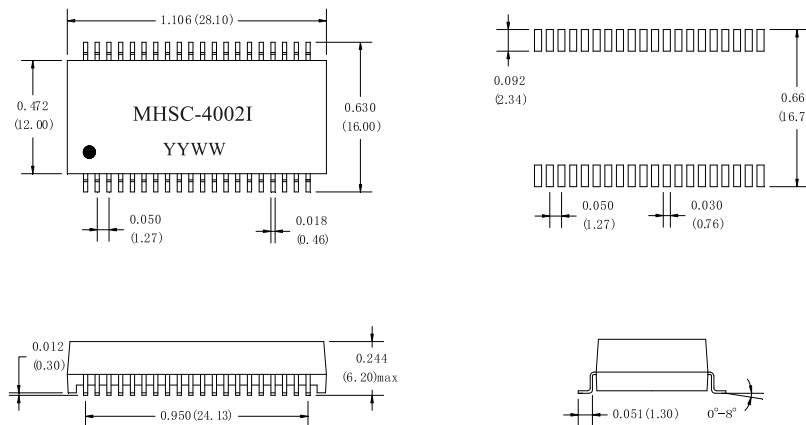
## Electrical Specifications @25°C

| Part Number | OCL(uH Min)<br>@ 100kHz, 200mV | Turns Ratio<br>chip: cable<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |       |       |          |
|-------------|--------------------------------|-------------------------------------|----------------------------|-------------------------|-------|-------|----------|
|             | With 8mA DC Bias               |                                     | 0.3-100MHz                 | 0.3-30MHz               | 40MHz | 50MHz | 60-80MHz |
| MHSC-4002I  | 350                            | 1CT:1CT(TX)/1CT:1CT(RX)             | -1.1                       | -18                     | -14.4 | -13.1 | -12      |

## Electrical Specifications @25°C

| Part Number | Common Mode Rejection<br>(dB Min) |       |           | Cross Talk<br>(dB Min) |           | Isolation<br>HI-POT<br>(Vrms) |
|-------------|-----------------------------------|-------|-----------|------------------------|-----------|-------------------------------|
|             | 0.3-30MHz                         | 60MHz | 80-100MHz | 0.3-30MHz              | 60-100MHz |                               |
| MHSC-4002I  | -40                               | -35   | -30       | -42                    | -33       | 1500                          |

## MECHANICAL



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

## SCHEMATICS

