



# 10/100 BASE-T ETHERNET ISOLATION TRANSFORMER

P/N: ML16S19HF

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## Feature



- Designed to meet IEEE 802.3u requirement, including 350uH OCL with 8mA bias.
- Comply with ROHS & Halogen Free requirements.
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -10°C to +85°C.

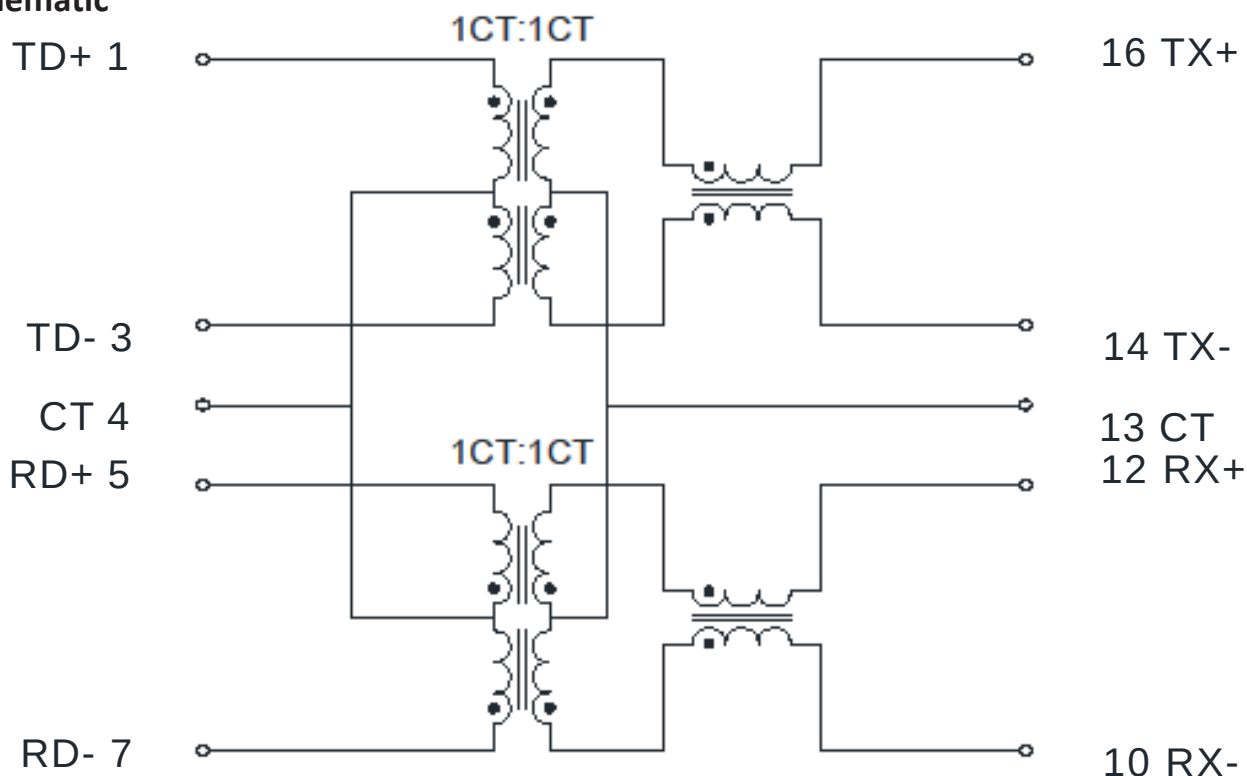
## Electrical Specifications@25°C

| Part Number | Turns Ratio (±5%) |          | OCL(uH Min)<br>@100KHz/0.1V<br>With 8mA DC Bias | Cw/w<br>(pF Typ) | L.L<br>(uH Max) | DCR (Ω Max) |            | HI-POT<br>(Vrms) |
|-------------|-------------------|----------|-------------------------------------------------|------------------|-----------------|-------------|------------|------------------|
|             | 1-3:16-14         | 6-8:11-9 |                                                 |                  |                 | 1-3/6-8     | 16-14/11-9 |                  |
| ML16S19HF   | 1CT:1CT           | 1CT:1CT  | 350                                             | 50               | 0.5             | 0.9         | 1.1        | 1500             |

## Continue

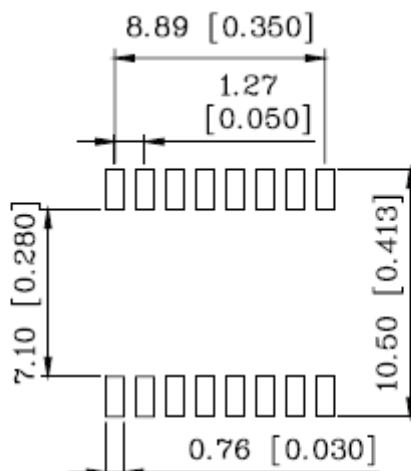
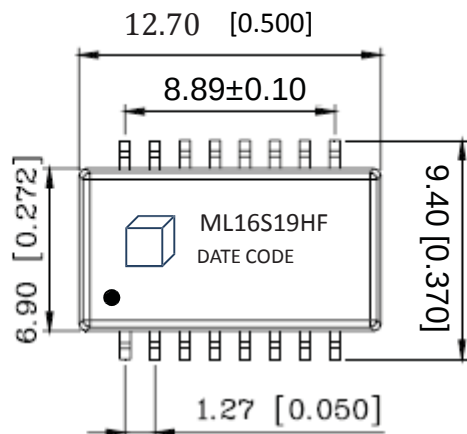
| Part Number | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |       |       |          | Cross talk<br>(dB Min) |           | DCMR<br>(dB Min) |       |        |
|-------------|----------------------------|-------------------------|-------|-------|----------|------------------------|-----------|------------------|-------|--------|
|             | 1-100MHz                   | 0.3-30MHz               | 40MHz | 50MHz | 60-80MHz | 0.3-60MHz              | 60-100MHz | 30MHz            | 60MHz | 100MHz |
| ML16S19HF   | -1.1                       | -18                     | -15.5 | -13   | -12      | -45                    | -35       | -40              | -35   | -30    |

## Schematic

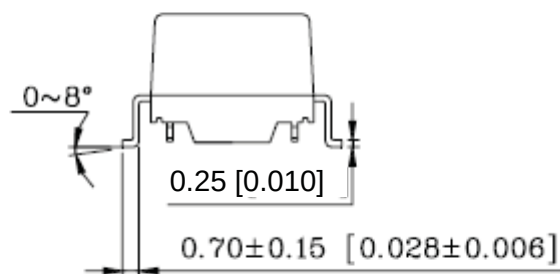
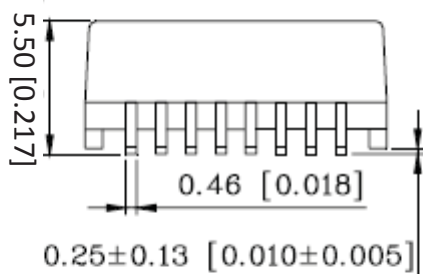




Mechanical



SUGGESTED PAD LAYOUT



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