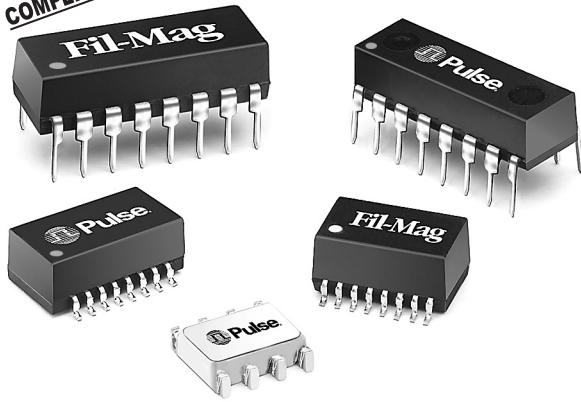


# ISOLATION TRANSFORMERS FOR 10BASE-T

For Adapter Cards, MAUs, Hubs,  
and Motherboard Applications



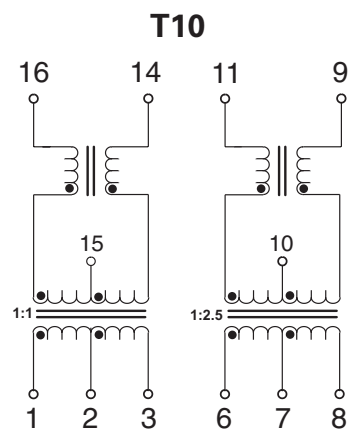
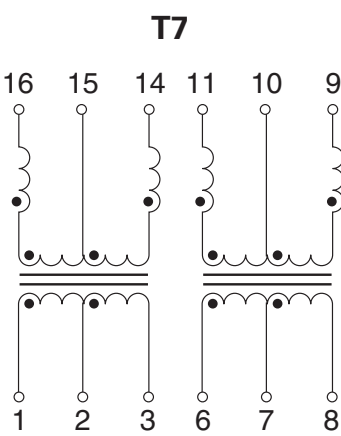
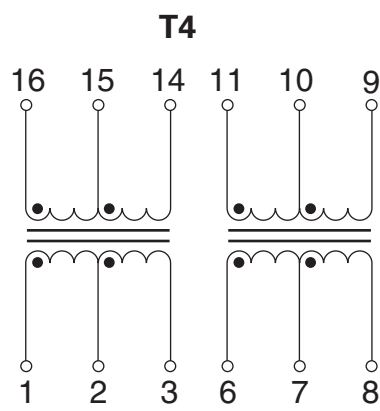
-  Peak solder temperature ratings per table 5-2 in IPC/JEDEC J-STD-020
-  Meets IEEE 802.3 specification
-  Available with common mode chokes for EMI suppression
-  Through hole, auto-insertable, 16-pin DIP package

## Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

| Part <sup>2</sup><br>Number | Turns Ratio<br>(±5%) |          | Primary<br>Pins | Common<br>Mode<br>Choke | Sine Wave<br>Inductance<br>OCL<br>(μH MIN) | Interwinding<br>Capacitance<br>C <sub>ww</sub> <sup>1</sup><br>(pF MAX) | Leakage<br>Inductance<br>L <sub>L</sub> <sup>1</sup><br>(μH MAX) | DCR<br>(Ω MAX) | Hipot<br>(Vrms) | Schem. | Mech      |           |
|-----------------------------|----------------------|----------|-----------------|-------------------------|--------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------|----------------|-----------------|--------|-----------|-----------|
|                             | Transmit             | Receive  |                 |                         |                                            |                                                                         |                                                                  |                |                 |        |           |           |
| SURFACE MOUNT <sup>2</sup>  |                      |          |                 |                         |                                            |                                                                         |                                                                  |                |                 |        | PAGES 6-7 | PAGES 8-9 |
| 23Z467SMNL <sup>4a</sup>    | 1CT:2CT              | 1CT:1CT  | 6-8/1-3         | ✓                       | 140                                        | 12                                                                      | 0.2                                                              | 0.6            | 2000            | T7     | SMT5      |           |
| E2023NL <sup>4a</sup>       | 1CT: 2.5CT           | 1CT: 1CT | 6-8/1-3         | ✓                       | 200                                        | 15                                                                      | 0.5                                                              | 0.4            | 2000            | T10    | SMT4      |           |
| EX2024NL <sup>4a</sup>      | 1CT: 2.5CT           | 1CT:1CT  | 6-8/1-3         | ✓                       | 350                                        | 30                                                                      | 0.8                                                              | 0.6            | 2000            | T10    | SMT4      |           |
| PE-65745 <sup>4c</sup>      | 1CT: 1.414CT         | 1CT:1CT  | 6-8/1-3         | —                       | 140                                        | 12                                                                      | 0.2                                                              | 0.3            | 1500            | T4     | SMT4      |           |

1. OCL, C<sub>ww</sub> and L<sub>L</sub> are measured at 20 mVrms, 100 kHz.
2. For Tape & Reel packaging, add the suffix "T" to the end of the part number when ordering. e.g. E2023NL.
3. Part numbers denoted "EX" are extended temperature parts -40°C to 85°C, electrical specifications @ 25°C.
4. MSL = Moisture Sensitivity Level a=1 b=2 c=3 d=4

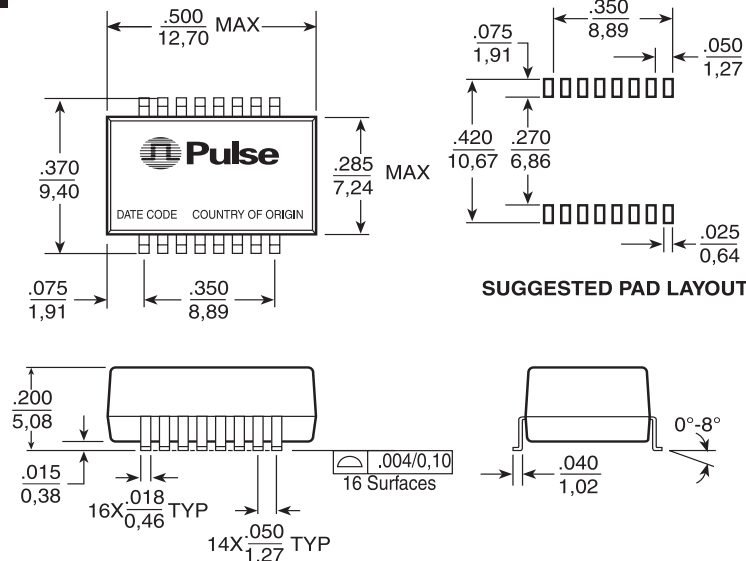
Schematics



PINS 4, 5, 12 AND 13 NOT CONNECTED.

## Surface Mount Mechanicals

### SMT4



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0,25}$

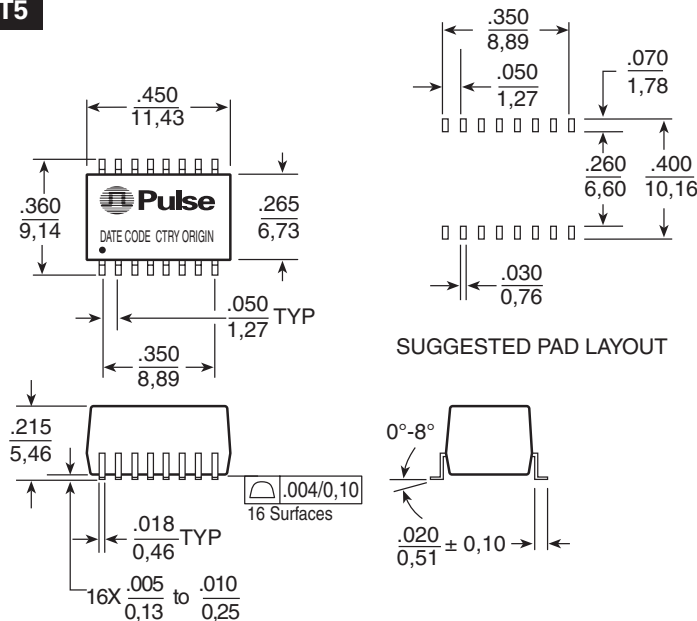
Weight ..... 0.82 grams

Tube ..... .40/tube

Tape & Reel ..... 900/reel

## Through Hole Mechanicals

### SMT5



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are  $\pm \frac{.005}{0,13}$

Weight ..... 0.85 grams

Tube ..... .50/tube

Tape & Reel ..... 750/reel

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