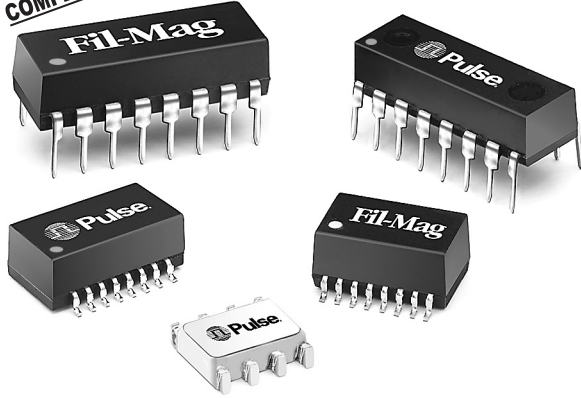






ISOLATION TRANSFORMERS FOR 10BASE-T

For Adapter Cards, MAUs, Hubs,
and Motherboard Applications



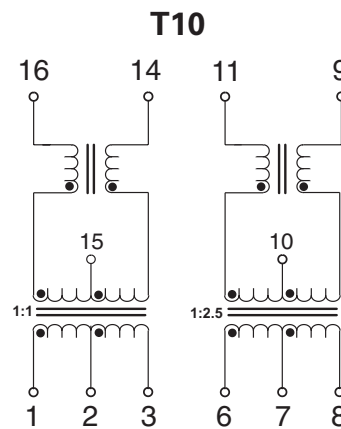
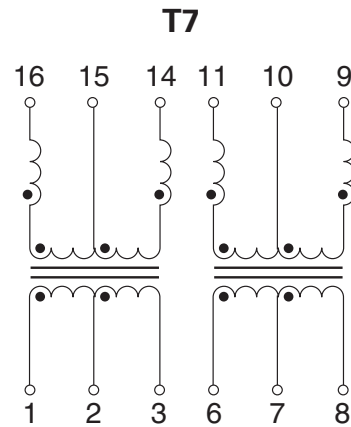
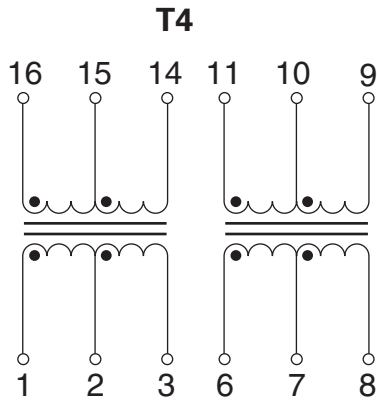
-  Peak solder temperature ratings per table 5-2 in IPC/JEDEC J-STD-020
-  Meets IEEE 802.3 specification
-  Available with common mode chokes for EMI suppression
-  Through hole, auto-insertable, 16-pin DIP package

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

| Part ² Number | Turns Ratio (±5%) | | Primary Pins | Common Mode Choke | Sine Wave Inductance OCL (μH MIN) | Interwinding Capacitance C _{ww} ¹ (pF MAX) | Leakage Inductance L _l ¹ (μH MAX) | DCR (Ω MAX) | Hipot (Vrms) | Schem. | Mech | |
|----------------------------------|----------------------|----------|-----------------|-------------------------|--|---|--|----------------|-----------------|--------|-----------|-----------|
| | Transmit | Receive | | | | | | | | | | |
| SURFACE MOUNT² | | | | | | | | | | | PAGES 6-7 | PAGES 8-9 |
| 23Z467SMNL ^{4a} | 1CT:2CT | 1CT:1CT | 6-8/1-3 | ✓ | 140 | 12 | 0.2 | 0.6 | 2000 | T7 | SMT5 | |
| E2023NL ^{4a} | 1CT: 2.5CT | 1CT: 1CT | 6-8/1-3 | ✓ | 200 | 15 | 0.5 | 0.4 | 2000 | T10 | SMT4 | |
| EX2024NL ^{4a} | 1CT: 2.5CT | 1CT:1CT | 6-8/1-3 | ✓ | 350 | 30 | 0.8 | 0.6 | 2000 | T10 | SMT4 | |
| PE-65745 ^{4c} | 1CT: 1.414CT | 1CT:1CT | 6-8/1-3 | — | 140 | 12 | 0.2 | 0.3 | 1500 | T4 | SMT4 | |

1. OCL, C_{ww} and L_l 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

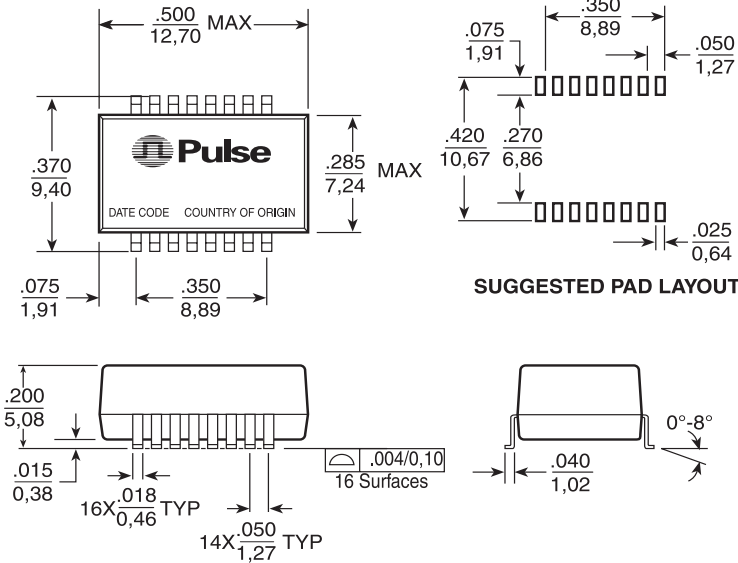
Schematics



PINS 4, 5, 12 AND 13 NOT CONNECTED.

Surface Mount Mechanicals

SMT4



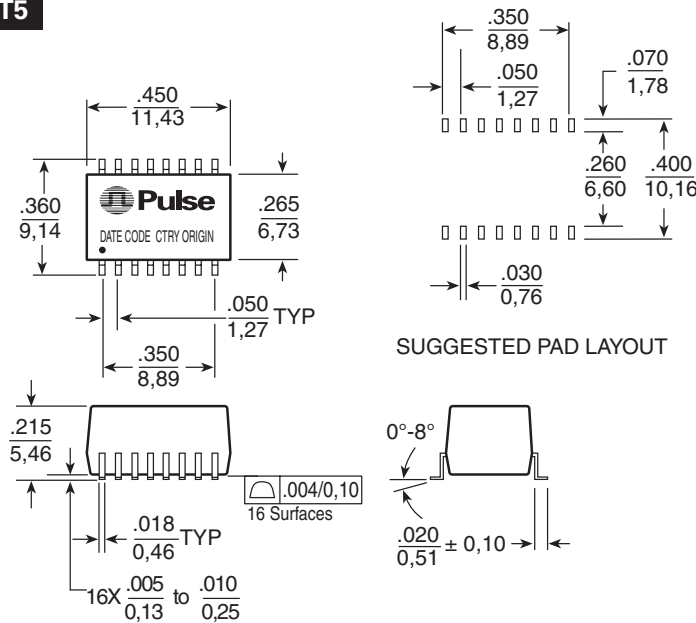
Dimensions: Inches
mm

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

Weight 0.82 grams
 Tube40/tube
 Tape & Reel 900/reel

Through Hole Mechanicals

SMT5



Dimensions: Inches
mm

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

Weight 0.85 grams
 Tube50/tube
 Tape & Reel 750/reel

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