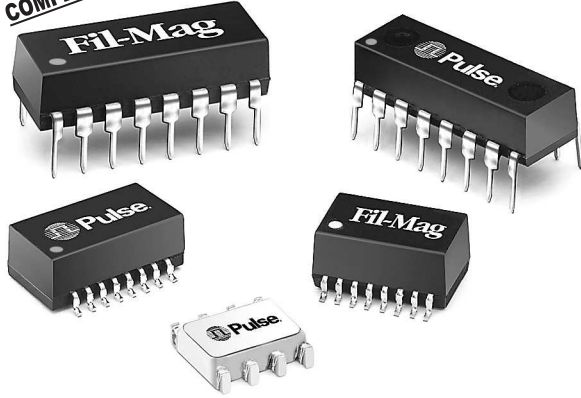






# ISOLATION TRANSFORMERS FOR 10BASE-T

For Adapter Cards, MAUs, Hubs,  
and Motherboard Applications



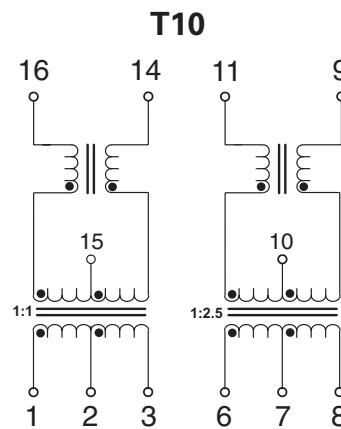
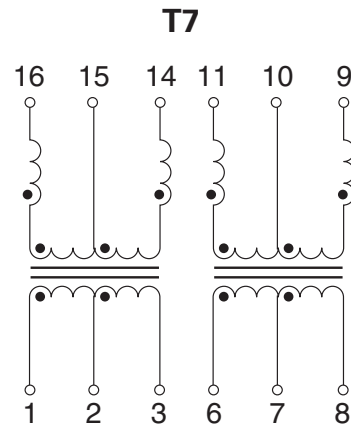
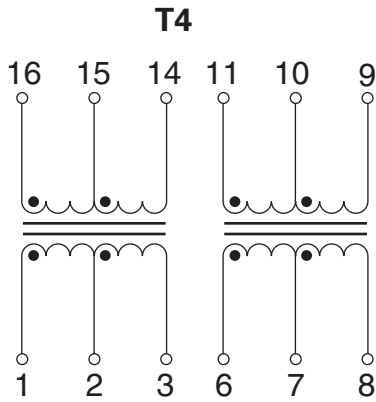
-  Peak solder temperature ratings per table 5-2 in IPC/JEDEC J-STD-020
-  Meets IEEE 802.3 specification
-  Available with common mode chokes for EMI suppression
-  Through hole, auto-insertable, 16-pin DIP package

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

Part <sup>2</sup> Number	Turns Ratio (±5%)		Primary Pins	Common Mode Choke	Sine Wave Inductance OCL (μH MIN)	Interwinding Capacitance C <sub>ww</sub> <sup>1</sup> (pF MAX)	Leakage Inductance L <sub>l</sub> <sup>1</sup> (μH MAX)	DCR (Ω MAX)	Hipot (Vrms)	Schem.	Mech	
	Transmit	Receive										
<b>SURFACE MOUNT<sup>2</sup></b>											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

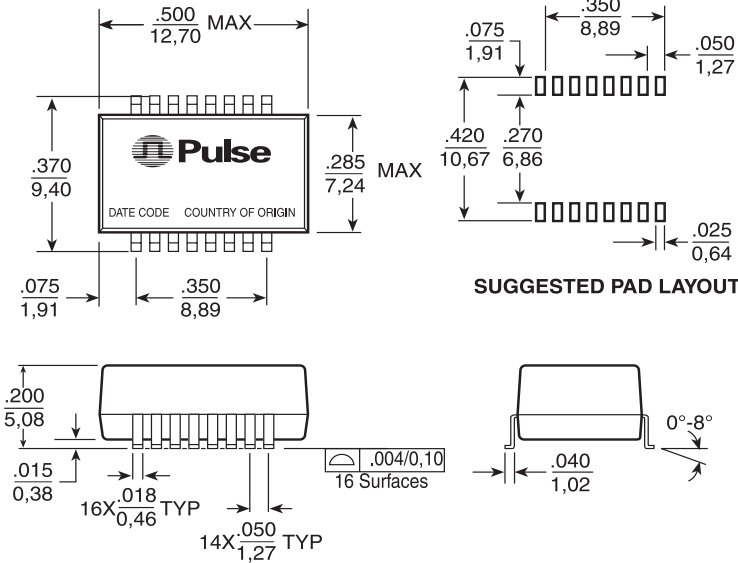
## Schematics



PINS 4, 5, 12 AND 13 NOT CONNECTED.

## Surface Mount Mechanicals

### SMT4



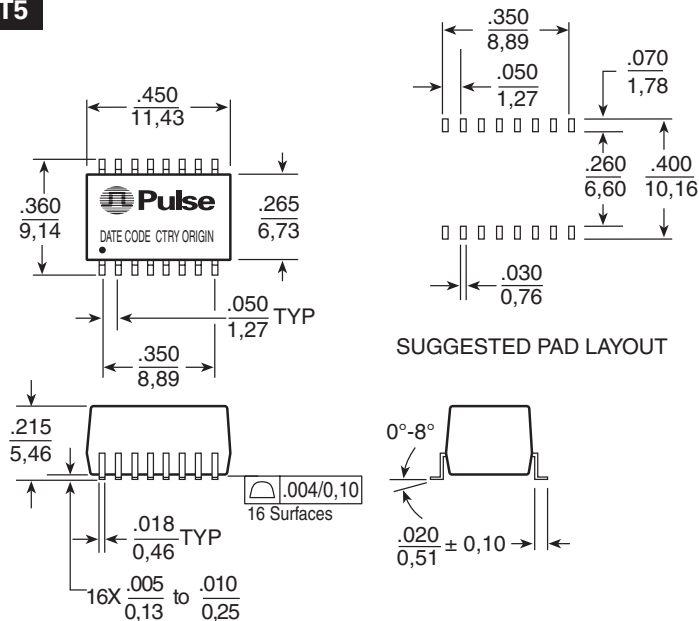
Dimensions: Inches  
mm

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: Inches  
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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