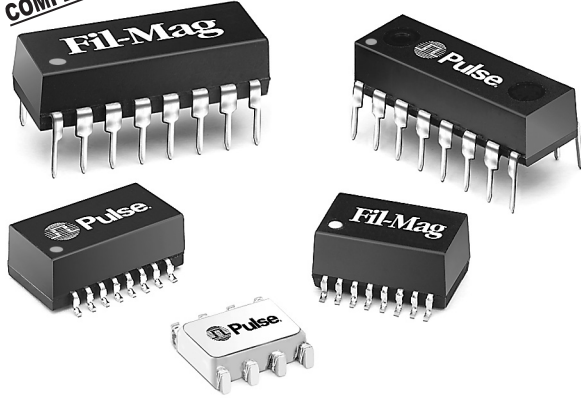






# ISOLATION TRANSFORMERS FOR 10BASE-T

For Adapter Cards, MAUs, Hubs,  
and Motherboard Applications



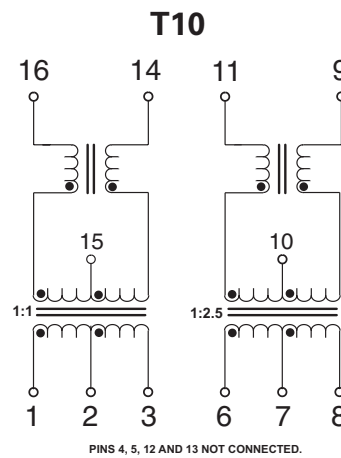
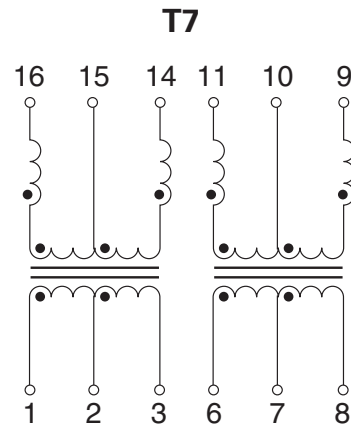
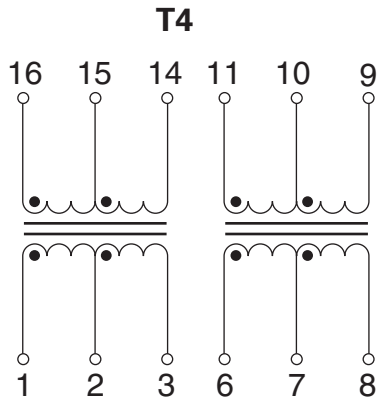
-  Peak solder temperature ratings per table 5-2 in IPC/JEDEC J-STD-020
-  Meets IEEE 802.3 specification
-  Available with common mode chokes for EMI suppression
-  Through hole, auto-insertable, 16-pin DIP package

## 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	

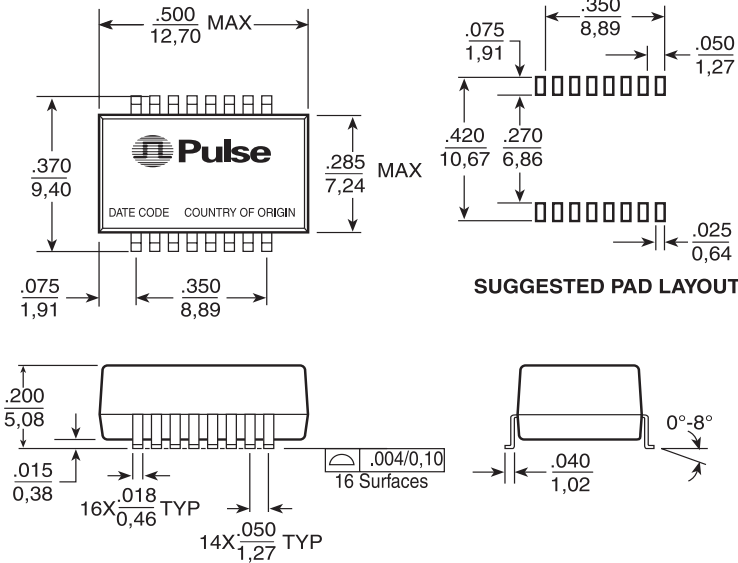
1. OCL, C<sub>ww</sub> and L<sub>l</sub> are measured at 20 mVrms, 100 kHz.
2. For Tape & Reel packaging, add the suffix "T" to the end of the part number when ordering. e.g. E2023NL.
3. Part numbers denoted "EX" are extended temperature parts -40°C to 85°C, electrical specifications @ 25°C.
4. MSL =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

## Schematics



## Surface Mount Mechanicals

### SMT4



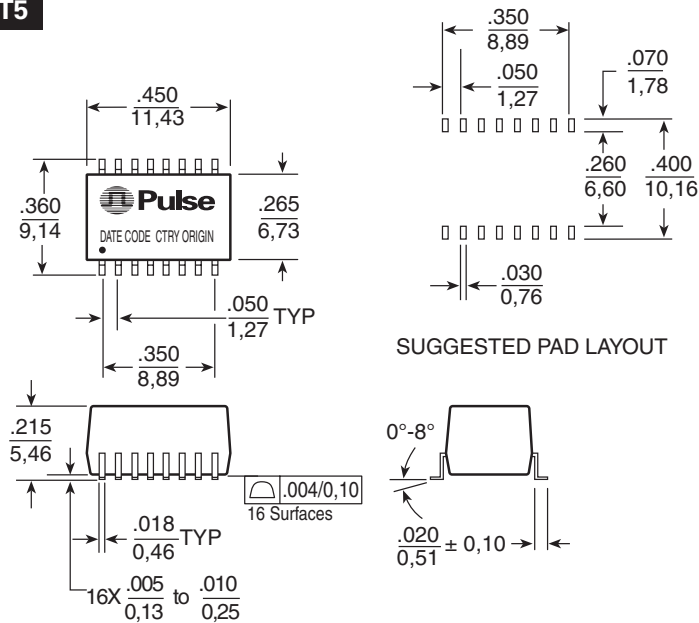
Dimensions: Inches  
mm

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

### For More Information:

**Pulse Worldwide Headquarters**  
 12220 World Trade Dr.  
 San Diego, CA 92128  
 U.S.A.

**Pulse Europe**  
 Zeppelinstrasse 15  
 D-71083 Herrenberg  
 Germany

**Pulse China Headquarters**  
 B402, Shenzhen Academy of  
 Aerospace Technology Bldg.  
 10th Kejinan Rd.  
 High-Tech Zone  
 Nanshan District  
 Shenzhen, PR China 518057

**Pulse North China**  
 Room 2704/2705  
 Super Ocean Finance Ctr.  
 2067 Yan An Rd. West  
 Shanghai 200336  
 China

**Pulse South Asia**  
 135 Joo Seng Rd.  
 #03-02  
 PM Industrial Bldg.  
 Singapore 368363

**Pulse North Asia**  
 3F, No. 198  
 Zhongyuan Rd.  
 Zhongli City  
 Taoyuan County 320  
 Taiwan R. O. C.

www.pulseeng.com  
 Tel: 858 674 8100  
 Fax: 858 674 8262

Tel: 49 7032 7806 0  
 Fax: 49 7032 7806 135

Tel: 86 755 33966678  
 Fax: 86 755 33966700

Tel: 86 21 62787060  
 Fax: 86 2162786973

Tel: 65 6287 8998  
 Fax: 65 6287 8998

Tel: 886 3 4356768  
 Fax: 886 3 4356823 (Pulse)  
 Fax: 886 3 4356820 (FRE)

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2010. Pulse Engineering, Inc. All rights reserved.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Pulse:](#)

[EX2024](#)