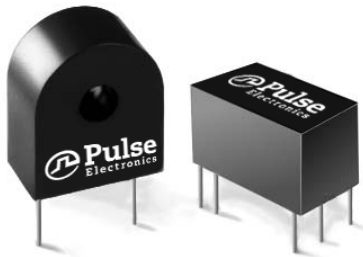






# THT Current Sense Transformers & Inductors



-  VDE Approved
-  Designed for switching power supply applications
-  Transformer meets EN62368-1 insulation requirements
-  Frequency range from 20kHz to 200kHz

## Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

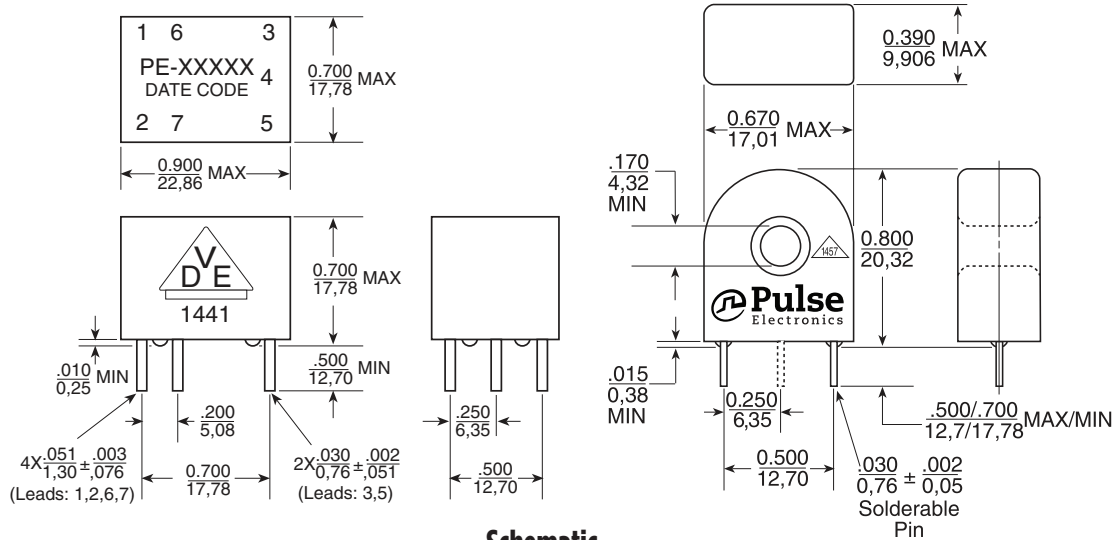
| Part Number Transformer with 2-1 T Primaries | Schem. Figure | Part Number Transformer with 1T Primary | Schem. Figure | Part Number Inductor without Primary | Schem. Figure | Turns Ns | Secondary Inductance MH (MIN) | Secondary Inductance Test Voltage (15.75 KHz) | RS (Ω MAX) | RT (Ω MAX) | Primary Unipolar Amp μ Sec. Rating (MAX) | Primary Bipolar Amp μ Sec. Rating (MAX) |
|--|---------------|---|---------------|--------------------------------------|---------------|----------|-------------------------------|---|------------|------------|--|---|
| —  | 1C            | PE-63586NL                              | 1A            | PE-51686NL                           | 2A            | 50       | 5.0                           | 0.5   | 0.7        | 50         | 150                                      | 300                                     |
| PE-64487NL                                   | 1C            | PE-63587NL                              | 1A            | PE-51687NL                           | 2A            | 100      | 2.0                           | 1.0   | 1.40       | 100        | 300                                      | 600                                     |
| PE-64488NL                                   | 1C            | PE-63588NL                              | 1A            | PE-51688NL                           | 2A            | 200      | 80.0                          | 2.0   | 4.50       | 200        | 600                                      | 1200                                    |
| PE-64517NL                                   | 1D            | —                                       | —             | PE-51717NL                           | 2B            | 50CT     | 5.0                           | 0.5   | 0.7        | 50         | 150                                      | 300                                     |
| PE-64518NL                                   | 1D            | PE-63618NL                              | 1B            | PE-51718NL                           | 2B            | 100CT    | 20.0                          | 1.0   | 1.40       | 100        | 300                                      | 600                                     |
| PE-64519NL                                   | 1D            | PE-63619NL                              | 1B            | PE-51719NL                           | 2B            | 200CT    | 80.0                          | 2.0   | 4.50       | 200        | 600                                      | 1200                                    |
| —  | —             | PE-63691NL                              | 1B            | —                                    | —             | 300CT    | 180.0                         | 3.0   | 11.0       | 300        | 900                                      | 1800                                    |

### Notes:

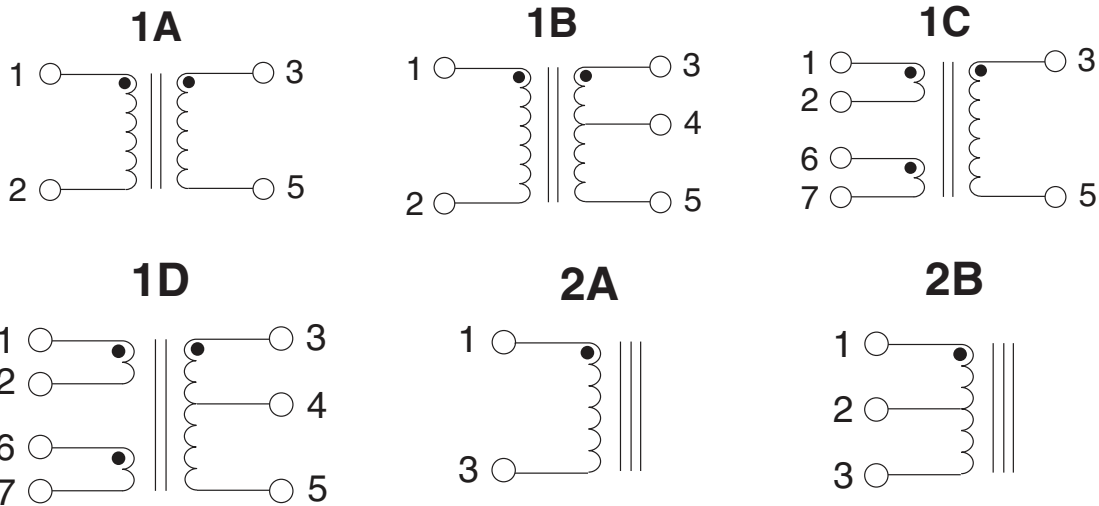
1. Maximum ratings specified with rated secondary terminating resistance and 1 turn primary.
2. Amp-microsecond (AμSec.) rating of primary equals volt microsecond (VμSec.) rating of secondary when secondary is terminated in rated resistance. (Amp - microsecond is equal to the product of a square pulse of current in amps, times the current pulse width in microseconds).
3. Maximum operating temperature 105°C (ambient plus rise).
4. When terminated with rated terminating resistance, the inductor scale factor is  $V_{out} = 1$  volt per amp. for center tapped units terminating resistance for each half of winding is listed value divided by two.
5. 1 turn primary peak sense current is 20 amps for all parts listed above.

## Mechanicals

PE-XXXXX



## Schematic



## For More Information

### Pulse Worldwide Headquarters

15255 Innovation Drive Ste 100  
San Diego, CA 92128  
U.S.A.

### Pulse Europe

Pulse Electronics GmbH  
Am Rottland 12  
58540 Meinerzhagen  
Germany

### Pulse China Headquarters

Pulse Electronics (ShenZhen) CO., LTD  
D708, Shenzhen Academy of  
Aerospace Technology,  
The 10th Keji South Road,  
Nanshan District, Shenzhen, P.R.  
China 518057

### Pulse North China

Room 2704/2705  
Super Ocean Finance Ctr.  
2067 Yan An Road West  
Shanghai 200336  
China

### Pulse South Asia

3 Fraser Street  
0428 DUO Tower  
Singapore 189352

### Pulse North Asia

1F, No.111  
Xiyuan Road  
Zhongli District  
Taoyuan City 32057  
Taiwan (R.O.C)

Tel: 858 674 8100  
Fax: 858 674 8262

Tel: 49 2354 777 100  
Fax: 49 2354 777 168

Tel: 86 755 33966678  
Fax: 86 755 33966700

Tel: 86 21 62787060  
Fax: 86 2162786973

Tel: 65 6287 8998  
Fax: 65 6280 0080

Tel: 886 3 4356768  
Fax: 886 3 4356820

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, 2019. Pulse Electronics, Inc. All rights reserved.