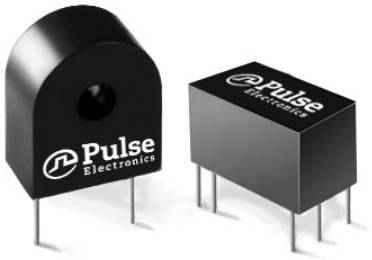
# THT Current Sense Transformers & Inductors

REG.-Nr. 1457




- *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**

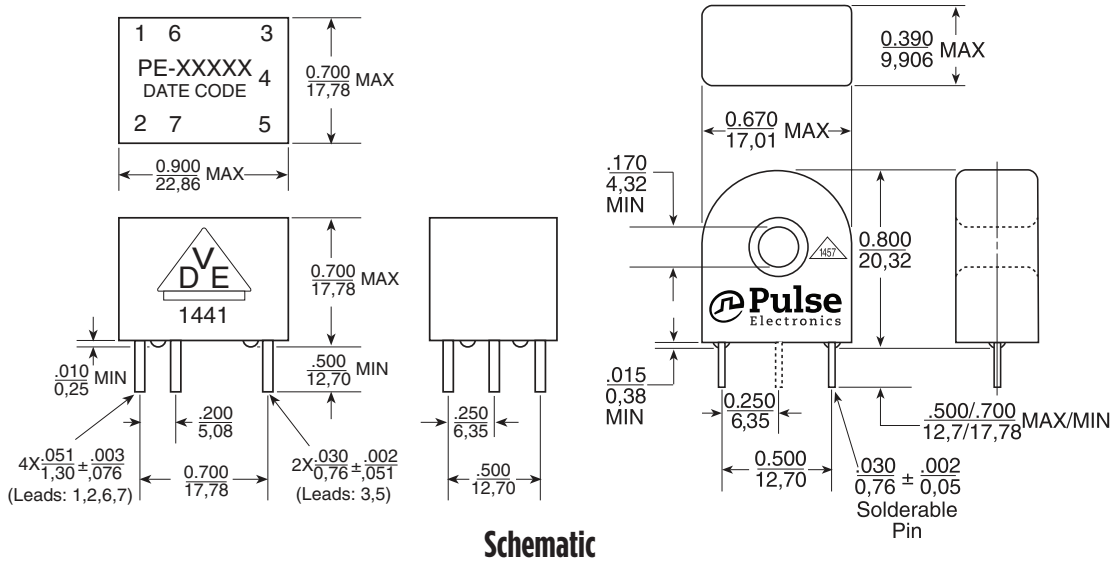
| Part Number Transformer with 2-1 T Primaries | Schem. Figure | Part Number Transformer with 1T Primary | Schem. Figure | Part Number Inductor without Primary | Schem. Figure | Turns Ns | Secondary Inductance MH (MIN) | Secondary Inductance Test Voltage (15.75 KHz) | RS (Ω MAX) | RT (Ω MAX) | Primary 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:**

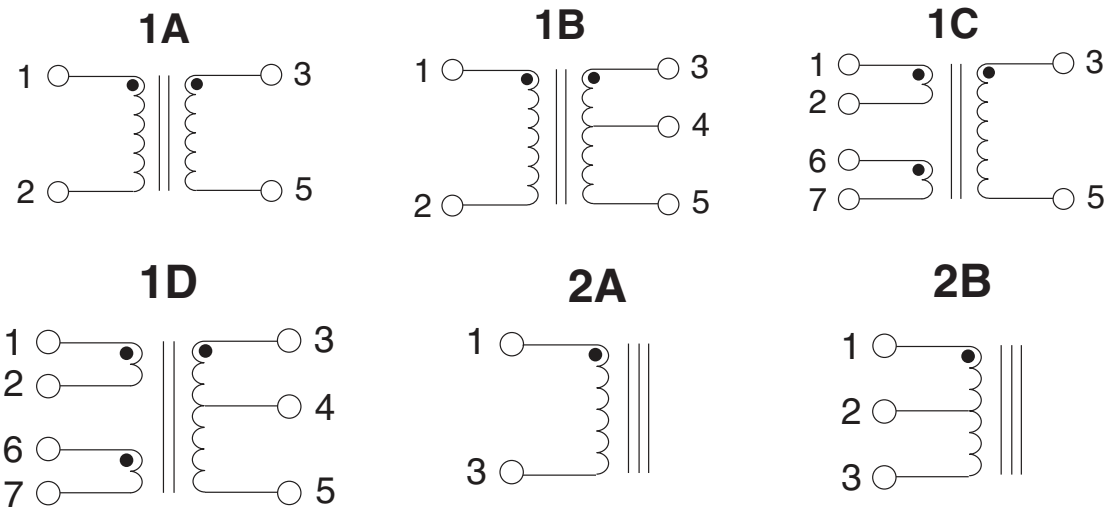
1. Maximum ratings specified with rated secondary terminating resistance and 1 turn primary.
2. Amp-microsend (AμSec.) rating of primary equalts volt microsend (VμSec.) rating of secondary when secondary is terminated in rated resistance. (Amp - microsends is equal to the product of a square pulse of 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 Vout = 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.

Tel: 858 674 8100
Fax: 858 674 8262

**Pulse Europe**
Pulse Electronics GmbH
Am Rottland 12
58540 Meinerzhagen
Germany

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

**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

Tel: 86 755 33966678
Fax: 86 755 33966700

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

Tel: 86 21 62787060
Fax: 86 2162786973

**Pulse South Asia**
3 Fraser Street
0428 DUO Tower
Singapore 189352

Tel: 65 6287 8998
Fax: 65 6280 0080

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

Tel: 886 3 4356768
Fax: 886 3 4356820