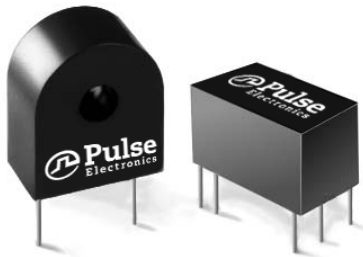






THT Current Sense Transformers & Inductors



-  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

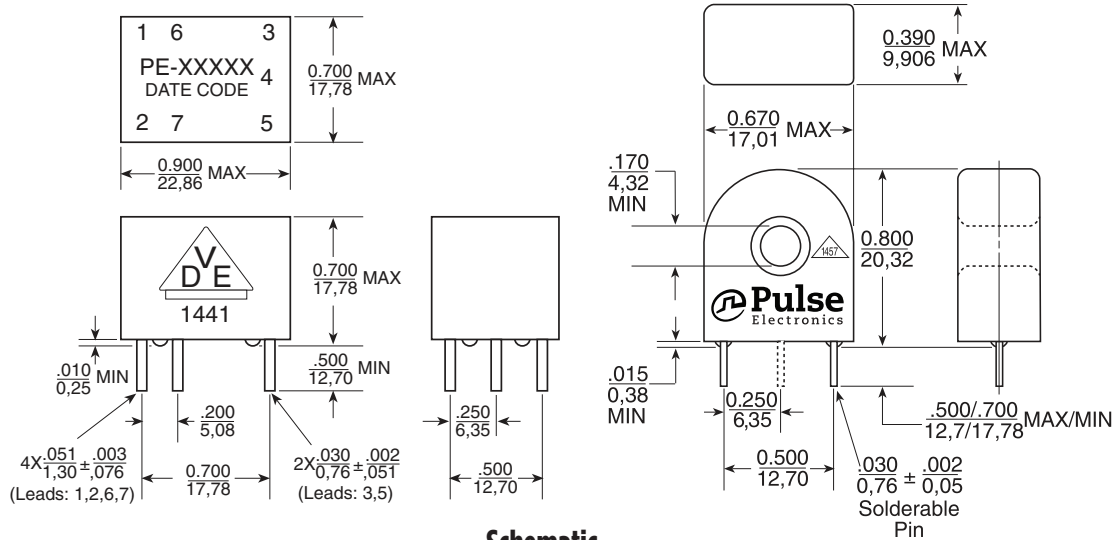
| Part Number Transformer with 2-1 T Primaries | Schem. Figure | Part Number Transformer with 1T Primary | Schem. Figure | Part Number Inductor without Primary | Schem. Figure | Turns Ns | Secondary Inductance MH (MIN) | Secondary Inductance Test Voltage (15.75 KHz) | RS (Ω MAX) | RT (Ω MAX) | Primary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

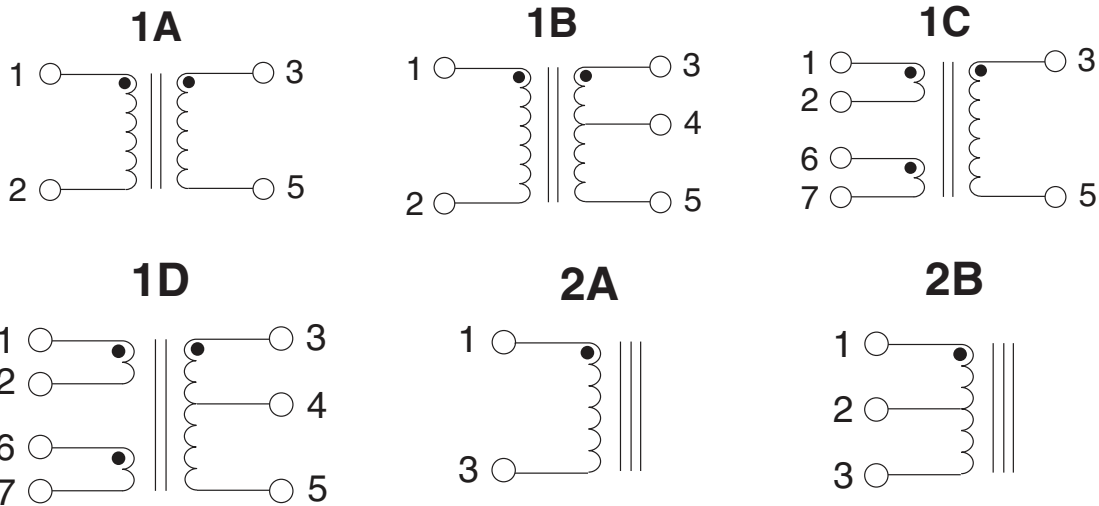
1. Maximum ratings specified with rated secondary terminating resistance and 1 turn primary.
2. Amp-microsend (AμSec.) rating of primary equals volt microsend (VμSec.) rating of secondary when secondary is terminated in rated resistance. (Amp - microseconds is equal to the product of a square pulse of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



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