SMT Current Sense Transforms

PE-68XXXNL Series

Height: 7.1mm Max
Footprint: 14.6mm x 12.6mm Max
Current Rating: up to 15A
Frequency Range: 50kHz to 500kHz

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**Notes:**

1. The temperature of the component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
2. The maximum current rating is based upon temperature rise of the component and represents the DC current which will cause a typical temperature rise of 40°C with no airflow when both one turn windings connected in parallel.
3. To calculate the value of the terminating resistor (R_t) use the following formula:
   
   \[ R_t (\Omega) = \frac{V_{REF} \times N}{I_{peak\_primary}} \]

4. The peak flux density of the device must remain below 2000 Gauss. To calculate the peak flux density for uni-polar current use following formula:

   \[ B_{PK} = 14.29 \times V_{REF} \times (Duty\_Cycle\_Max)^{10} / (N \times Freq\_kHz) \]

   * for bi-polar current applications divide BPK (as calculated above) by 2.

5. Optional Tape & Packaging can be ordered by adding a “T” suffix to the part number (i.e. PE-68210NL becomes PE-68210NLT). Pulse complies to the industry standard tape and reel specification EIA481.

6. The “NL” suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the “NL” suffix, but an RoHS compliant version is required, please contact Pulse for availability.

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**Mechanical**

**Schematic**

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**Dimensions:**

Unless otherwise specified, all tolerances are: ± 0.025