



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# SMT CURRENT SENSE TRANSFORMERS

## PE-68XXX Series



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

### Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C

Part <sup>5,6</sup> Number	Turns Ratio	Current <sup>2</sup> Rating (A)	Secondary Inductance (mH MIN)	DCR (mΩ MAX)		Hipot (V <sub>RMS</sub> )
				Primary (1,3-2,4)	Secondary (5-6)	
PE-68210	1:1:50	15	3.8	1.15	380	500
PE-68280	1:1:100	15	14.8	1.15	930	500
PE-68383	1:1:200	15	59.2	1.15	3900	500

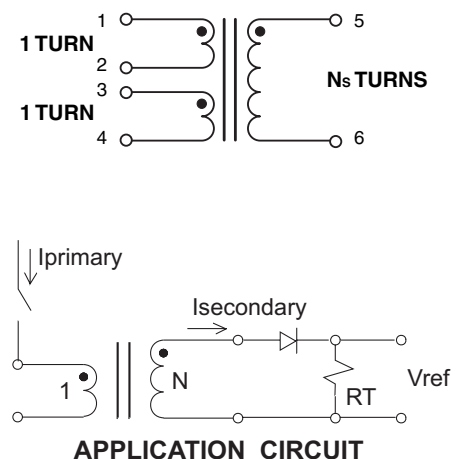
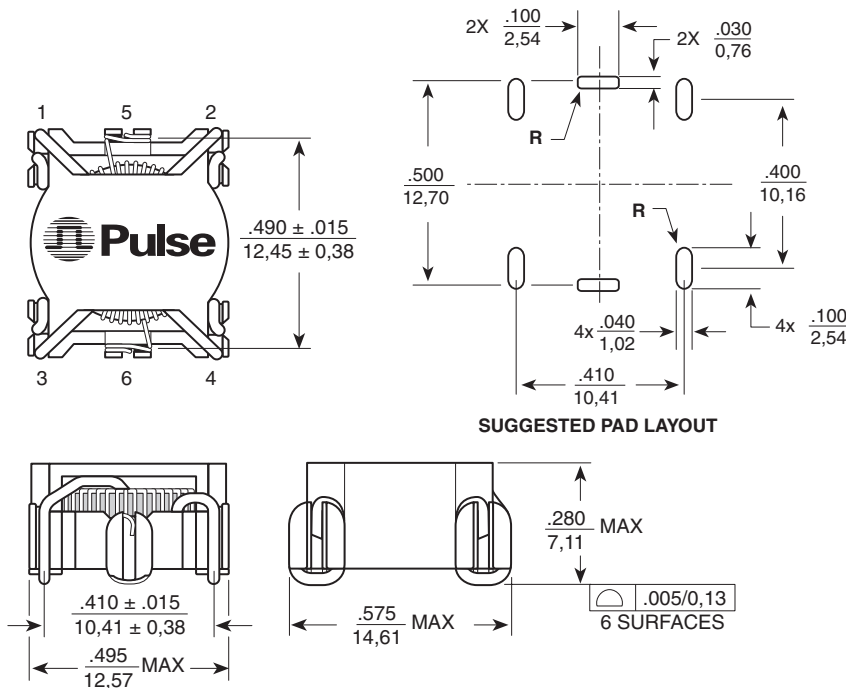
#### NOTES:

- The temperature of the component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
- 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 air flow when both one turn windings connected in parallel.
- To calculate the value of the terminating resistor (Rt) use the following formula:  $R_t (\Omega) = V_{REF} * N / (I_{peak\_primary})$
- The peak flux density of the device must remain below 2000 Gauss. To calculate the peak flux density for a uni-polar current use the following formula:  

$$B_{PK} = 14.29 * V_{REF} * (Duty\_Cycle\_Max) * 10^5 / (N * Freq\_kHz)$$
 \* for bi-polar current applications divide B<sub>PK</sub> as calculated above by 2.
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PE-68210 becomes PE-68210T). Pulse complies to industry standard tape and reel specification EIA481.
- RoHS compliant parts are being introduced. Please contact Pulse for RoHS compliant part availability. If available, order part by adding "NL" to the part number (i.e. PE-68210 becomes PE-68210NL and PE-68210T becomes PE-68210NLT).

### Mechanical

### Schematic



Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
 Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$