



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SMT CURRENT SENSE TRANSFORMERS

PB002X Series



- Height:** 10mm Max
- Footprint:** 19.9mm x 14.5mm Max
- Current Rating:** up to 35A
- Frequency Range:** 50kHz to 500kHz

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

Part Number ^{5,6}	Turns Ratio	Current Rating ² (A)	Secondary Inductance (mH MIN)	DCR (mΩ MAX)		Hipot (VRMS)
				Primary (11-12)	Secondary (2-4)	
PB0025	50:1	35	1.4	2.8	700	500
PB0026	100:1	35	5.6	2.8	1400	500
PB0027	200:1	35	22.4	2.8	2900	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 airflow 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:

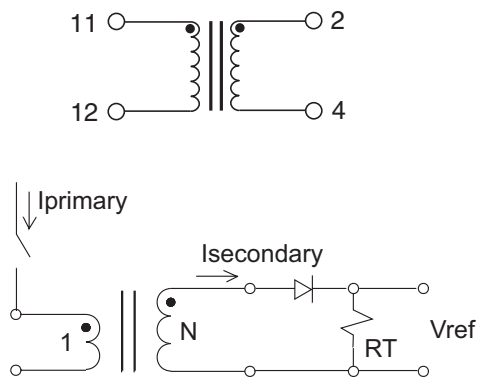
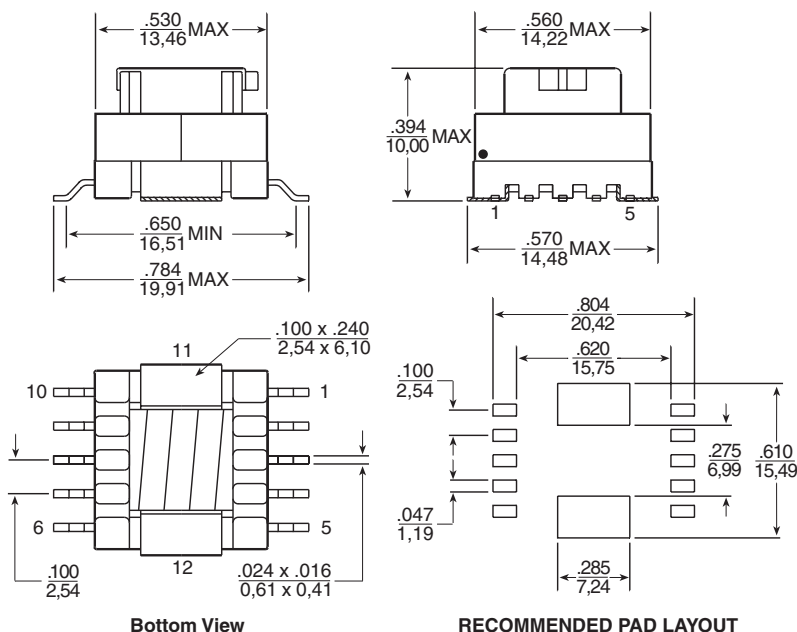
$$B_{PK} = 8.0 * V_{REF} * (Duty_Cycle_Max) * 10^5 / (N * Freq_kHz)$$

* for bi-polar current applications divide B_{PK} as calculated above by 2.

- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PB0025 becomes PB0025T). 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 part no. (i.e. PB0025 becomes PB0025NL and PB0025T becomes PB0025NLT).

Mechanical

Schematic



APPLICATION CIRCUIT

Weight 4.7 grams
 Tray100/tray
 Tape & Reel300/reel
 Coplanarity0.006 inches

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$