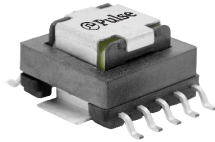


SMT Power SENSE Transformers

PB002XNL Series



- Height:** 10mm Max
- Footprint:** 19.9mm x 14.5mm Max
- Frequency Range:** 20kHz to 500kHz
- Current Rating:** up to 35A

Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

Part Number	Turns Ratio	Secondary Inductance (mH MIN)	DCR (mΩ MAX)		Hipot (V _{dc})
			Primary (11-12)	Secondary (2-4)	
PB0025NL	50:1	1.4	0.42	700	1000
PB0026NL	100:1	5.6	0.42	1400	1000
PB0027NL	200:1	22.4	0.42	2900	1000

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.
- 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 uni-polar current use following formula:

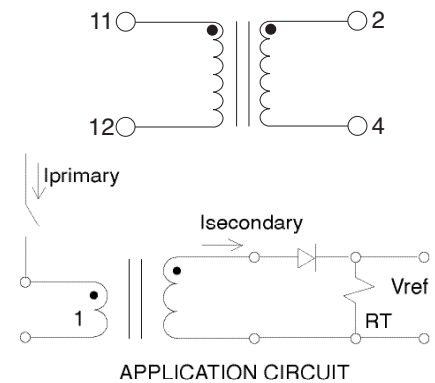
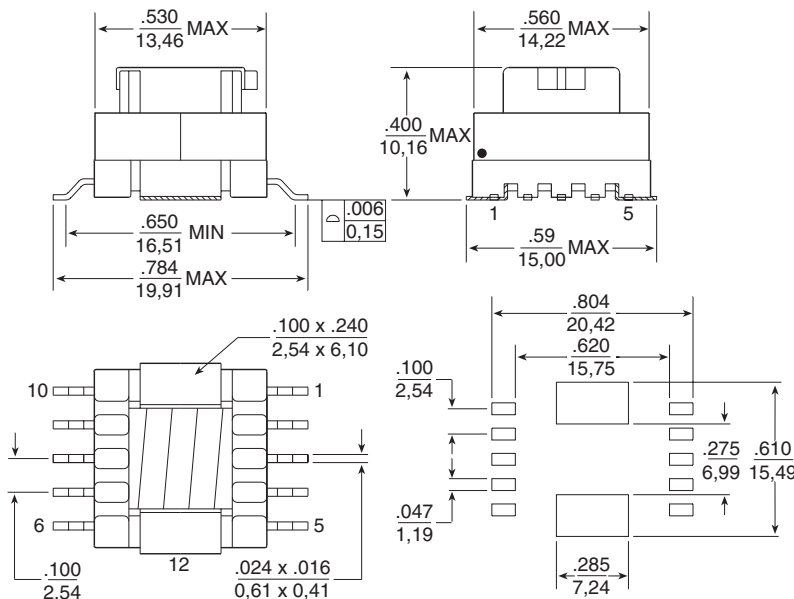
$$BPK = 8.06 * V_{REF} * (Duty_Cycle_Max) * 105 / (N * Freq_kHz)$$

* for bi-polar current applications divide BPK (as calculated above) by 2.
- Optional Tape & Packaging can be ordered by adding a "T" suffix to the part number (i.e. PA0368.050NL becomes PA0368.050NLT). Pulse complies to the industry standard tape and reel specification EIA481.
- 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.

Mechanical

Schematic

PB002XNL

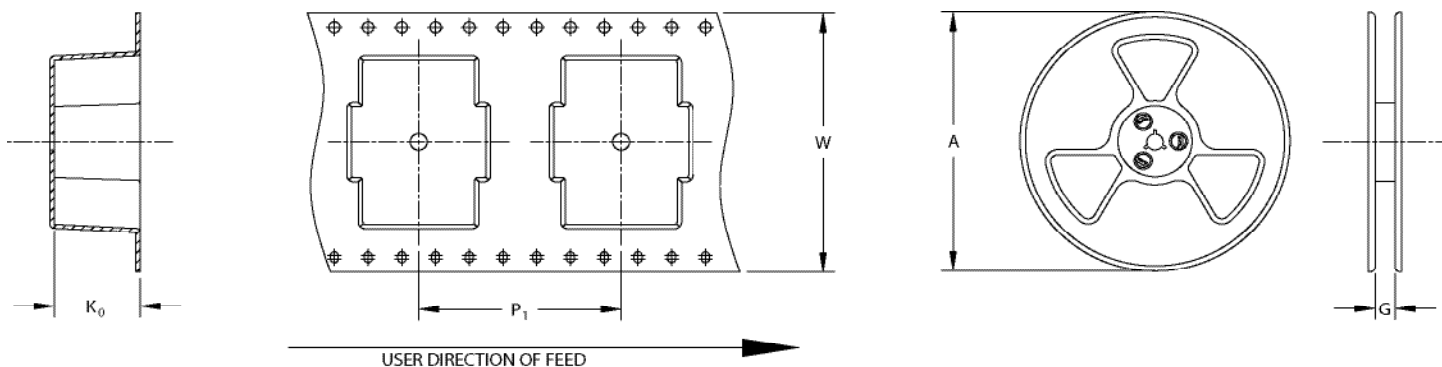


Weight4.7grams
Tape & Reel200/reel
Tray70/tray
Dimensions: Inches
 mm
 Unless otherwise specified,
 all tolerances are: ±0,25

SMT Power SENSE Transformers

PB002XNL Series

TAPE & REEL INFO



SURFACE MOUNTING TYPE, REEL/TAPE LIST

PART NUMBER	REEL SIZE (mm)		TAPE SIZE (mm)			QTY
	A	G	P ₁	W	K ₀	PCS/REEL
PB002XNLT	Ø330	32.4	24	32	10.16	200

For More Information:

Americas - prodinfo_power_americas@yageo.com | Europe - prodinfo_power_emea@yageo.com | Asia - prodinfo_power_asia@yageo.com

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