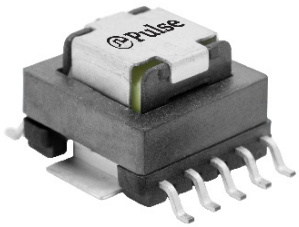
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SMT Power SENSE Transformers
PB002XNL Series



- ***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

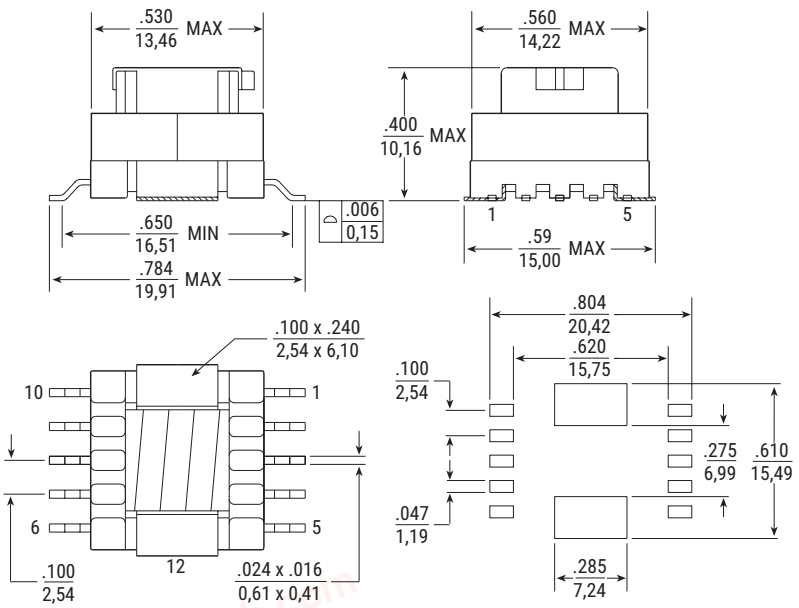
Part Number	Turns Ratio	Secondary Inductance (mH MIN)	DCR (mΩ MAX)		Hipot (V_{DC})
			Primary (11-12)	Secondary (2-4)	
PB0025NL	50:1	1.4	0.42	700	1000
PB0026NL	100:1	5.6	0.42	1400	1000
PB0027NL	200:1	22.4	0.42	2900	1000

Notes:

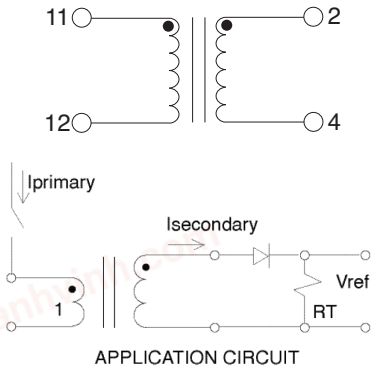
1. The temperature of the component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
2. The maximum current rating is based upon temperature rise of the component and represents the DC current which will cause a typical temperature rise of 40°C with no airflow.
3. To calculate the value of the terminating resistor (Rt) use the following formula:
   Rt (Ω) = VREF * N / (Ipeak_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:
   BPK = 8.06 * VREF * (Duty_Cycle_Max) * 105 / (N * 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. PA0368.050NL becomes PA0368.050NLT). 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.

Mechanical

PB002XNL



Schematic

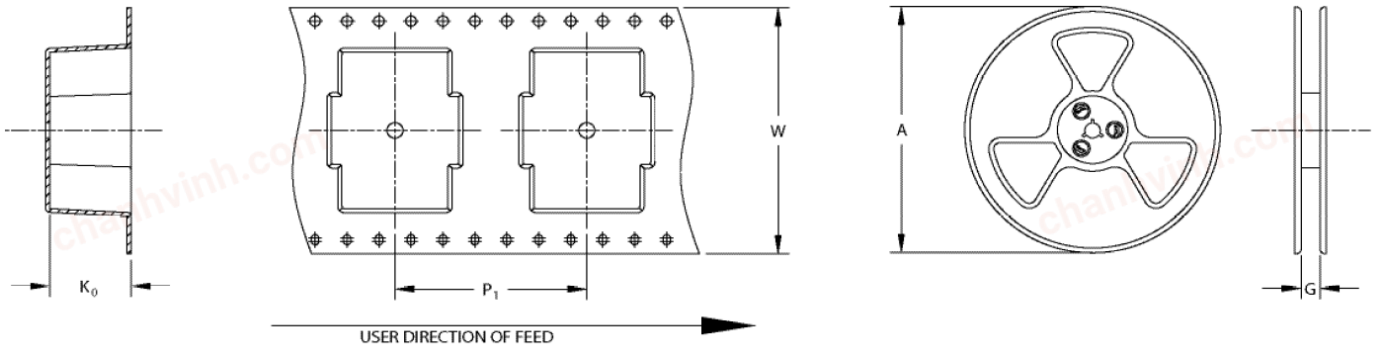


Weight 4.7grams
Tape & Reel 200/reel
Tray 70/tray

Dimensions: Inches / mm
Unless otherwise specified, all tolerances are: ±.010 / 0,25

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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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