SMT Power SENSE Transformers

PB002XNL Series











Height: 10mm Max

Footprint: 19.9mm x 14.5mm MaxFrequency Range: 20kHz to 500kHz

Current Rating: up to 35A

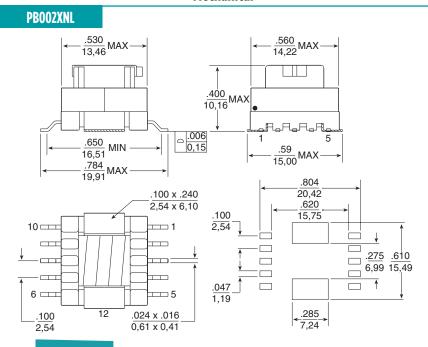
Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C									
Part Number	Turns Ratio	Secondary Inductance (mH MIN)	DCR (m	Hipot					
			Primary (11-12)	Secondary (2-4)	(V _{DC})				
PB0025NL	50:1	1.4	0.42	700	1000				
PB0026NL	100:1	5.6	0.42	1400	1000				
PB0027NL	200:1	22.4	0.42	2900	1000				

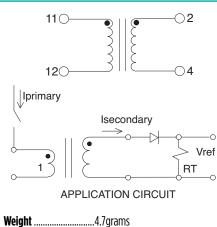
Notes:

- The temperature of the component (ambient temperature plus temperature rise) must be within the specified operating temperature range.
- 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.
- 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 = 64.9 * VREF * (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



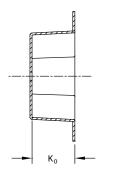


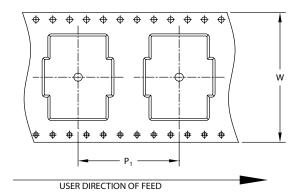
SMT Power SENSE Transformers

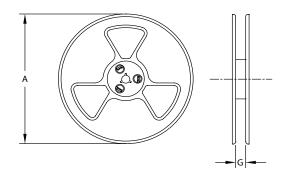
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TAPE & REEL INFO







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

For More Information

Pulse Worldwide Headquarters Pulse Europe Pulse China Headquarters Pulse North China Pulse South Asia Pulse North Asia Pulse Electronics (ShenZhen) CO., LTD 3 Fraser Street 0428 1F., No.111 Xivuan Road 15255 Innovation Drive Ste 100 Pulse Electronics GmbH Room 2704/2705 San Diego, CA 92128 **DUO Tower** Am Rottland 12 D708, Shenzhen Academy of Super Ocean Finance Ctr. Zhongli District U.S.A. 58540 Meinerzhagen Aerospace Technology, Singapore 189352 Taoyuan City 32057 2067 Yan An Road West The 10th Keji South Road, Taiwan (R.O.C) Germany Shanghai 200336 Nanshan District, Shenzhen, China P.R. China 518057 Tel: 49 2354 777 100 Tel: 858 674 8100 Tel: 86 755 33966678 Tel: 65 6287 8998 Tel: 886 3 4356768 Tel: 86 21 62787060 Fax: 858 674 8262 Fax: 49 2354 777 168 Fax: 86 755 33966700 Fax: 65 6280 0080 Fax: 886 3 4356820 Fax: 86 2162786973

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