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

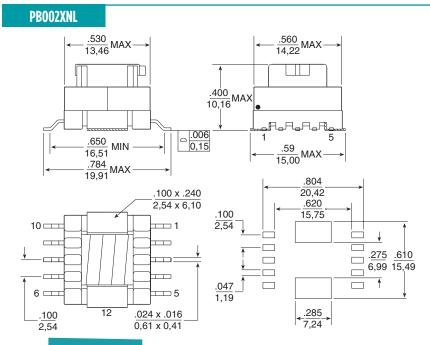
Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C									
Part Number	Turns Ratio	Secondary Inductance (mH MIN)	DCR (m Ω MAX)		- Hipot				
			Primary (11-12)	Secondary (2-4)	(V _{DC})				
PB0025NL	50:1	1.4	0.42	700	1000				
PB0026NL	100:1	5.6	0.42	1400	1000				
PB0027NL	200:1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

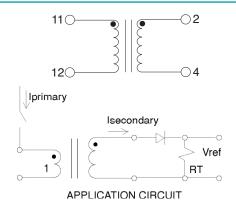
Notes:

- 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.
- 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





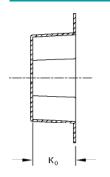
PulseElectronics.com

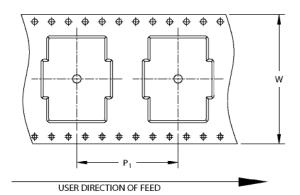
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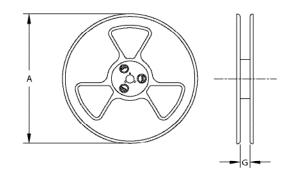
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TAPE & REEL INFO







SURFACE MOUNTING TYPE, REEL/TAPE LIST										
DADT NUMDED	REEL SIZE (mm)		TAPE SIZE (mm)			QTY				
PART NUMBER	А	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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