

SMT POWER INDUCTORS

Unshielded Drum Core – PG0016NL Series



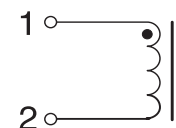
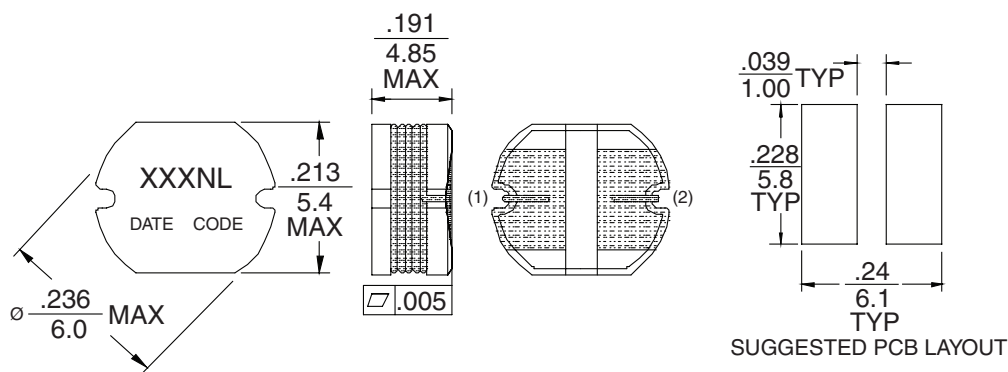
-  **Current Rating:** up to 8.5A
-  **Inductance Range:** 0.33μH to 220μH
-  **Height:** 4.85 mm Max
-  **Footprint:** 6.0mm x 5.4mm MAX

Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C⁶

Part ⁵ Number	Inductance @I _{rated} ¹ (μH TYP)	I _{rated} ² (A)	DCR (mΩ)	Inductance @ 0A _{dc} (μH ± 15%)	Saturation Current ³ I _{sat} (A TYP)	Heating Current ⁴ I _{dc} (A TYP)
PG0016.331NL	0.29	8.5	4.3	0.33	13	8.5
PG0016.561NL	0.48	6.6	6.5	0.56	10	6.6
PG0016.681NL	0.68	6.0	7.0	0.68	8.0	6.0
PG0016.821NL	0.71	6.0	11	0.82	7.8	6.0
PG0016.102NL	1.0	4.5	13	1.0	6.8	4.5
PG0016.152NL	1.3	4.0	16	1.5	6.1	4.0
PG0016.222NL	2.1	3.2	23	2.2	5.0	3.2
PG0016.272NL	2.7	2.9	25	2.7	4.2	2.9
PG0016.332NL	3.1	2.6	30	3.3	4.0	2.6
PG0016.472NL	4.2	2.3	34	4.7	3.3	2.3
PG0016.682NL	6.1	1.8	55	6.8	2.9	1.8
PG0016.822NL	7.4	1.7	60	8.2	2.6	1.7
PG0016.103NL	10	1.5	80	10	2.3	1.5
PG0016.123NL	12	1.4	120	12	2.1	1.4
PG0016.153NL	14	1.3	140	15	1.8	1.3
PG0016.183NL	18	1.2	150	18	1.6	1.2
PG0016.223NL	21	1.1	180	22	1.6	1.1
PG0016.273NL	27	0.97	200	27	1.4	0.97
PG0016.333NL	33	0.88	230	33	1.3	0.88
PG0016.393NL	39	0.80	320	39	1.1	0.80
PG0016.473NL	46	0.72	370	47	1.0	0.72
PG0016.563NL	56	0.68	420	56	0.95	0.68
PG0016.683NL	68	0.61	530	68	0.80	0.61
PG0016.823NL	82	0.58	600	82	0.70	0.58
PG0016.104NL	100	0.52	840	100	0.70	0.52
PG0016.124NL	120	0.48	930	120	0.60	0.48
PG0016.154NL	150	0.40	1250	150	0.55	0.40
PG0016.184NL	180	0.38	1400	180	0.50	0.38
PG0016.224NL	217	0.35	1600	220	0.50	0.35

Mechanical

Schematic



Weight 0.46 grams
Tape & Reel 1400pcs/reel

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.004}{0,10}$

SMT POWER INDUCTORS

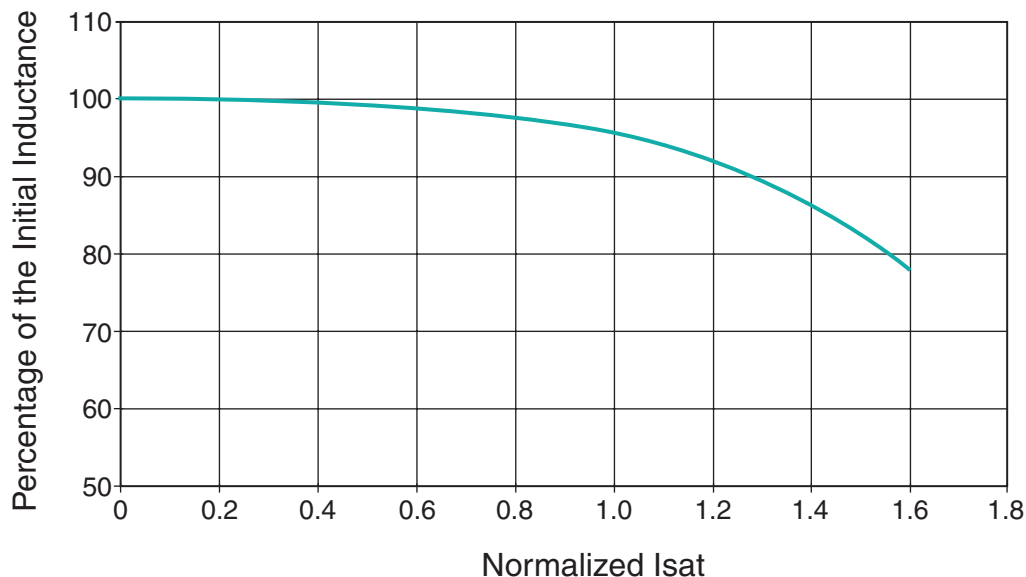
Unshielded Drum Core – PG0016NL Series



NOTES:

1. Inductance at I_{rated} is a typical inductance value for the component taken at rated current.
2. The rated current listed is the lower of the saturation current @ 25°C or the heating current.
3. The saturation current, I_{sat} , is the current at which the component inductance drops by 10% (typ.) at an ambient temperature of 25°C. This current is determined by placing the component in the specified ambient environment and applying a short duration pulse current (to eliminate self-heating effects) to the component.
4. The heating current, I_{DC} , is the DC current required to raise the component temperature by approximately 40°C. The heating current is determined by mounting the component on a typical PCB and applying current for 30 minutes.
5. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PG0016.331NL becomes PG0016.331NLT). Pulse complies to industry standard tape and reel specification EIA481.
6. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Typical Inductance vs. Current Characteristics



For More Information:

Pulse Worldwide Headquarters
12220 World Trade Dr.
San Diego, CA 92128
U.S.A.

www.pulseeng.com

Tel: 858 674 8100
Fax: 858 674 8262

Pulse Europe
Einsteinstrasse 1
D-71083 Herrenberg
Germany

Tel: 49 7032 7806 0
Fax: 49 7032 7806 135

Pulse China Headquarters
B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejinan Rd.
High-Tech Zone
Nanshan District
Shenzhen, PR China 518057

TEL: 86 755 33966678
FAX: 86 755 33966700

Pulse North China
Room 1503
XinYin Building
No. 888 YiShan Rd.
Shanghai 200233
China

Tel: 86 21 54643211/2
Fax: 86 21 54643210

Pulse South Asia
135 Joo Seng Rd.
#03-02
PM Industrial Bldg.
Singapore 368363

TEL: 65 6287 8998
FAX: 65 6280 0080

Pulse North Asia
No. 26, Kao Ching Rd.
Yang Mei Chen
Taoyuan Hsien
Taiwan
R. O. C.

Tel: 886 3 4643715
Fax: 886 3 4641911

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.

© Copyright, 2009, Pulse Engineering, Inc. All rights reserved.

www.pulseeng.com

P683.A (5/09)