SMT Power Inductors

Unshielded Drum Core - PG0015NL Series



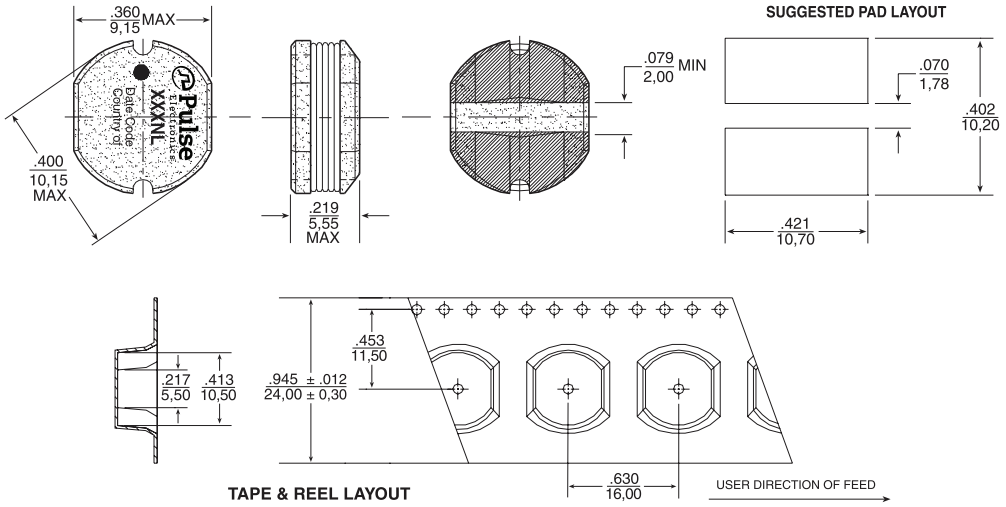
- ***Height:*** *5.55mm Max*
- ***Footprint:*** *10.15mm x 9.15mm Max*
- ***Current Rating:*** *up to 2.6A*
- ***Inductance Range:*** *10µH to 820µH*
- *260°C reflow peak temperature qualified*

Electrical Specifications @ 25°C – Operating Temperature -40°C to +125°C[5]						
Part[4] Number	Inductance @ 0Adc (µH ±20%)	Irated[1] (A)	DCR (MAX) (mΩ MAX)	Saturation[2] Current Isat (A)	Heating[3] Current I_{DC} (A)	SRF (MHz TYP)
PG0015.103NL	10	2.6	60	2.6	4.8	20
PG0015.123NL	12	2.45	70	2.45	4.5	19
PG0015.153NL	15	2.27	80	2.27	4.3	18
PG0015.183NL	18	2.15	90	2.15	4.1	16
PG0015.223NL	22	1.95	100	1.95	4.0	14
PG0015.273NL	27	1.76	110	1.76	3.7	12
PG0015.333NL	33	1.50	120	1.50	3.4	12
PG0015.393NL *	39	1.37	140	1.37	3.2	10
PG0015.473NL	47	1.28	170	1.28	3.1	9.0
PG0015.563NL	56	1.17	190	1.17	3.0	8.1
PG0015.683NL	68	1.11	220	1.11	2.7	7.6
PF0015.823NL	82	1.00	250	1.00	2.4	6.8
PF0015.104NL	100	0.97	350	0.97	2.2	6.2
PF0015.124NL *	120	0.89	400	0.89	1.9	5.0
PF0015.154NL	150	0.78	470	0.78	1.8	4.5
PF0015.184NL *	180	0.72	630	0.72	1.5	4.5
PF0015.224NL	220	0.66	730	0.66	1.3	4.0
PF0015.274NL *	270	0.57	970	0.57	1.2	3.6
PF0015.334NL	330	0.52	1150	0.52	1.1	3.1
PF0015.394NL *	390	0.48	1300	0.48	1.1	2.8
PF0015.474NL	470	0.42	1480	0.42	1.0	2.6
PF0015.564NL *	560	0.32	1900	0.32	0.9	2.2
PG0015.684NL	680	0.28	2250	0.28	0.9	2.2
PG0015.824NL	820	0.24	2550	0.24	0.5	2.0

Mechanical

Schematic

PG0015.XXXNL



Weight .....1.5 grams
Tape & Reel 600/reel
Dimensions: Inches / mm

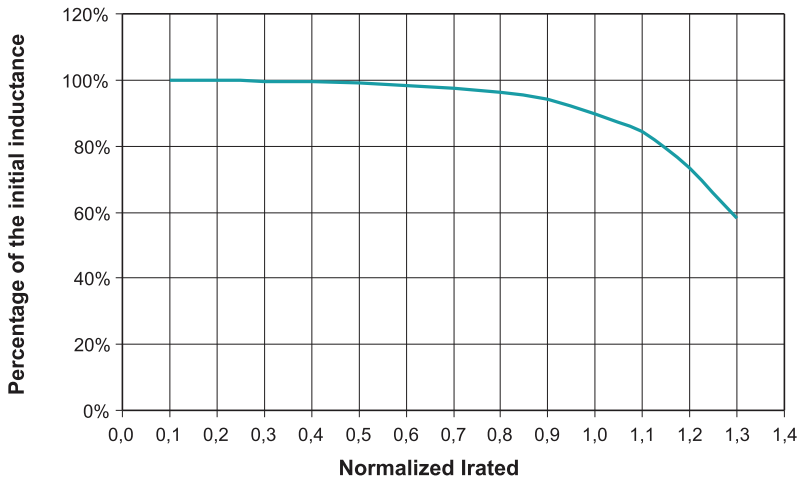
Unless otherwise specified, all tolerances are ± .004 / 0,10

Notes from Tables:

1. The rated current listed is the lower of the saturation current @ 25°C or the heating current, depending on which value is lower.
2. The saturation current, Isat, is the current which causes the inductance to drop by 10% Max 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.
3. The heating current, I_{DC}, is the DC current which causes the temperature rise of the part to increase approximately 40°C. This current is determined by mounting the component on a typical PCB and applying the current to the device for 30 minutes.
4. Optional Tape & Reel packaging can be ordered by adding a "**T**" suffix to the part number (i.e. PG0015.103NL becomes PG0015.103NL**T**). Pulse complies to industry standard tape and reel specification EIA481.
5. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

* Contact Pulse for availability

Typical Inductance vs Current Characteristics



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