

SMT POWER INDUCTORS

Shielded Drum Core - PF0601NL Series



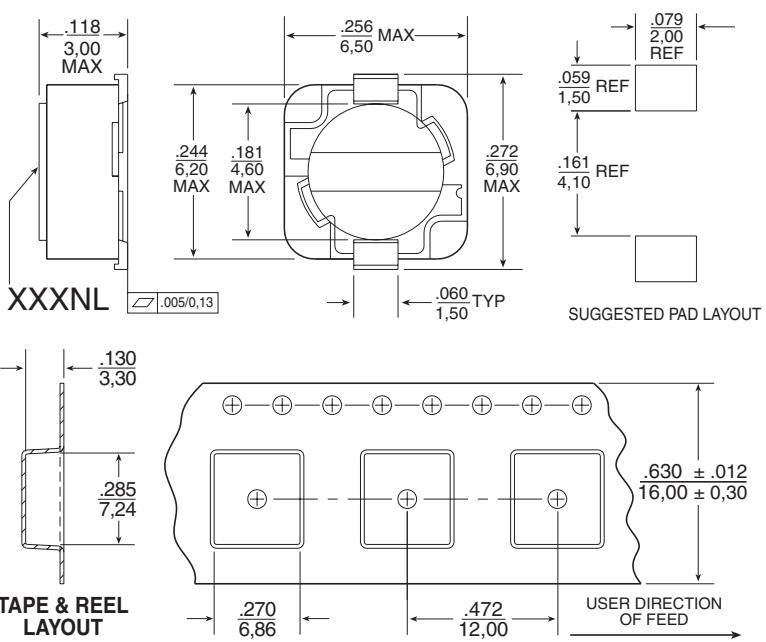
- **Height:** 3mm Max
- **Footprint:** 6.9mm x 6.5mm Max
- **Current Rating:** up to 2A
- **Inductance Range:** 2.9 μ H to 330 μ H
- **260°C reflow peak temperature qualified**

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

Part ^{2,3} Number	Inductance @ 0Adc (μ H ±20%)	Inductance @ Irated (μ H TYP)	Irated ⁵ (A)	DCR (m Ω) MAX	Saturation ⁶ Current Isat -20% (A)	Heating ⁷ Current Ipc +45°C(A)	Core Loss ⁸ Factor (K2)	SRF (MHz)
PF0601.292NL	2.9	2.6	2.0	55	2.0	3.3	1500	>40
PF0601.402NL	4.0	3.5	1.63	69	1.63	3.0	1700	>40
PF0601.552NL	5.5	4.8	1.5	75	1.5	2.6	2000	>40
PF0601.103NL	10	8.8	1.1	135	1.1	2.1	2700	31
PF0601.123NL	12	11	1.0	140	1.0	2.0	3100	30
PF0601.153NL	15	13	0.9	155	0.9	1.7	3300	26
PF0601.183NL	18	16	0.8	210	0.8	1.6	3700	23
PF0601.223NL	22	19	0.74	230	0.74	1.5	4000	20
PF0601.273NL	27	24	0.66	305	0.66	1.4	4600	19
PF0601.333NL	33	29	0.59	345	0.59	1.3	4900	17
PF0601.393NL	39	34	0.54	445	0.54	1.2	5500	16
PF0601.473NL	47	41	0.5	515	0.5	1.0	5900	14
PF0601.563NL	56	49	0.46	575	0.46	0.9	6400	13
PF0601.683NL	68	60	0.42	765	0.42	0.85	7200	12
PF0601.823NL	82	72	0.38	840	0.38	0.80	7800	11
PF0601.104NL	100	88	0.34	1120	0.34	0.67	8700	9.0
PF0601.124NL	120	106	0.31	1250	0.31	0.62	9400	8.0
PF0601.154NL	150	132	0.28	1440	0.28	0.60	11000	7.0
PF0601.184NL	180	158	0.26	1920	0.26	0.52	12000	6.5
PF0601.224NL	220	194	0.23	2200	0.23	0.45	13000	6.1
PF0601.274NL	270	238	0.22	3000	0.22	0.40	14000	5.8
PF0601.334NL	330	290	0.19	3300	0.19	0.30	16000	5.1

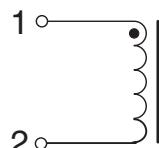
NOTES FROM TABLE: (See page 43)

Mechanical

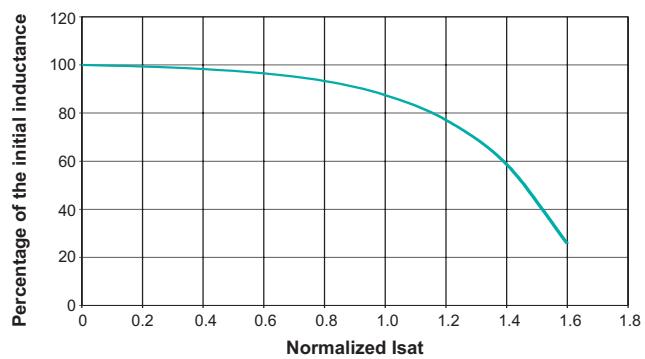


Weight 0.35 grams
Tape & Reel 1200/reel

Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are $\pm .004$
 $.010$



Inductance vs Current Characteristics



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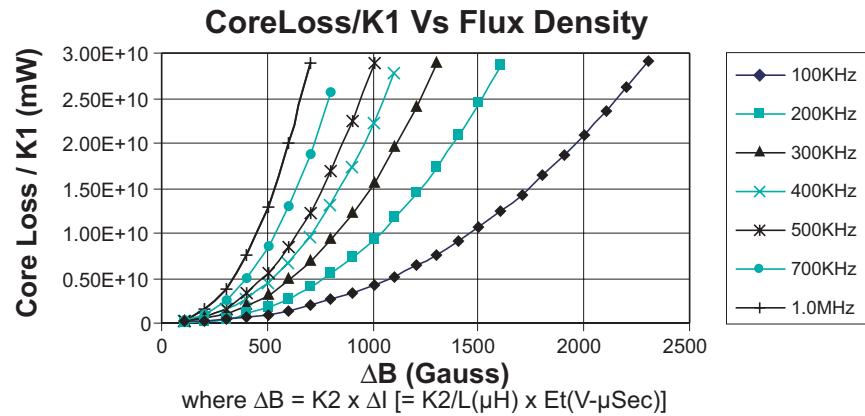


Notes from Tables (pages 27 - 42)

1. Unless otherwise specified, all testing is made at 100kHz, 0.1VAC.
2. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. P1166.102NL becomes P1166.102NLT). Pulse complies with industry standard Tape and Tape & Reel specification EIA481.
3. 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.
4. Temperature of the component (ambient plus temperature rise) must be within specified operating temperature range.
5. The rated current (Irated) as listed is either the saturation current or the heating current depending on which value is lower.
6. The saturation current, Isat, is the current at which the component inductance drops by the indicated percentage (typical) 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.
7. The heating current, Idc, is the DC current required to raise the component temperature by the indicated delta (approximately). The heating current is determined by mounting the component on a typical PCB and applying current for 30 minutes. The temperature is measured by placing the thermocouple on top of the unit under test.

Part No.	Trise Factor (K0)	Core Loss Factor (K1)
PG0085/86	2.3	5.29E-10
PG0087	5.8	15.2E-10
PG0040/41	0.8	2.80E-10
P1174	0.8	6.47E-10
PF0601	4.6	14.0E-10
PF0464	3.6	24.7E-10
PF0465	3.6	33.4E-10
P1166	1.9	29.6E-10
P1167	2.1	42.2E-10
PF0560NL	5.5	136E-10
P1168/69	4.8	184E-10
P1170/71	4.3	201E-10
P1172/73	5.6	411E-10
PF0552NL	8.3	201E-10
PF0553NL	7.1	411E-10

Take note that the component's temperature rise varies depending on the system condition. It is suggested that the component be tested at the system level, to verify the temperature rise of the component during system operation.



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