

SMT POWER INDUCTORS

Power Beads - PA051XNL, PA121XNL, PA151XNL Series



- Current Rating: Over 70Apk**
- Inductance Range: 72nH to 470nH**
- Four Package Sizes:**

PA0512/PA1212: 7.0 x 7.0 x 4.96mm Max
PA0511/PA1211: 10.2 x 7.0 x 4.96mm Max
PA0515: 11.2 x 11.2 x 9.0mm Max
PA0513/PA1513: 13.5 x 13.0 x 8.0mm Max

Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C⁷

Part Number	Inductance @0A _{dc} (nH ±20%)	Inductance @I _{rated} (nH TYP)	I _{rated} ¹ (A _{dc})	DCR ² (mΩ)	Saturation Current ³ (TYP)		Heating ⁴ Current (A TYP)
					25°C	100°C	
PA0512NL and PA1212NL - 7.0mm x 7.0mm x 4.96mm Max							
PA0512.700NLT	72	72	31	0.32 ±9.4%	58	45	31
PA0512.101NLT	105	102	31		46	38	
PA0512.151NLT	150	134	24		30	24	
PA1212.700NLT	72	72	31	0.46 ±6.5%	58	45	31
PA1212.101NLT	105	102	31		46	38	
PA1212.151NLT	150	134	24		30	24	
PA0511NL and PA1211NL - 10.2mm x 7.0mm x 4.96mm Max							
PA0511.850NLT	85	85	31	0.39 ±7.7%	70+	70	31
PA0511.900NLT	100	100	31		70	65	
PA0511.101NLT	120	120	31		52	42	
PA0511.151NLT	155	150	31		40	36	
PA0511.221NLT	220	176	25		33	25	
PA1211.850NLT	85	85	31	0.55 ±7.3%	70+	70	31
PA1211.900NLT	100	100	31		70	65	
PA1211.101NLT	120	120	31		52	42	
PA1211.151NLT	155	150	31		40	36	
PA1211.221NLT	220	176	25		33	25	
PA0515NL - 11.2mm x 11.2mm x 9.0mm Max							
PA0515.221NLT	225	225	35	0.63 ±9.5%	68	59	35
PA0515.271NLT	270	280	35		50	44	
PA0515.321NLT	325	325	35		43	36	
PA0515.471NLT	470	380	23		30	23	
PA0513NL and PA1513NL - 13.5mm x 13.0mm x 8.0mm Max							
PA0513.211NLT	210	210	45	0.32 ±9.4%	71	64	45
PA0513.261NLT	260	260	45		60	55	
PA0513.321NLT	320	285	41		50	45	
PA0513.441NLT	440	363	30		35	30	
PA1513.211NLT	210	210	45	0.53 ±11.3%	71	64	45
PA1513.261NLT	260	260	45		60	55	
PA1513.321NLT	320	285	41		50	45	
PA1513.441NLT	440	363	30		35	30	

NOTES:

- The rated current as listed is either the saturation current or the heating current depending on which value is lower.
- The nominal DCR tolerance is by design. The nominal DCR is measured from point (A) to point (B), as shown below on the mechanical drawing.
- The saturation current is the typical current which causes the inductance to drop by 20% at the stated ambient temperatures (25°C and 100°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.

- The heating current is the DC current which causes the part temperature to increase by approximately 40°C. This current is determined by soldering the component on a typical application PCB, and then applying the current to the device for 30 minutes without any forced air cooling.

(continued)

SMT POWER INDUCTORS

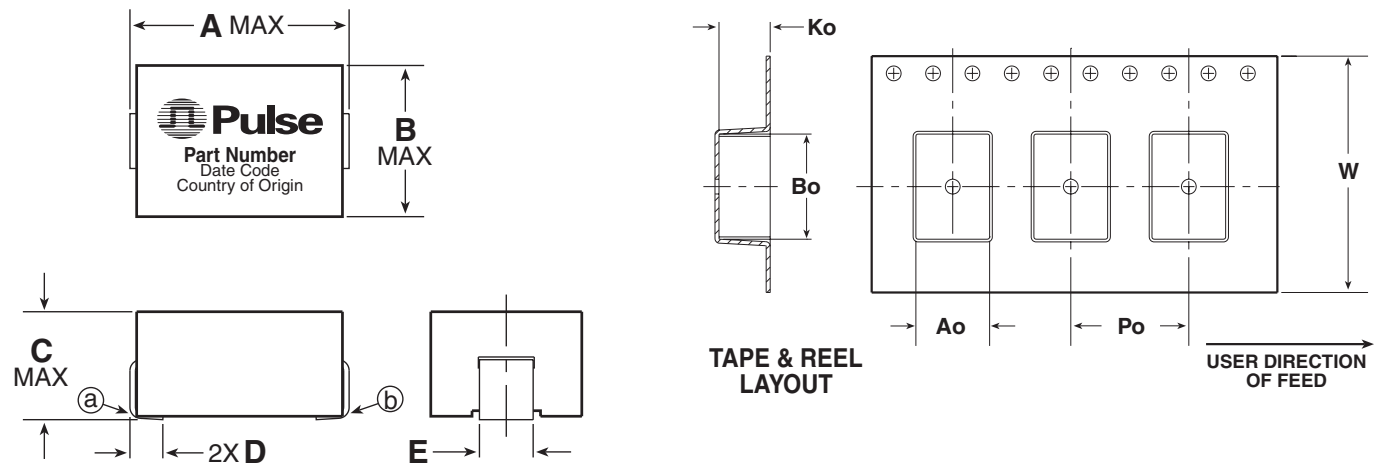
Power Beads - PA051XNL, PA121XNL, PA151XNL Series



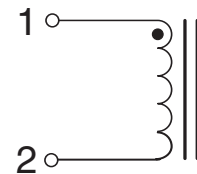
NOTES (continued):

5. In high volt*time applications, additional heating in the component can occur due to core losses in the inductor which may necessitate derating the current in order to limit the temperature rise of the component. To determine the approximate total losses (or temperature rise) for a given application, the coreloss and temperature rise curves can be used.
6. Pulse complies to industry standard tape and reel specification EIA481.
7. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical



Schematic



Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are $\pm \begin{matrix} .010 \\ 0,25 \end{matrix}$

SUGGESTED PAD LAYOUT

Dimensions (inches/mm)

Part Number	Mechanical Dimensions								T&R Dimensions					Parts/Reel	Weight (grams)
	A (MAX)	B (MAX)	C (MAX)	D (NOM)	E (NOM)	F (NOM)	G (NOM)	H (NOM)	Ao	Bo	Ko	Po	W		
PA0512/PA1212	.276 7,00	.276 7,00	.195 4,96	.060 1,52	.098 2,49	.120 3,05	.080 2,03	.130 3,30	.295 7,49	.300 7,62	.205 5,21	.472 12,00	.630 16,00	1000	0.94
PA0511/PA1211	.400 10,20	.276 7,00	.195 4,96	.060 1,52	.098 2,49	.120 3,05	.080 2,03	.250 6,35	.295 7,49	.420 10,67	.205 5,21	.472 12,00	.945 24,00	1000	1.35
PA0515	.440 11,18	.440 11,18	.354 9,00	.100 2,54	.080 2,03	.100 2,54	.120 3,05	.210 5,33	.453 11,50	.453 11,50	.378 9,60	.945 24,00	.945 24,00	250	4.5
PA0513/PA1513	.530 13,46	.510 12,95	.315 8,00	.100 2,54	.200 5,08	.300 7,62	.125 3,18	.280 7,11	.525 13,34	.525 13,34	.320 8,13	.630 16,00	.945 24,00	400	5.7

SMT POWER INDUCTORS

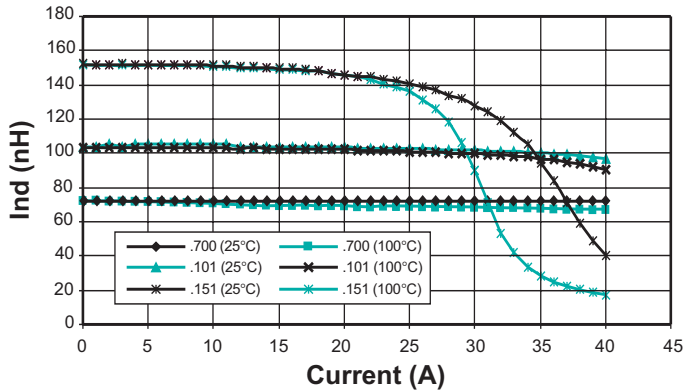
Power Beads - PA051XNL, PA121XNL, PA151XNL Series



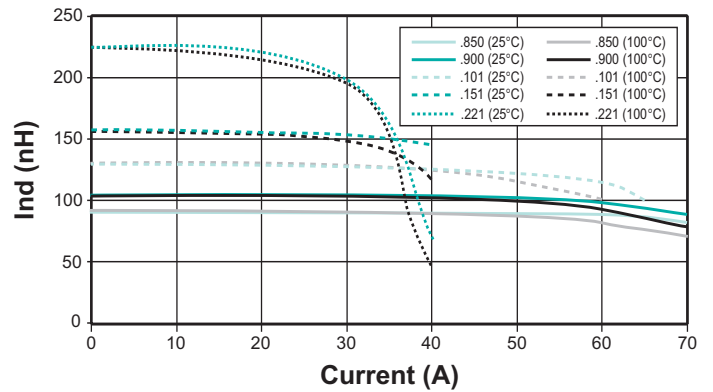
PA0512NL & PA1212NL

PA0511NL & PA1211NL

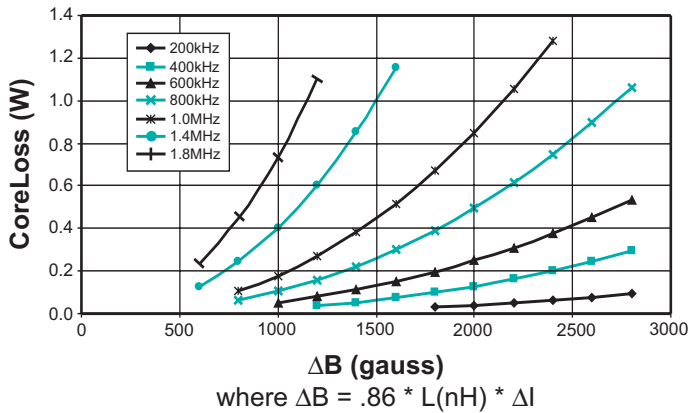
Inductance vs Current



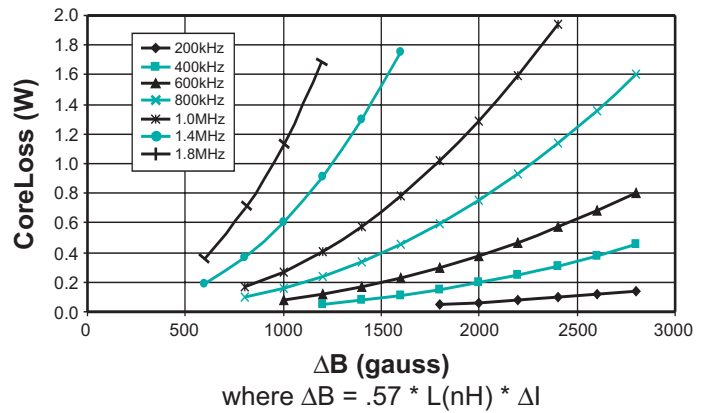
Inductance vs Current



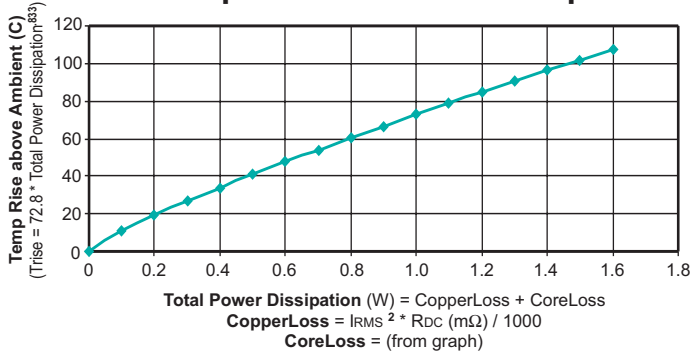
CoreLoss vs Flux Density



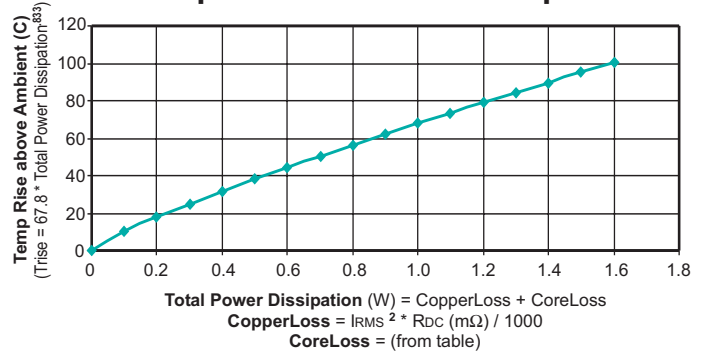
CoreLoss vs Flux Density



Temp Rise vs Power Dissipation

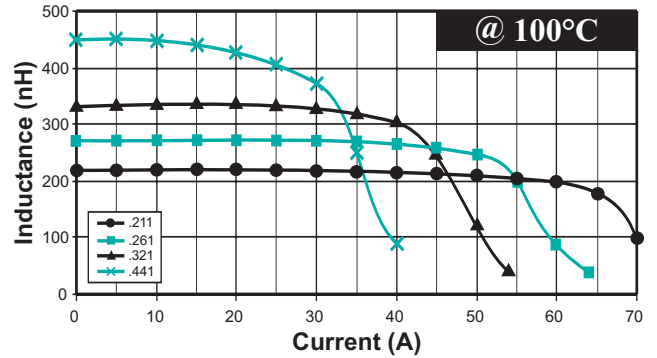
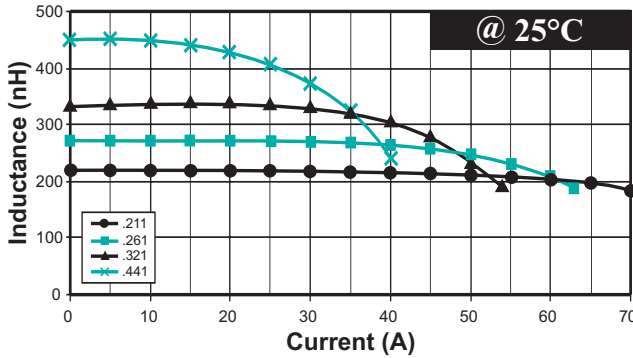


Temp Rise vs Power Dissipation

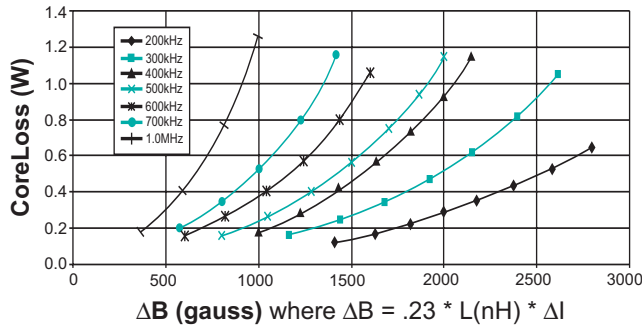


PA0513NL & PA1513NL

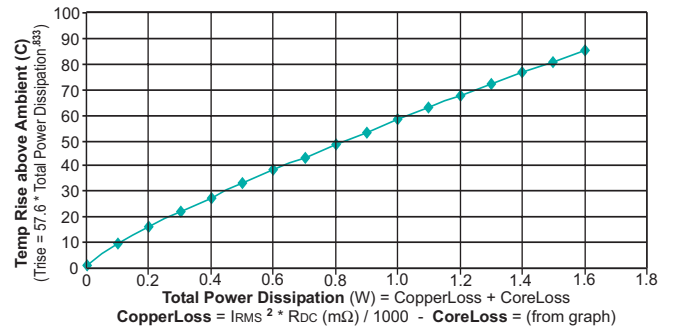
Typical Inductance vs Current



CoreLoss vs Flux Density

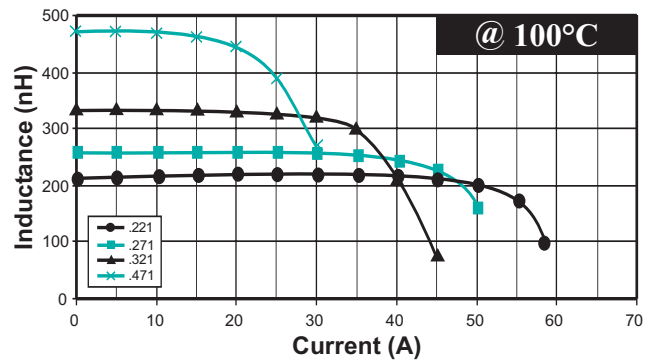
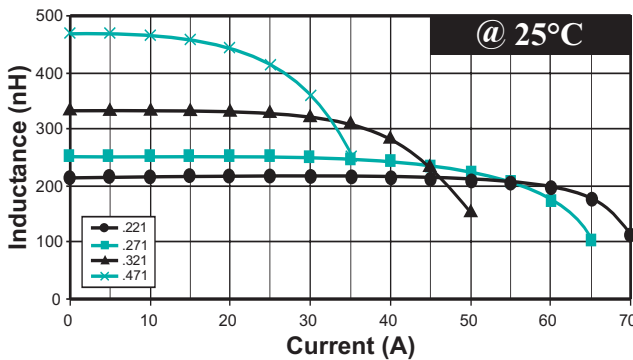


Temp Rise vs Power Dissipation

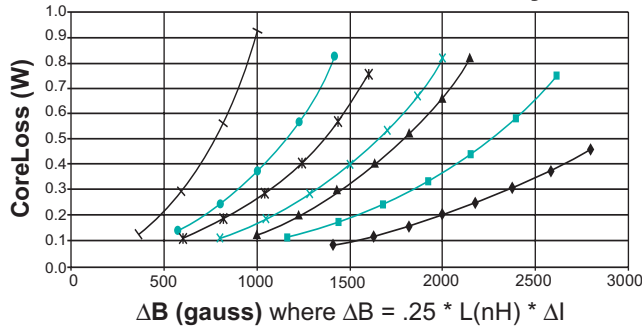


PA0515NL

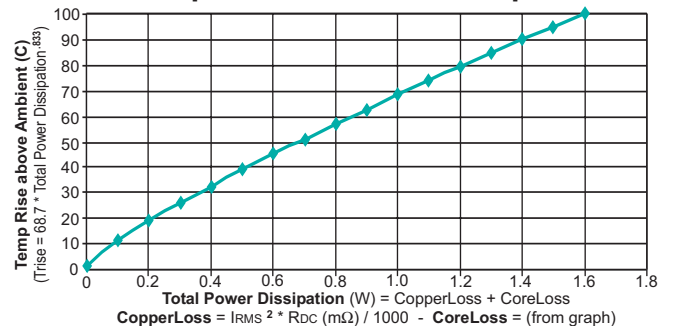
Typical Inductance vs Current



CoreLoss vs Flux Density



Temp Rise vs Power Dissipation



SMT POWER INDUCTORS

Toroid - SLIC Series



Fifteen package sizes



Current Rating: up to 23.8ADC



Frequency Range: up to 1MHz



Pulse

A TECHNITROL COMPANY

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

Pulse Part Number ^{4,5}	Inductance @ Irated (μH)	Irated (A)	DCR (mΩ)		Inductance @ 0Adc (μH)	Reference ET (Volt-μsec)	Flux Density Factor (K1)	Core Loss Factor (K2)	Temp. Rise Factor (K3)
			TYP	MAX					
LCI-20									
PE-53630NL	1.01	3.40	9.35	11	1.1	0.53	5.43	3.29E-11	323.9
PE-53600NL	6.2	1.40	59.5	70	7	1.33	2.17	3.29E-11	323.9
PE-53601NL	17.6	1.00	106.25	125	22.7	2.4	1.21	3.29E-11	323.9
LCI-30									
PE-53650NL	3.8	4.80	14.705	17.3	5.2	1.76	1.28	1.39E-10	148.0
PE-53631NL	9.4	2.80	36.89	43.4	12.3	2.7	0.83	1.39E-10	148.0
PE-53602NL	29.7	1.40	141.1	166	35.3	4.6	0.49	1.39E-10	148.0
PE-53606NL	114	0.94	365	405	167	10	0.23	1.39E-10	148.0
LCI-37									
PE-53661NL	2.5	8.00	7.055	8.3	3.8	1.77	1.30	1.87E-10	114.2
PE-53651NL	5.1	5.40	15.045	17.7	7.5	2.51	0.92	1.87E-10	114.2
PE-53632NL	16.2	2.70	63	72	21.9	4.29	0.54	1.87E-10	114.2
PE-53604NL	58.1	1.30	246.5	290	73	7.83	0.29	1.87E-10	114.2
PE-53608NL	192	0.90	476	560	292	15.7	0.15	1.87E-10	114.2
PE-53611NL	383	0.72	732.7	862	672	23.5	0.10	1.87E-10	114.2
LCCI-37									
PE-53717NL	43.6	1.1	247.2	309	77	7.83	0.295	1.87E-10	114.23
LCI-44									
PE-53662NL	4.9	7.80	10.54	12.4	7.9	3.04	0.67	3.35E-10	85.7
PE-53652NL	9	5.50	25	28	14	4.06	0.51	3.35E-10	85.7
PE-53633NL	29.1	2.70	85	100	40.5	6.9	0.30	3.35E-10	85.7
PE-53613NL	645	0.74	1062.5	1250	1134	36.5	0.06	3.35E-10	85.7
HCI-37									
PE-53690NL	0.81	14.30	2.125	2.5	1.25	1.035	2.23	1.87E-10	114.2
PE-53680NL	1.32	11.50	3.4	4.0	2.1	1.33	1.74	1.87E-10	114.2
LCCI-44									
PE-53718NL	21.9	2.7	72.4	90.5	39.5	6.9	0.297	3.35E-10	85.71
HCI-44									
PE-53691*NL	1.68	13.90	3.06	3.6	2.8	1.83	1.12	3.35E-10	85.7
PE-53681NL	2.5	11.40	4.59	5.4	4.2	2.23	0.92	3.35E-10	85.7
LCI-50									
PE-53663NL	9.3	7.20	15.895	18.7	16	4.92	0.41	4.52E-10	67.9
PE-53653NL	16.1	5.10	27.2	32.0	25.9	6.27	0.32	4.52E-10	67.9
PE-53634NL	50	2.60	113.05	133	72.9	10.5	0.19	4.52E-10	67.9
PE-53614NL	1070	0.71	1445	1700	1950	54.4	0.04	4.52E-10	67.9
LCCI-50									
PE-53719NL	4.025	6.4	18.4	23	6.575	3.135	0.638	4.52E-10	67.89
HCI-50									
PE-53692*NL	3.5	12.40	5.61	6.6	6.5	3.1	0.64	4.52E-10	67.9
PE-53682NL	4.7	10.40	7.055	8.3	8.4	3.58	0.56	4.52E-10	67.9
HCCI-44									
PE-53361NL	0.53	23.8	1.0	3	0.88	1	2.020	3.35E-10	85.71
HCCI-50									
PE-53362NL	1.1	21	1.7	2.5	2.1	1.75	1.116	4.52E-10	67.89
HCI-68									
PE-53700*NL	5.2	15.40	5.27	6.2	10.5	5.21	0.35	9.58E-10	44.6
PE-53683NL	9.4	10.90	10.455	12.3	17.6	6.84	0.27	9.58E-10	44.6
HCCI-68									
PE-53363NL	2.1	22.4	2.5	3.4	4	3.25	0.559	9.58E-10	44.56

NOTES:

- Reference values are for an inductor with a 55°C temperature rise. The core loss is 10% of the copper loss at the ET listed and 500kHz.
- Core does not saturate abruptly. The ET and DC current are limited by the desired inductance and temperature rise.
- In high volt-time applications, additional heating in the component can occur due to core losses in the inductor which may necessitate derating the current in order to limit the temperature rise of the component. In order to determine the approximate total losses (or temperature rise) for a given application, both copper and core losses should be taken into account.

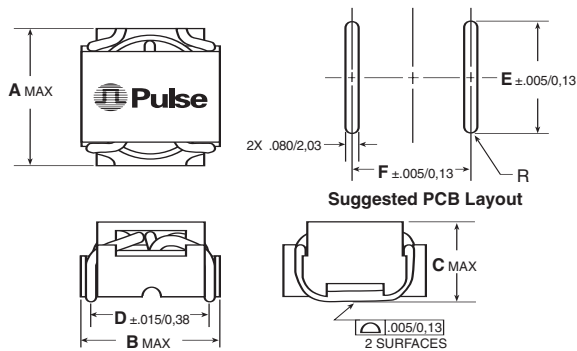
Estimated Temperature Rise:

$$\begin{aligned} \text{Trise} &= K3 * (\text{Coreloss(W)} + \text{Copperloss(W)})^{0.33} \text{ (C)} \\ \text{CopperLoss} &= \text{Irms}^2 * \text{DCR_Typical (m}\Omega) / 1000 \\ \text{CoreLoss} &= K2 * (\text{Freq_kHz})^{1.26} * (\Delta B)^{2.11} \\ \Delta B &= K1 * \text{Volt-}\mu\text{sec} * 100 \end{aligned}$$

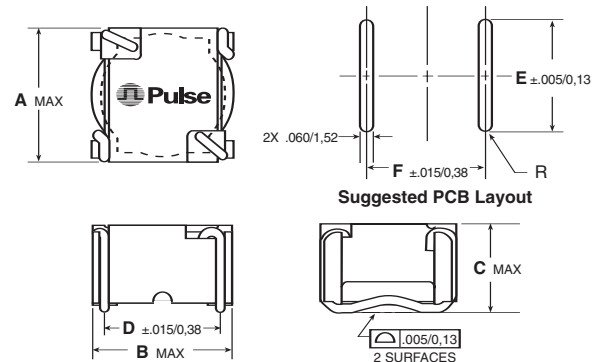
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PE-53600NL becomes PE-53600NLT). Pulse complies to industry standard tape and reel specification EIA481.
- The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily 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.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanicals

High Current Inductors (HCI)



Low Current Inductors (LCI)



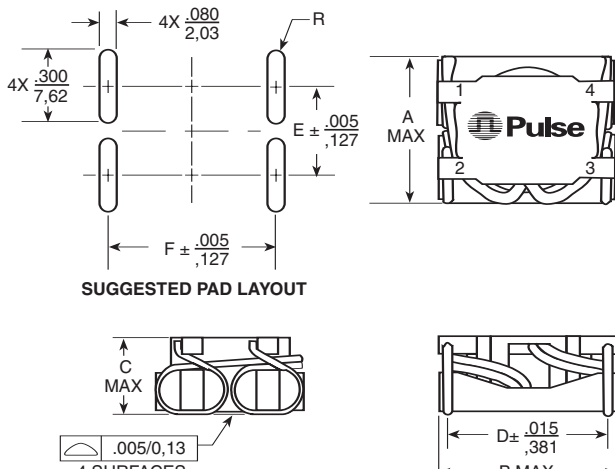
* Dimension "C" is .400/10,16 for the marked models because of heavier wire gage.

PKG	A	B	C	D	E	F
HCI-37	.620 15,75	.605 15,37	.370 9,40	.500 12,70	.440 11,18	.500 12,70
HCI-44	.670 17,02	.670 17,02	.390* 9,91	.560 14,22	.490 12,45	.570 14,48
HCI-50	.740 18,80	.740 18,80	.390* 9,91	.630 16,00	.560 14,22	.640 16,26
HCI-68	.940 23,88	.940 23,88	.390* 9,91	.820 20,83	.700 17,78	.830 21,08

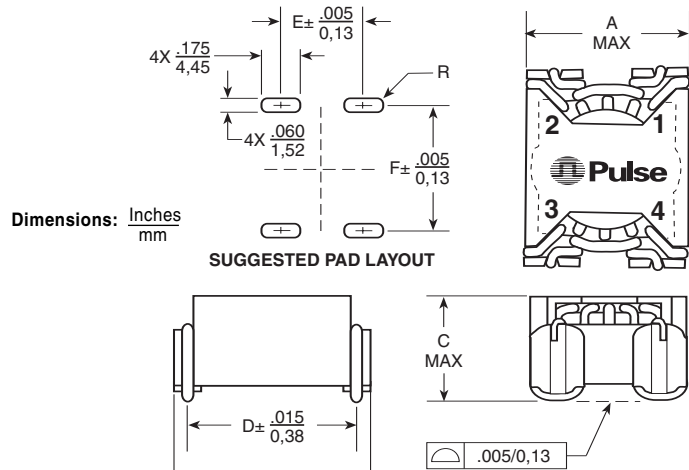
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

PKG	A	B	C	D	E	F
LCI-20	.340 8,64	.340 8,64	.270 6,86	.260 6,60	.300 7,62	.270 6,86
LCI-30	.435 11,05	.440 11,18	.360 9,14	.350 8,89	.400 10,16	.360 9,14
LCI-37	.565 14,35	.570 14,48	.360 9,14	.450 11,43	.520 13,21	.460 11,68
LCI-44	.600 15,24	.620 15,75	.390 9,91	.500 12,70	.550 13,97	.500 12,70
LCI-50	.670 17,02	.700 17,78	.390 9,91	.580 14,73	.620 15,75	.590 14,99

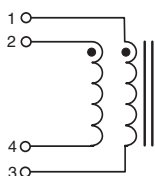
High Current Coupled Inductors (HCCI)



Low Current Coupled Inductors (LCCI)



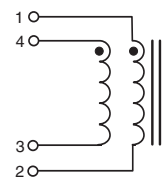
Schematic



Size Codes

	HCCI-44	HCCI-50	HCCI-68	LCCI-37	LCCI-44	LCCI-50
A	.715/18,16	.800/20,32	1.000/25,40	.560/14,22	.590/14,99	.670/17,02
B	.865/21,97	.910/23,11	1.110/28,19	.645/16,38	.715/18,16	.770/19,56
C	.390/9,91	.390/9,91	.390/9,91	.350/8,89	.390/9,91	.390/9,91
D	.760/10,30	.800/20,32	1.000/25,40	.520/13,21	.600/15,24	.650/16,51
E	.360/9,14	.440/11,18	.620/15,75	.340/8,64	.370/9,40	.445/11,30
F	.770/19,56	.810/20,57	1.010/25,65	.530/13,46	.610/15,49	.660/16,76

Schematic



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

THT/SMT POWER INDUCTORS

Toroid - Designed for National's 150kHz Simple Switcher™



Tested and recommended by National Semiconductor



Base material meets flammability requirements of UL 94V-0



Available in surface mount and through hole versions

Electrical Specifications @ 25°C— Operating Temperature -40° to +130° C⁷

Pulse ⁶ THT Part Number	Pulse ^{5,6} SMT Part Number	National Part Number	In Circuit Operating Parameters ¹			Nominal DCR (Ω)	Package		
			Nominal Inductance (μH)	Rated Current (A _{DC})	Max ² E _{TOP} (V-μSec)		Through Hole	Surface Mount	Lead Diameter
PE-53801NL	PE-53801SNL	LM259X-L1	259	0.13	23.1	3.4	LP-25	LCI-20	—
PE-53802NL	PE-53802SNL	LM259X-L2	178	0.16	16.5	2.8	LP-25	LCI-20	—
PE-53803NL	PE-53803SNL	LM259X-L3	118	0.2	13.2	1.8	LP-25	LCI-20	—
PE-53804NL	PE-53804SNL	LM259X-L4	79	0.25	9.9	1.5	LP-25	LCI-20	—
PE-53805NL	PE-53805SNL	LM259X-L5	55	0.3	6.6	1.0	LP-25	LCI-20	—
PE-53806NL	PE-53806SNL	LM259X-L6	39	0.34	6.6	.80	LP-25	LCI-20	—
PE-53807NL	PE-53807SNL	LM259X-L7	26	0.45	6.6	.62	LP-25	LCI-20	—
PE-53808NL	PE-53808SNL	LM259X-L8	374	0.2	75.9	2.7	LP-30	LCI-30	—
PE-53809NL	PE-53809SNL	LM259X-L9	256	0.25	33	2.2	LP-30	LCI-30	—
PE-53810NL	PE-53810SNL	LM259X-L10	176	0.3	26.4	1.4	LP-30	LCI-30	—
PE-53811NL	PE-53811SNL	LM259X-L11	118	0.38	19.8	1.2	LP-30	LCI-30	—
PE-53812NL	PE-53812SNL	LM259X-L12	78	0.46	16.5	0.8	LP-30	LCI-30	—
PE-53813NL	PE-53813SNL	LM259X-L13	55	0.56	13.2	0.5	LP-30	LCI-30	—
PE-53814NL	PE-53814SNL	LM259X-L14	39	0.68	9.9	0.3	LP-30	LCI-30	—
PE-53815NL	PE-53815SNL	LM259X-L15	26	0.84	6.6	0.2	LP-30	LCI-30	—
PE-53816NL	PE-53816SNL	LM259X-L16	17	1.02	6.6	0.1	LP-30	LCI-30	—
PE-53817NL	PE-53817SNL	LM259X-L17	375	0.36	75.9	1.3	LP-37	LCI-37	—
PE-53818NL	PE-53818SNL	LM259X-L18	252	0.44	49.5	0.9	LP-37	LCI-37	—
PE-53819NL	PE-53819SNL	LM259X-L19	173	0.54	36.3	0.6	LP-37	LCI-37	—
PE-53820NL	PE-53820SNL	LM259X-L20	115	0.67	29.7	0.4	LP-37	LCI-37	—
PE-53821NL	PE-53821SNL	LM259X-L21	78	0.82	23.1	0.3	LP-37	LCI-37	—
PE-53822NL	PE-53822SNL	LM259X-L22	54	1.0	16.5	0.2	LP-37	LCI-37	—
PE-53823NL	PE-53823SNL	LM259X-L23	38	1.2	13.2	0.1	LP-37	LCI-37	—
PE-53824NL	PE-53824SNL	LM259X-L24	26	1.48	9.9	0.1	LP-37	LCI-37	—
PE-53825NL	PE-53825SNL	LM259X-L25	18	1.81	9.9	0.06	LP-37	LCI-37	—
PE-53826NL	PE-53826SNL	LM259X-L26	377	0.68	75.9	1.0	LP-44	LCI-44	—
PE-53827NL	PE-53827SNL	LM259X-L27	248	0.83	72.6	0.6	LP-44	LCI-44	—
PE-53828NL	PE-53828SNL	LM259X-L28	168	1.02	56.1	0.4	LP-44	LCI-44	—
PE-53829NL	PE-53829SNL	LM259X-L29	112	1.26	42.9	0.3	LP-44	LCI-44	—
PE-53830NL	PE-53830SNL	LM259X-L30	77	1.54	33	0.2	LP-44	LCI-44	—
PE-53831NL	PE-53831SNL	LM259X-L31	53	1.87	26.4	0.13	LP-44	LCI-44	—
PE-53932NL	PE-53932SNL	LM259X-L32	37	2.24	19.8	0.10	LP-44	LCI-44	—
PE-53933NL	PE-53933SNL	LM259X-L33	24	2.74	16.5	0.07	LP-44	LCI-44	—
PE-53934NL	PE-53934SNL	LM259X-L34	17	3.0	13.2	0.05	KM-1.0	LCI-44	.023
PE-53935NL	PE-53935SNL	LM259X-L35	250	1.5	72.6	0.23	KM-3.0	HCI-68	.023
PE-54036NL	PE-54036SNL	LM259X-L36	168	1.81	75.9	0.18	KM-3.0	HCI-68	.023
PE-54037NL	PE-54037SNL	LM259X-L37	114	2.22	62.7	0.10	KM-3.0	HCI-68	.025
PE-54038NL	PE-54038SNL	LM259X-L38	77	2.7	52.8	0.09	KM-3.0	HCI-68	.025
PE-54039NL	PE-54039SNL	LM259X-L39	53	3.0	42.9	0.08	KM-3.0	HCI-68	.025
PE-54040NL	PE-54040SNL	LM259X-L40	38	3.0	29.7	0.05	KM-3.0	HCI-68	.028
PE-54041NL	PE-54041SNL	LM259X-L41	25	3.0	19.8	0.04	KM-2.0	LCI-50	.028
PE-54042NL	—	LM259X-L42	167	2.5	75.9	0.14	KM-4.0	—	.028
PE-54043NL	—	LM259X-L43	121	3.0	75.9	0.09	KM-4.0	—	.031
PE-54044NL	PE-54044SNL	LM259X-L44	77	3.0	59.4	0.08	KM-3.0	HCI-68	.025
PE-53900NL	—	LM258X-L	19	4.5	32 ³	0.02	KM-3.0	—	.035

NOTES:

- Inductance values may vary ±20%.
- E_{TOP} rated at 150kHz except where designated.
- E_{TOP} rated at 100kHz.
- SIMPLE SWITCHER™ is a trademark of National Semiconductor Corp.
- For SMT parts, optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PE-53801SNL becomes PE-53801SNLT). Pulse complies to industry standard tape and reel specification EIA481.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.
- 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.

USA 858 674 8100 • Germany 49 7032 7806 0 • Singapore 65 6287 8998 • Shanghai 86 21 54643211 / 2 • China 86 755 33966678 • Taiwan 886 3 4641811

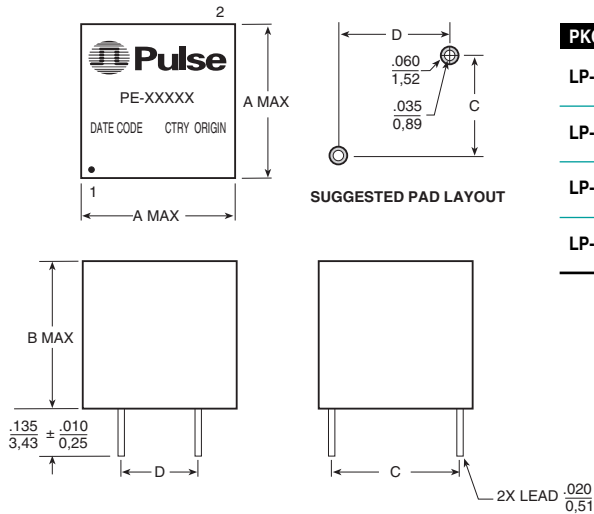
THT/SMT POWER INDUCTORS

Toroid - Designed for National's 150kHz Simple Switcher™



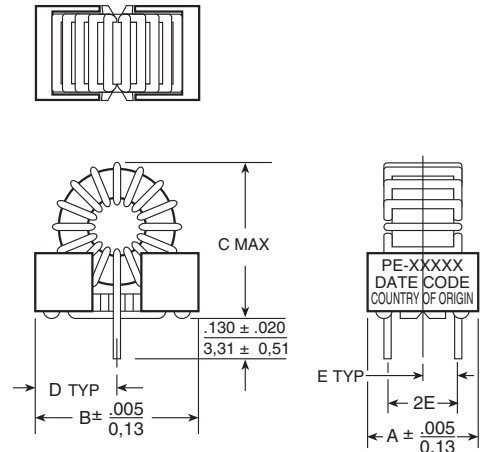
Mechanicals

LP Series



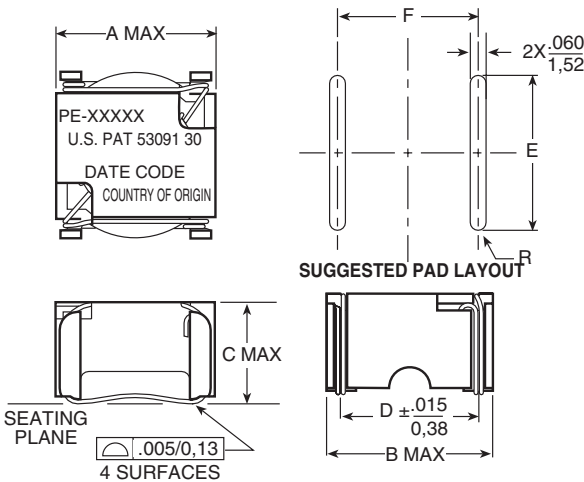
PKG	A	B	C	D
LP-25	.360 9,14	.310 7,87	.250 6,35	.250 6,35
LP-30	.400 10,16	.300 7,62	.300 7,62	.300 7,62
LP-37	.495 12,57	.375 9,52	.375 9,52	.375 9,52
LP-44	.635 16,13	.365 9,27	.500 12,7	.300 7,62

KM Series



PKG	A	B	C	D	E
KM-1.0	.340 8,64	.580 14,73	.650 16,51	.290 7,37	.110 2,79
KM-2.0	.450 11,43	.650 16,51	.700 17,73	.325 8,26	.150 3,81
KM-3.0	.450 11,43	.830 21,08	.950 24,13	.415 10,54	.150 3,81
KM-4.0	.610 15,50	.970 24,64	1.10 27,94	.475 12,07	.225 5,72

LCI Series

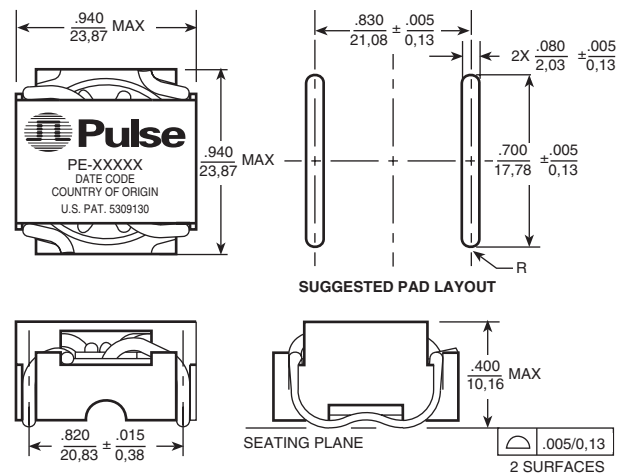


Notes:

1. Dimension "D" is measured across terminal blocks only.
2. Coil must clear seating plane by .010 MIN.

PKG	A	B	C	D	E	F
LCI-20	.340 8,64	.340 8,64	.270 6,86	.260 6,60	.300 7,62	.270 6,86
LCI-30	.435 11,05	.440 11,18	.360 9,14	.350 8,89	.400 10,16	.360 9,14
LCI-37	.565 14,35	.570 14,48	.360 9,14	.450 11,43	.520 13,21	.460 11,68
LCI-44	.600 15,24	.620 15,75	.390 9,91	.500 12,7	.550 13,97	.510 12,95
LCI-50	.670 17,02	.700 17,78	.390 9,91	.580 14,73	.620 15,75	.590 14,99

HCI-68



Note:

Coil must clear seating plane by .010 MIN





Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

SMT COMMON MODE INDUCTORS

0.5A to 3.6A



-  Pick and place compatible
-  Rated voltage 250V_{AC}
-  Low RFI toroid
-  Tape & Reel packaging available

Electrical Specifications @ 25°C — Operating Temperature -40°C to +130°C³

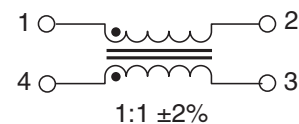
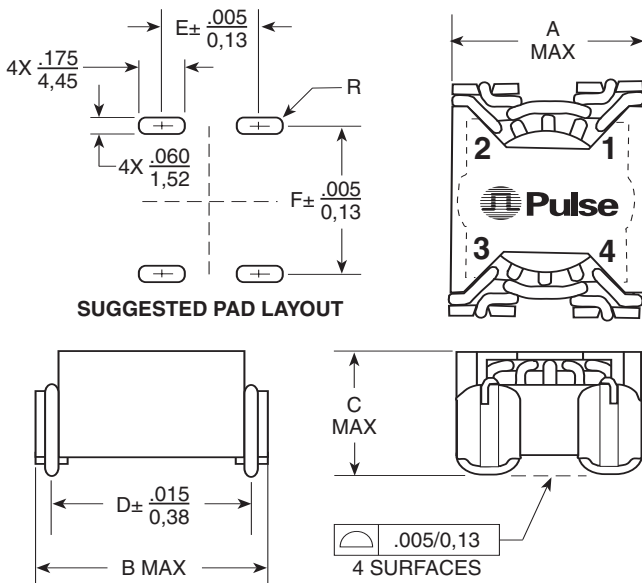
Part ^{1,2} Number	Inductance (mH MIN)	I _{rated} (A)	DCR (MAX) (mΩ)	Typical SRF (MHz)	Impedance Curve	Size Code	Weight (Grams)	Quantity In Tube
PE-53914NL	13.2	0.50	850	0.3	5	LCCI-37	2.4	30
PE-53913NL	6.0	1.00	450	0.5	4	LCCI-37	2.4	30
PE-53912NL	1.8	2.50	80	2.2	3	LCCI-50	5.2	30
PE-53911NL	0.9	1.50	60	2	2	LCCI-37	2.5	30
PE-53910NL	0.6	3.60	50	4	1	LCCI-50	5.3	30

NOTE:

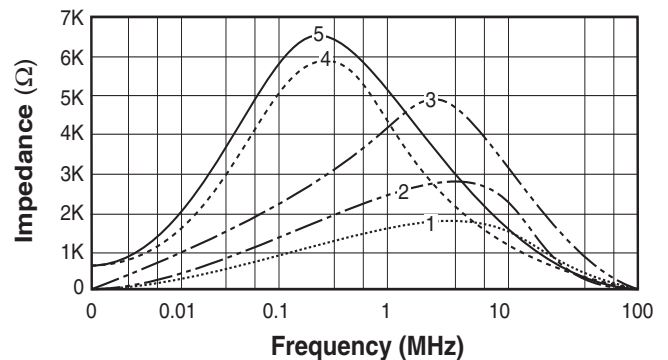
- Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. PE-53914L becomes PE-53914LT). Pulse complies to industry standard tape and reel specification EIA481.
- The "NL" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necessarily RoHS 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.
- The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

Mechanical

Schematic



Typical Impedance Curves



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

Size	A	B	C	D	E	F
LCCI-37	.560/14,22	.645/16,38	.350/8,89	.520/13,21	.340/8,64	.530/13,46
LCCI-50	.670/17,02	.770/19,56	.390/9,90	.650/16,51	.445/11,30	.660/16,76