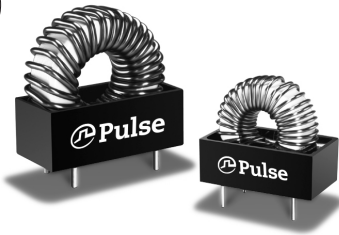


Toroidal Inductors

High Current



- ④ Cost-effective designs
- ④ Semi-encapsulated construction
- ④ Maximum operation temperature of 130°C (Ambient + Rise)
- ④ A 2:1 inductance swing from zero to maximum current

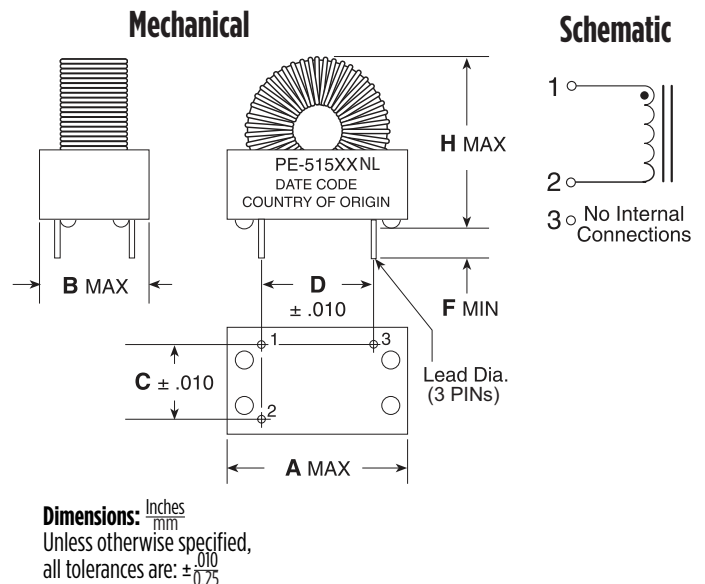
Electrical Specifications @ 25°C

Part Number	Reference Operating Values					Design Control Values				
	Inductance Typical (μH) ²	I _{bc} (AMPS)	ET _{OP} ¹ (V-μSec)		Energy Storage (μJ MIN) ³	Inductance No DC (μH) (±20%)	50kHz Test mV No DC5	DCR (Ω MAX)	Size Code	Lead Diameter (in ±.003)
			20kHz	40kHz						
PE-51506NL	17.0	17.0	190	130	2460	40.0	140	0.0065	3	0.081
PE-51507NL	32.0	16.0	290	200	4100	70.7	270	0.0092	4	0.081
PE-51508NL	60.0	16.0	390	270	7700	120.0	470	0.012	5	0.081
PE-51509NL	14.0	10.0	135	95	700	28.5	73	0.009	1	0.057
PE-51510NL	23.0	11.0	170	120	1400	43.5	130	0.012	2	0.057
PE-51511NL	43.0	10.0	280	195	2150	85.5	210	0.018	3	0.057
PE-51512NL	90.0	10.0	430	300	4500	158.0	420	0.028	4	0.057
PE-51513NL	144.0	10.0	570	400	7200	262.0	700	0.032	5	0.040
PE-51514NL	32.0	6.6	200	140	700	60.5	110	0.025	1	0.040
PE-51515NL	52.0	7.0	230	160	1275	92.0	190	0.032	2	0.040
PE-51516NL	98.0	6.0	400	280	1765	188.0	310	0.048	3	0.040
PE-51517NL	175.0	6.0	620	425	3150	315.0	560	0.068	4	0.040
PE-51518NL	335.0	6.0	840	580	6030	571.0	1000	0.095	5	0.040
PE-51520NL	400	3.6	600	420	2700	688.0	640	0.130	3	0.036

Notes:

- To prevent excessive temperature rise, limit ET_{OP} to the rated ET_{OP} specified. This is not a saturation limit. Temperature rise of inductors is 40 °C MAX at MAX current and rated ET_{OP}.
- A 2:1 nominal inductance swing from no I_{bc} to operating I_{bc} gives improved protection against current discontinuities at light loading. Inductance increases with great ET_{OP}. Reference values occur at I_{bc} and low flux density.
- $\frac{LI^2}{2}$ rating is the ability of the inductor to store energy.
- Design control test voltage is critical. Inductance increases with voltage.

Size Code	1	2	3	4	5
A	1.20/30,48	1.44/36,57	1.60/40,64	1.95/49,53	2.30/58,42
B	0.60/15,24	0.80/20,32	0.80/20,32	0.91/23,11	1.11/28,19
C	0.40/10,16	0.60/15,24	0.60/15,24	0.70/17,78	0.90/22,85
D	0.80/20,32	0.90/22,86	0.90/22,86	1.20/30,48	1.50/38,10
F	0.20/5,08	0.20/5,08	0.20/5,08	0.20/5,08	0.20/5,08
H	1.20/30,48	1.44/36,57	1.72/43,68	2.00/50,80	2.30/58,42



For More Information:

Americas - prodinfo_power@pulseelectronics.com | Europe - power-apps-europe@pulseelectronics.com | Asia - power-apps-asia@pulseelectronics.com

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