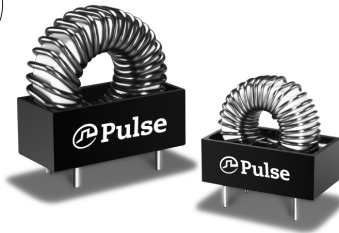


Toroidal Inductors

High Current



Pulse
a YAGEO company

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

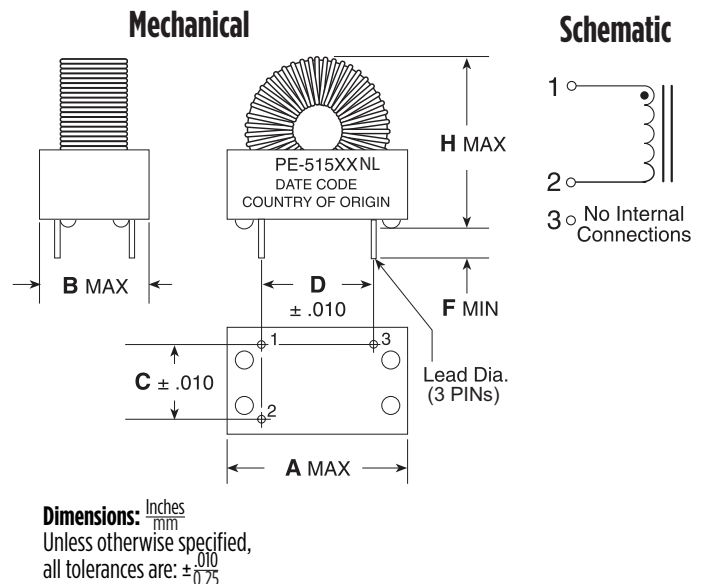
Electrical Specifications @ 25°C

Reference Operating Values						Design Control Values				
Part Number	Inductance Typical (μH) ²	I _{DC} (AMPS)	E _{TOP} 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 E_{TOP} to the rated E_{TOP} specified. This is not a saturation limit. Temperature rise of inductors is 40 °C MAX at MAX current and rated E_{TOP}.
- A 2:1 nominal inductance swing from no I_{DC} to operating I_{DC} gives improved protection against current discontinuities at light loading. Inductance increases with great E_{TOP}. Reference values occur at I_{DC} 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 - prodfinfo_power@pulseelectronics.com | Europe - power-apps-europe@pulseelectronics.com | Asia - power-apps-asia@pulseelectronics.com

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, 2020. Pulse Electronics, Inc. All rights reserved.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Pulse:

[PE51518NL](#)