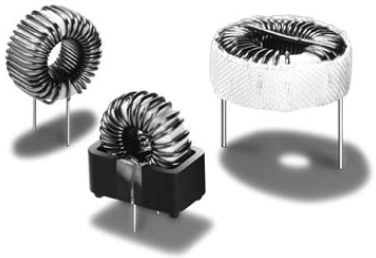
THT Power Inductors

Toroid - Vertical, Low Profile and Klipmount™



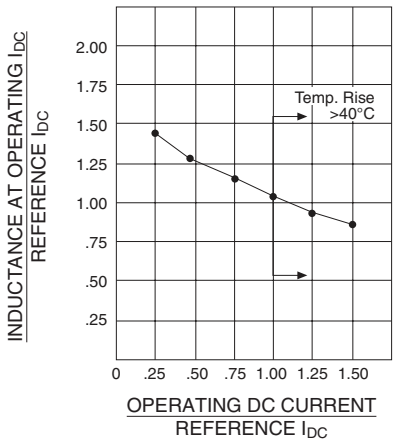
- *Available in vertical, low profile and Klipmount™*
- *SMPS averaging filter*
- *Characterized for general purpose use and ripple filters*
- *Single-layer designs*
- *Can be used as differential mode inductors in EMI filters*[3]

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

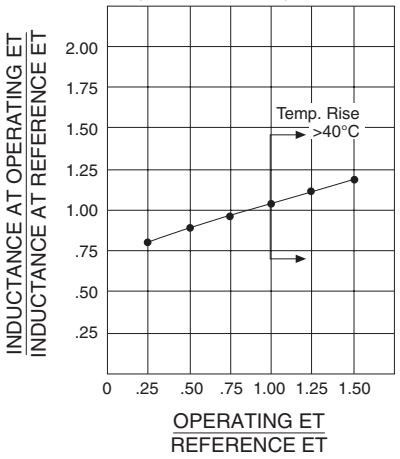
Reference Operating Values						Design Control Values					
Vertical[6] Part Number	Low Profile Part Number	Inductance[1] Typical (µH)	IDC (AMPS)	ET_{OP} (V-µSec)	Energy[4] Storage (µJ)	Inductance No DC (µH) (±20%)	20 kHz Test mV No DC	DCR[5] (Ω MAX)	Coil Size Code	Klip* Mount Package	Lead Diameter (in ± .003)
PE-51591NL	—	20	2.0	52	40	32.8	33	.060	H	—	.020
PE-92100NL	—	25	2.6	30	85	20.7	22	.043	A	KM1	.020
PE-92101NL	PE-92401NL	50	2.6	50	169	45.7	45	.071	B	KM2	.020
PE-92102NL	PE-92402NL	100	2.6	90	338	94.1	90	.100	C	KM3	.020
PE-92103NL	—	35	2.6	55	118	28.4	36	.037	B	KM2	.025
PE-92104NL	PE-92404NL	70	3.0	85	315	61.0	73	.052	C	KM3	.025
PE-92105NL	PE-92405NL	145	3.0	140	653	141.8	140	.087	D	KM4	.025
PE-92106NL	—	285	3.0	300	1283	264.1	340	.140	E	KM5	.025
PE-92107NL	—	450	3.0	425	2025	436.3	500	.200	F	—	.025
PE-92108NL	PE-92408NL	67	3.6	130	648	90.7	110	.045	D	KM4	.032
PE-92109NL	—	165	4.0	240	1320	152.0	260	.070	E	KM5	.032
PE-92110NL	—	270	4.0	350	2160	263.9	400	.100	F	—	.032
PE-92111NL	—	40	4.0	70	320	37.9	57	.027	C	KM3	.032
PE-51590NL	—	22	5.0	44	275	20.3	37	.020	G	—	.032
PE-92112NL	PE-92412NL	100	5.0	200	1250	90.7	180	.034	E	KM5	.042
PE-92113NL	—	170	5.0	300	2125	159.7	310	.050	F	—	.042
PE-92114NL	PE-92414NL	35.6	5.0	100	688	55.6	88	.023	D	KM4	.042
PE-92115NL	—	95	7.0	225	2328	96.0	200	.025	F	—	.051
PE-92116NL	PE-92416NL	55	7.0	150	1348	49.1	100	.017	E	KM5	.051
PE-92117NL	—	55	10.0	175	2750	55.9	120	.013	F	—	.064

* Parts available with KlipMount option can be ordered by adding a "K" suffix to the part number (i.e. PE-92100K).

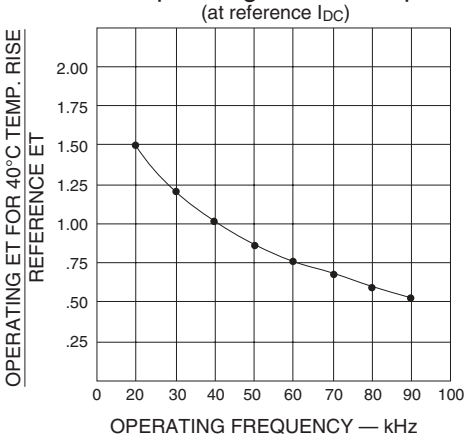
Relationships Between Reference and Operating Conditions



Inductance vs. Operating ET
(at reference I_{DC})



Max. Operating ET vs. Frequency
(at reference I_{DC})

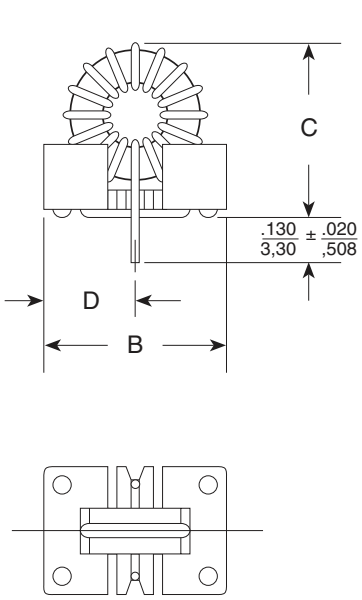


Mechanical **Schematic**

Klipmount™ Package

- Base material meets flammability requirements of UL 94V-0
- Mechanically rigid mount
- PC Board - automatic insertability
- Lowest cost

Standard Package	A	B	C	D	E
	Maximum			Typical	
KM-1	.340 8,64	.580 14,73	.650 16,51	.29 7,37	.110 2,79
KM-2	.450 11,43	.650 16,51	.700 17,78	.325 8,26	.150 3,81
KM-3	.450 11,43	.850 21,59	.950 24,13	.415 10,54	.150 3,81
KM-4	.620 15,50	.970 24,64	1.10 27,94	.475 12,07	.225 5,72
KM-5	.700 17,78	1.30 33,02	1.40 35,56	.625 15,88	.250 6,35



Note: Units with large wire sizes may exceed B dimension.
KLIPMOUNT™ is a trademark of Pulse Engineering, Inc.

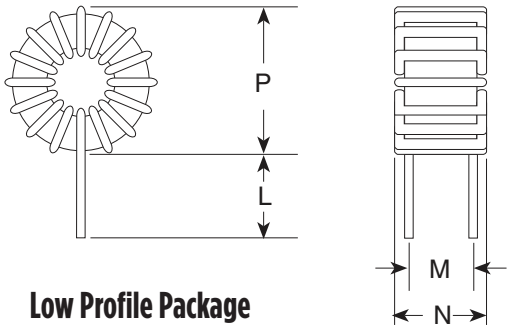
Dimensions: Inches / mm Unless otherwise specified, all tolerances are ± .010 / 0,25

Mechanicals *(continued)*

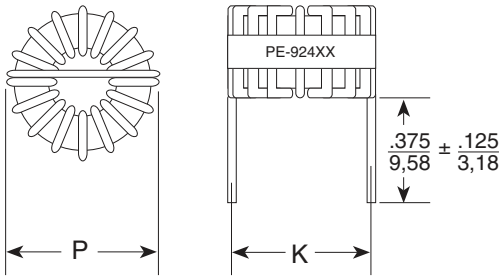
Vertical and Low Profile Package

Size Code	P (MAX)	N (MAX)	L (+.125/-.025)	M	K
A	.550 13,97	.250 6,35	.375 9,53	.180 4,57	——
B	.700 17,78	.380 9,65	.375 9,53	.280 7,11	.530 13,46 ± .050 1,27
C	.850 21,59	.410 10,41	.375 9,53	.280 7,11	.720 18,29 ± .050 1,27
D	1.050 26,67	.550 13,97	.375 9,53	.400 10,16	.840 21,24 ± .020 0,51
E	1.400 35,56	.700 17,78	.375 9,53	.500 12,7	1.100 27,94 ± .100 2,54
F	1.650 41,91	.700 17,78	.375 9,53	.500 12,7	——
G	.850 21,59	.330 8,38	.330 8,38	.330 8,38	——
H	.650 16,26	.280 7,11	.280 7,11	.280 7,11	——

Vertical Package



Low Profile Package



Notes:

1. Typical Inductance occures at I_{DC} and ET_{OP} values shown.
2. Design control test voltage is critical. Inductance increases with voltage.
3. For line filter applications, RMS line current is limited to specified reference DC current.
4. $\frac{LI^2}{2}$ rating is the ability of the inductor to store energy.
5. DCR for vertical part measured close to coil. Add 10% more for low profile part.

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