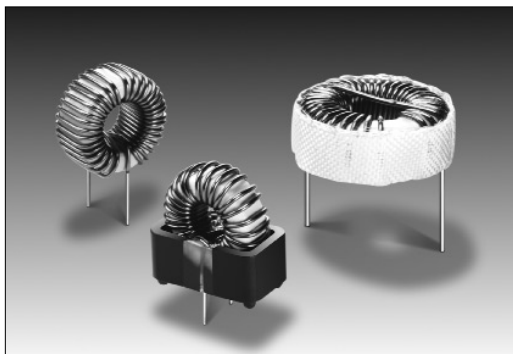


LOW COST INDUCTORS

Electrical Information



- 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 filters³

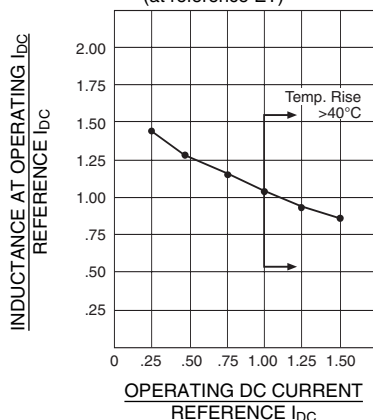
Electrical Specifications @ 25°C — Operating Temperature -30°C to 130°C

REFERENCE OPERATING VALUES						DESIGN CONTROL VALUES					
Vertical Part Number	Low Profile Part Number	Inductance Typical (μH) ¹	I _{DC} (AMPS)	ET _{OP} (V-μSec)	Energy Storage (μJ) ⁴	Inductance No DC (μHy) ±20%	20 KHz Test mV No DC ²	DCR (Ω MAX) ⁵	Coil Size Code	Klip Mount Package*	Lead Diameter (In) ±.003
PE-51591	—	20	2.0	52	40	32.8	33	.060	H	—	.020
PE-92100	—	25	2.6	30	85	20.7	22	.043	A	KM1	.020
PE-92101	PE-92401	50	2.6	50	169	45.7	45	.071	B	KM2	.020
PE-92102	PE-92402	100	2.6	90	338	94.1	90	.100	C	KM3	.020
PE-92103	—	35	2.6	55	118	28.4	36	.037	B	KM2	.025
PE-92104	PE-92404	70	3.0	85	315	61.0	73	.052	C	KM3	.025
PE-92105	PE-92405	145	3.0	140	653	141.8	140	.087	D	KM4	.025
PE-92106	—	285	3.0	300	1283	264.1	340	.140	E	KM5	.025
PE-92107	—	450	3.0	425	2025	436.3	500	.200	F	—	.025
PE-92108	PE-92408	67	3.6	130	648	90.7	110	.045	D	KM4	.032
PE-92109	—	165	4.0	240	1320	152.0	260	.070	E	KM5	.032
PE-92110	—	270	4.0	350	2160	263.9	400	.100	F	—	.032
PE-92111	—	40	4.0	70	320	37.9	57	.027	C	KM3	.032
PE-51590	—	22	5.0	44	275	20.3	37	.020	G	—	.032
PE-92112	PE-92412	100	5.0	200	1250	90.7	180	.034	E	KM5	.042
PE-92113	—	170	5.0	300	2125	159.7	310	.050	F	—	.042
PE-92114	PE-92414	55	5.0	100	688	54.9	88	.023	D	KM4	.042
PE-92115	—	95	7.0	225	2328	96.0	200	.025	F	—	.051
PE-92116	PE-92416	55	7.0	150	1348	49.1	100	.017	E	KM5	.051
PE-92117	—	55	10.0	175	2750	55.9	120	.013	F	—	.064

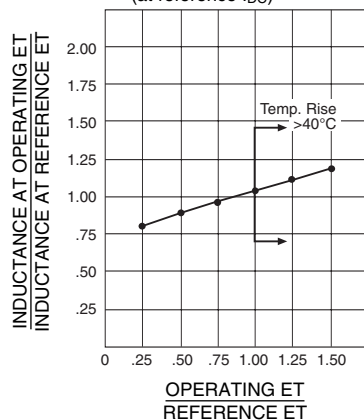
*Parts available with *KlipMount* option can be ordered by adding a "K" suffix to the part number (i.e. PE-92100K).

Relationships Between Reference and Operating Conditions

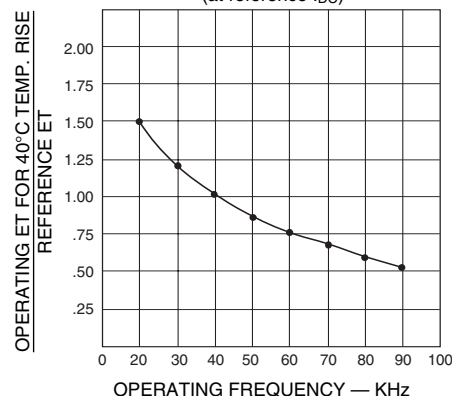
Inductance vs. DC Current
(at reference ET)



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



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



LOW COST INDUCTORS

Mechanical Information



Mechanicals

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

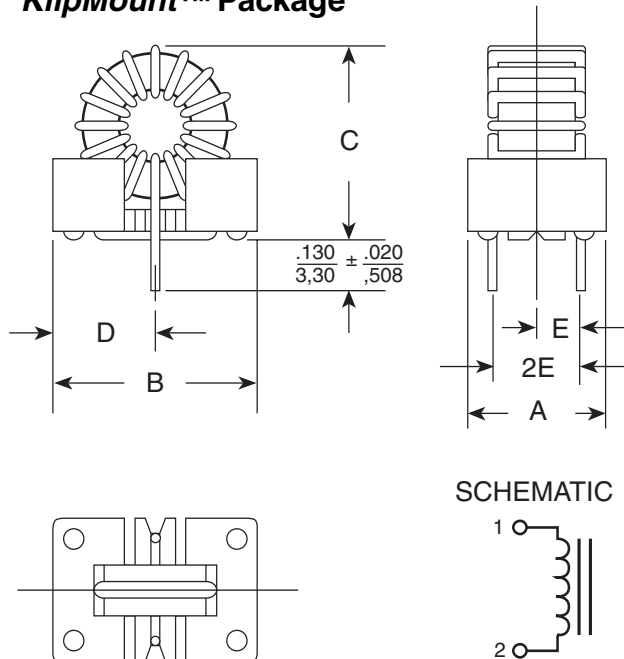
Standard Package	A	B	C	D	E
	Nom. $\pm .005/0,13$	Nom.	Typical		
KM-1	$\frac{.340}{8,64}$	$\frac{.580}{14,73}$	$\frac{.650}{16,51}$	$\frac{.29}{7,37}$	$\frac{.110}{2,79}$
KM-2	$\frac{.450}{11,43}$	$\frac{.650}{16,51}$	$\frac{.700}{17,78}$	$\frac{.325}{8,26}$	$\frac{.150}{3,81}$
KM-3	$\frac{.450}{11,43}$	$\frac{.830}{21,08}$	$\frac{.950}{24,13}$	$\frac{.415}{10,54}$	$\frac{.150}{3,81}$
KM-4	$\frac{.610}{15,50}$	$\frac{.970}{24,64}$	$\frac{1.10}{27,94}$	$\frac{.475}{12,07}$	$\frac{.225}{5,72}$
KM-5	$\frac{.700}{17,78}$	$\frac{1.30}{33,02}$	$\frac{1.40}{35,56}$	$\frac{.625}{15,88}$	$\frac{.250}{6,35}$

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

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

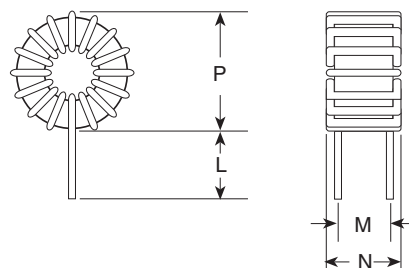
Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

KlipMount™ Package

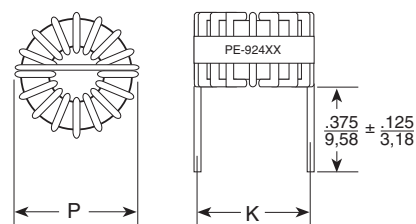


Coil Size	P (MAX)	N (MAX)	L (+.125/-.025)	M	K
A	$\frac{.550}{13,97}$	$\frac{.250}{6,35}$	$\frac{.375}{9,53}$	$\frac{.180}{4,57}$	—
B	$\frac{.700}{17,78}$	$\frac{.380}{9,65}$	$\frac{.375}{9,53}$	$\frac{.280}{7,11}$	$\frac{.530}{13,46} \pm \frac{.050}{1,27}$
C	$\frac{.850}{21,59}$	$\frac{.410}{10,41}$	$\frac{.375}{9,53}$	$\frac{.280}{7,11}$	$\frac{.720}{18,29} \pm \frac{.050}{1,27}$
D	$\frac{1.050}{26,67}$	$\frac{.550}{13,97}$	$\frac{.375}{9,53}$	$\frac{.400}{10,16}$	$\frac{.840}{21,24} \pm \frac{.020}{0,51}$
E	$\frac{1.400}{35,56}$	$\frac{.700}{17,78}$	$\frac{.375}{9,53}$	$\frac{.500}{12,7}$	$\frac{1.100}{27,94} \pm \frac{.100}{2,54}$
F	$\frac{1.650}{41,91}$	$\frac{.700}{17,78}$	$\frac{.375}{9,53}$	$\frac{.500}{12,7}$	—
G	$\frac{.850}{21,59}$	$\frac{.330}{8,38}$	$\frac{.875}{22,23}$	$\frac{.330}{8,38}$	—
H	$\frac{.640}{16,26}$	$\frac{.280}{7,11}$	$\frac{.875}{22,23}$	$\frac{.280}{7,11}$	—

Vertical Package



Low Profile Package



NOTES:

1. Typical Inductance occurs at I_{DC} and ET_{OP} values shown.
2. Design control test voltage 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.