THT POWER INDUCTORS

Toroid - Vertical, Low Profile and KlipMount™



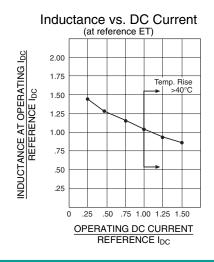


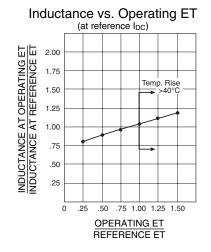
- Available in vertical, low profile and KlipMount™
- SMPS averaging filter
- Characterized for general purpose use and ripple filters
- Single-layer designs
- Can be used as differential mode inductors in EMI filters³

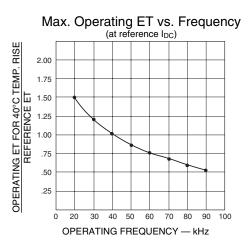
Electrical Specifications @ $25^{\circ}\mathrm{C}$ — Operating Temperature - $40^{\circ}\mathrm{C}$ to $130^{\circ}\mathrm{C}$											
REFERENCE OPERATING VALUES					DESIGN CONTROL VALUES						
Vertical ⁶ Part Number	Low Profile Part Number	Inductance ¹ Typical (µH)	IDC (AMPS)	ETo P (V-μSec)	Energy ⁴ Storage (µJ)	Inductance No DC (µH) ±20%	20kHz Test mV No DC ²	DCR ⁵ (Ω MAX)	Coil Size Code	Klip* Mount Package	Lead Diameter (In) ±.003
PE-51591	_	20	2.0	52	40	32.8	33	.060	Н	_	.020
PE-92100	_	25	2.6	30	85	20.7	22	.043	Α	KM1	.020
PE-92101	PE-92401	50	2.6	50	169	45.7	45	.071	В	KM2	.020
PE-92102	PE-92402	100	2.6	90	338	94.1	90	.100	С	KM3	.020
PE-92103	_	35	2.6	55	118	28.4	36	.037	В	KM2	.025
PE-92104	PE-92404	70	3.0	85	315	61.0	73	.052	С	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	Е	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	Е	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	С	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	Ε	KM5	.042
PE-92113		170	5.0	300	2125	159.7	310	.050	F	_	.042
PE-92114	PE-92414	35.6	5.0	100	688	55.6	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	Е	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







USA 858 674 8100 ● UK 44 1483 401 700 ● France 33 3 84 35 04 04 ● Singapore 65 6287 8998 ● Shanghai 86 21 54643211 / 2 ● China 86 769 85538070 ● Taiwan 886 3 4641811

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Mechanicals

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

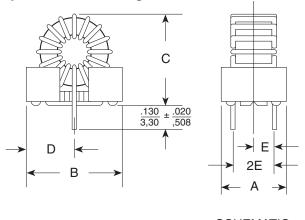
Standard Package	A	В	C	D	E
rackage		Maximun	Typical		
KM-1	<u>.340</u>	<u>.580</u>	<u>.650</u>	<u>.29</u>	.110
	8,64	14,73	16,51	7,37	2,79
KM-2	<u>.450</u>	<u>.650</u>	<u>.700</u>	<u>.325</u>	<u>.150</u>
	11,43	16,51	17,78	8,26	3,81
KM-3	. <u>450</u>	<u>.850</u>	<u>.950</u>	<u>.415</u>	<u>.150</u>
	11,43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

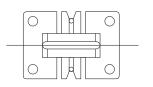
Note: Units with large wire sizes may exceed B dimension. $KLIPMOUNT^{TM}$ is a trademark of Pulse Engineering, Inc.

Dimensions: $\frac{\text{Inches}}{\text{Outside}}$ Unless otherwise specified, all tolerances are $\pm \frac{0.010}{0.25}$

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

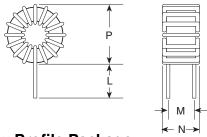
KlipMount™ Package



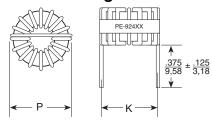




Vertical Package



Low Profile Package



NOTES:

- Typical Inductance occurs at I_{DC} and ET_{OP} values shown.
 Design control test voltage is critical. Inductance increases
- Design control test voltage is critical. Inductance increases with voltage.
- For line filter applications, RMS line current is limited to specified reference DC Current.
- 4. $\frac{\text{LI}^2}{2}$ 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.
- RoHS compliant parts are available. Order RoHS compliant parts by adding the suffix "NL" to the part number (i.e. PE-51591 becomes PE-51591NL).

For More Information:

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