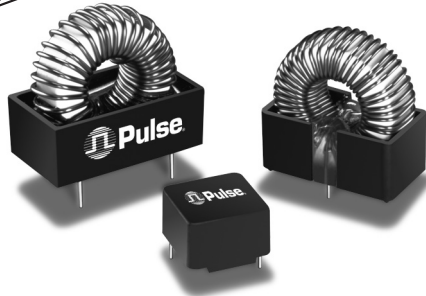


Inductors Designed for National's 50 kHz Simple Switcher™



- Designed for use with National's device numbers LM2574/LM2575/LM2576
- Base material meets flammability requirements of UL 94V-0
- Performance verified by National Semiconductor

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

Part Identification		Reference Operating Values ¹			Design Control Values			
Part Number	Inductor Code	Inductance Typical (μH)	I _{dc} (Amps)	E _{Top} (V-μSec)	Inductance No DC ² (μH ± 20%)	DCR (Ω MAX)	Package Style	Lead Diameter
PE-53112	L47	47	3.0	90	38	0.05	KM-2.0	.025
PE-92114K	L68	36	5.0	90	56	0.02	KM-4.0	.040
PE-92108K	L100	100	3.0	90	91	0.04	KM-4.0	.032
PE-53113	L150	150	2.0	90	130	0.10	KM-4.0	.025
PE-52626	L220	220	1.4	90	230	0.38	Low Profile	.025 SQ.
PE-53145	L220	220	1.4	90	176	0.14	KM-3.0	.020
PE-52627	L330	330	0.9	90	302	0.74	Low Profile	.025 SQ.
PE-53146	L330	330	0.9	90	267	0.18	KM-3.0	.020
PE-53114	L470	470	0.64	90	426	0.16	KM-4.0	.025
PE-52629	L680	680	.85	90	657	1.25	Low Profile	.025 SQ.
PE-53115	H150	150	3.0	200	136	0.10	KM-4.0	.025
PE-53116	H220	220	3.0	200	167	0.07	KM-5.0	.032
PE-53117	H330	330	3.0	200	292	0.15	KM-5.0	.025
PE-53118	H470	470	2.0	200	369	0.17	KM-5.0	.025
PE-53119	H680	680	1.3	200	562	0.20	KM-5.0	.025
PE-53120	H1000	1000	0.95	200	762	0.24	KM-5.0	.025
PE-53121	H1500	1500	0.62	200	1150	1.00	Case	.032
PE-53122	H220	2200	0.42	200	1886	1.80	Case	.032

NOTES:

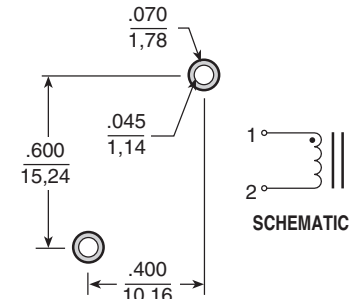
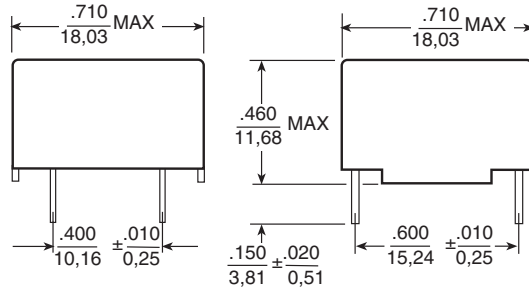
- Typical inductance occurs at the I_{dc} and E_{Top} values shown.
- The control value of inductance is measured at B_{op} equal to or less than 10 gauss without DC current.
- Inductance decreases with higher values of DC current and increases with lower values of DC current.
- Inductance increases with increase in B_{op} or E_{Top}.
- SIMPLE SWITCHER™ is a trademark of National Semiconductor Corporation.
- RoHS compliant parts are available. Order RoHS compliant parts by adding the suffix "NL" to the part number (i.e. PE-53112 becomes PE-53112NL).

Inductors Designed for National's 50 kHz Simple Switcher™



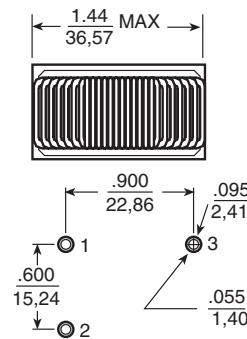
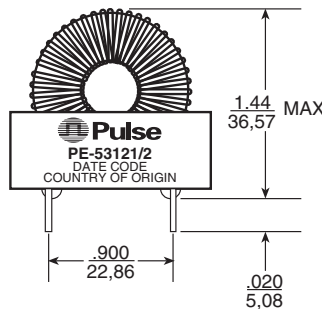
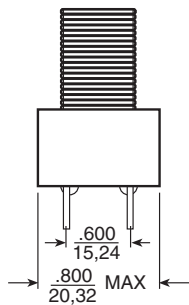
Mechanicals

Low Profile Series



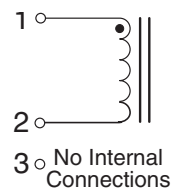
SUGGESTED PAD LAYOUT

Case Series



SUGGESTED PAD LAYOUT

Schematic

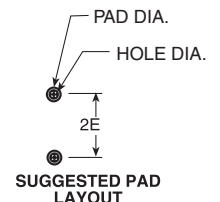
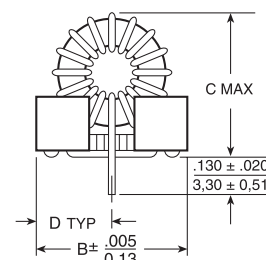
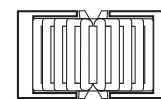


KlipMount Series

PKG	A	B	C	D	E
KM-2.0	.450 11.43	.650 16.51	.700 17.78	.325 8.26	.150 3.81
KM-3.0	.450 11.43	.830 21.08	.950 24.13	.415 10.54	.150 3.81
KM-4.0	.610 15.50	.970 24.64	1.10 27.94	.475 12.07	.225 5.72
KM-5.0	.700 17.78	1.30 33.02	1.40 35.56	.625 15.88	.250 6.35

Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are ± .010
0.25

LEAD DIA.	HOLE DIA.	PAD DIA.
.025	.035	.060
.025 SQ.	.048	.074
.032	.045	.070
.040	.056	.080



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