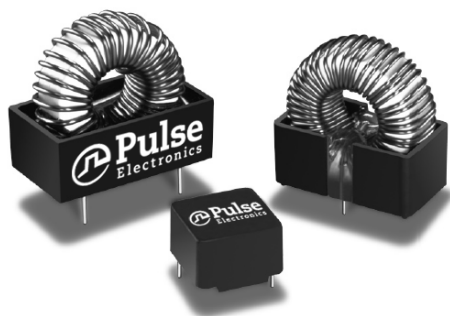
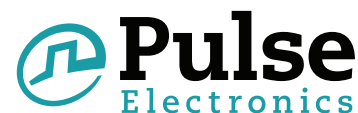


Inductors Designed for National's 50 kHz Simple Switcher™



- ☐ 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-53112NL | L47 | 47 | 3.0 | 90 | 38 | 0.05 | KM-2.0 | .025 |
| PE-92114KNL | L68 | 36 | 5.0 | 90 | 56 | 0.02 | KM-4.0 | .040 |
| PE-92108KNL | L100 | 100 | 3.0 | 90 | 91 | 0.04 | KM-4.0 | .032 |
| PE-53113NL | L150 | 150 | 2.0 | 90 | 130 | 0.10 | KM-4.0 | .025 |
| PE-52626NL | L220 | 220 | 1.4 | 90 | 230 | 0.38 | Low Profile | .025 SQ. |
| PE-53145NL | L220 | 220 | 1.4 | 90 | 176 | 0.14 | KM-3.0 | .020 |
| PE-52627NL | L330 | 330 | 0.9 | 90 | 302 | 0.74 | Low Profile | .025 SQ. |
| PE-53146NL | L330 | 330 | 0.9 | 90 | 267 | 0.18 | KM-3.0 | .020 |
| PE-53114NL | L470 | 470 | 0.64 | 90 | 426 | 0.16 | KM-4.0 | .025 |
| PE-52629NL | L680 | 680 | .85 | 90 | 657 | 1.25 | Low Profile | .025 SQ. |
| PE-53115NL | H150 | 150 | 3.0 | 200 | 136 | 0.10 | KM-4.0 | .025 |
| PE-53116NL | H220 | 220 | 3.0 | 200 | 167 | 0.07 | KM-5.0 | .032 |
| PE-53117NL | H330 | 330 | 3.0 | 200 | 292 | 0.15 | KM-5.0 | .025 |
| PE-53118NL | H470 | 470 | 2.0 | 200 | 369 | 0.17 | KM-5.0 | .025 |
| PE-53119NL | H680 | 680 | 1.3 | 200 | 562 | 0.20 | KM-5.0 | .025 |
| PE-53120NL | H1000 | 1000 | 0.95 | 200 | 762 | 0.24 | KM-5.0 | .025 |
| PE-53121NL | H1500 | 1500 | 0.62 | 200 | 1150 | 1.00 | Case | .032 |
| PE-53122NL | H220 | 2200 | 0.42 | 200 | 1886 | 1.80 | Case | .032 |

NOTES:

1. Typical inductance occurs at the I_{dc} and E_{Top} values shown.
2. The control value of inductance is measured at B_{op} equal to or less than 10 gauss without DC current.
3. Inductance decreases with higher values of DC current and increases with lower values of DC current.
4. Inductance increases with increase in B_{op} or E_{Top}.
5. SIMPLE SWITCHER™ is a trademark of National Semiconductor Corporation.

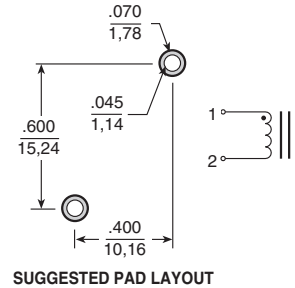
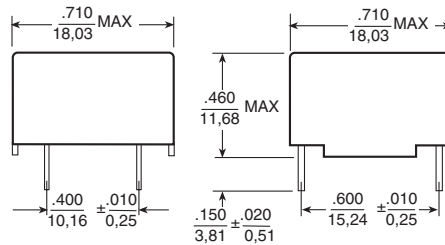
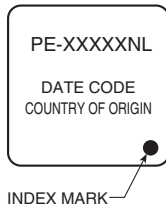
Inductors Designed for National's 50 kHz Simple Switcher™



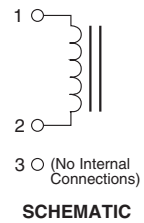
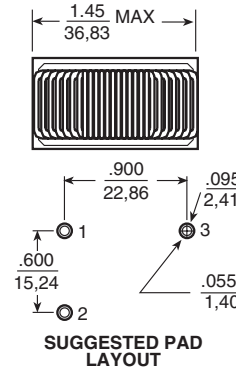
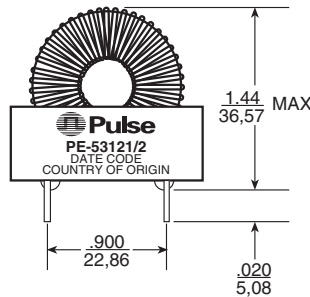
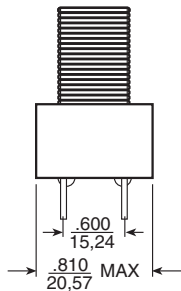
Mechanicals

Schematics

Low Profile Series



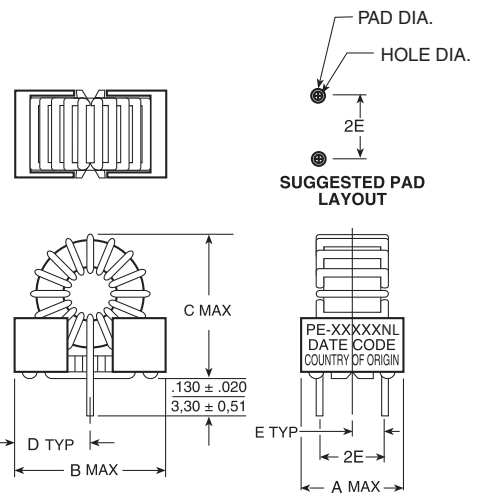
Case Series



KlipMount Series

| PKG | A | B | C | D | E |
|--------|-------|-------|-------|-------|------|
| KM-2.0 | .450 | .650 | .700 | .325 | .150 |
| | 11,43 | 16,51 | 17,78 | 8,26 | 3,81 |
| KM-3.0 | .450 | .850 | .950 | .415 | .150 |
| | 11,43 | 21,59 | 24,13 | 10,54 | 3,81 |
| KM-4.0 | .610 | .970 | 1.10 | .475 | .225 |
| | 15,50 | 24,64 | 27,94 | 12,07 | 5,72 |
| KM-5.0 | .710 | 1.30 | 1.40 | .625 | .250 |
| | 18,03 | 33,02 | 35,56 | 15,88 | 6,35 |

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



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

For More Information

Pulse Worldwide Headquarters

12220 World Trade Drive
San Diego, CA 92128
U.S.A.

Tel: 858 674 8100
Fax: 858 674 8262

Pulse Europe

Pulse Electronics GmbH
Am Rotlland 12
58540 Meinerzhagen
Germany

Tel: 49 2354 777 100
Fax: 49 2354 777 168

Pulse China Headquarters

B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejinan Road
High-Tech Zone
Nanshan District
Shenzhen, PR China 518057

Tel: 86 755 33966678
Fax: 86 755 33966700

Pulse North China

Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road West
Shanghai 200336
China

Tel: 86 21 62787060
Fax: 86 2162786973

Pulse South Asia

135 Joo Seng Road
#03-02
PM Industrial Bldg.
Singapore 368363

Tel: 65 6287 8998
Fax: 65 6287 8998

Pulse North Asia

3F, No. 198
Zhongyuan Road
Zhongli City
Taoyuan County 320
Taiwan R. O. C.

Tel: 886 3 4356768
Fax: 886 3 4356823 (Pulse)
Fax: 886 3 4356820 (FRE)

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, 2016. Pulse Electronics, Inc. All rights reserved.

Mouser Electronics

Authorized Distributor

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

Pulse:

[PE-92114K](#) [PE-52627NL](#) [PE-92114KNL](#) [PE-53113NL](#) [PE-53120NL](#) [PE-53122NL](#) [PE-53117NL](#) [PE-53112NL](#) [PE-53118NL](#) [PE-53119NL](#) [PE-53121NL](#) [PE-53121](#) [PE-53114](#) [PE-53119](#) [PE-53112](#) [PE-53117](#) [PE-53115NL](#) [PE-53116NL](#) [PE-53146NL](#) [PE-53145NL](#) [PE-53114NL](#) [PE-53118](#) [PE-53146](#) [PE-53122](#) [PE-53115](#) [PE-53116](#) [PE-53120](#) [PE-53113](#) [PE-53145](#)