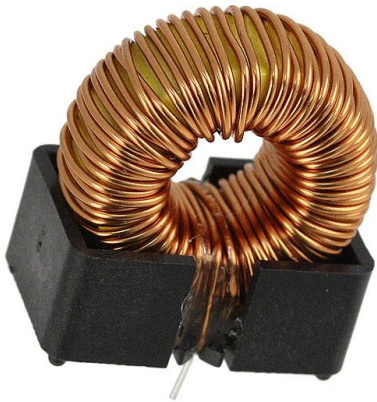


PE-53114NL Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	PE-53114NL-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	PE-53114NL
Description	FIXED IND 470UH 640MA 160MOHM TH
Detailed Description	470 μ H Unshielded Toroidal Inductor 640 mA 160m Ohm Max Radial, Vertical (Open)



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

PE-53114NL

Series:

-

Type:

Toroidal

Inductance:

470 μ H

Current Rating (Amps):

640 mA

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Features:

-

Package / Case:

Radial, Vertical (Open)

Size / Dimension:

0.970" L x 0.610" W (24.64mm x 15.50mm)

Manufacturer:

Pulse Electronics

Product Status:

Active

Material - Core:

-

Tolerance:

\pm 20%

Current - Saturation (Isat):

-

DC Resistance (DCR):

160mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 130°C

Mounting Type:

Through Hole

Supplier Device Package:

-

Height - Seated (Max):

1.100" (27.94mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.4000

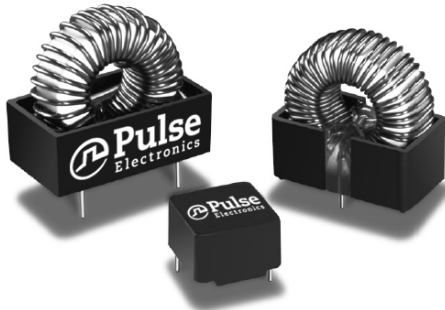
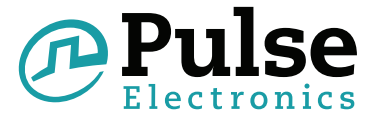
Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

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

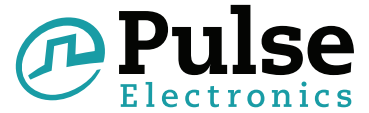
Electrical Specifications @ 25°C— Operating Temperature -40° to +130° C

Part Identification		Reference Operating Values ¹			Design Control Values			
Part Number	Inductor Code	Inductance Typical (μH)	Idc (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:

- 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.

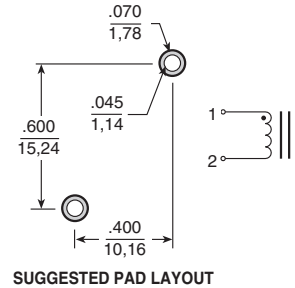
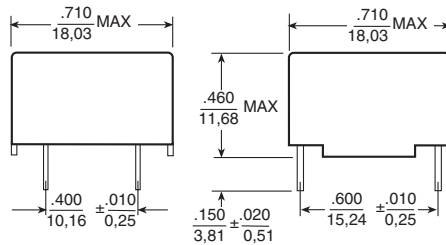
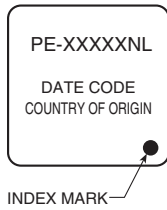
Inductors Designed for National's 50 kHz Simple Switcher™



Mechanicals

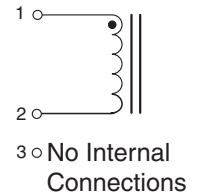
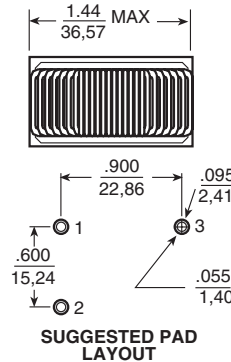
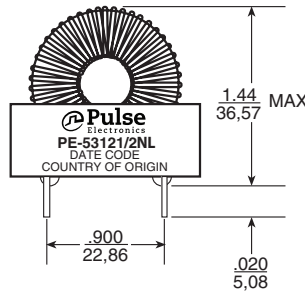
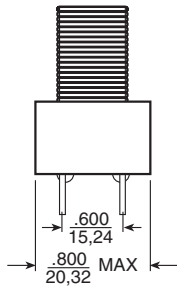
Schematics

Low Profile Series



SUGGESTED PAD LAYOUT

Case Series

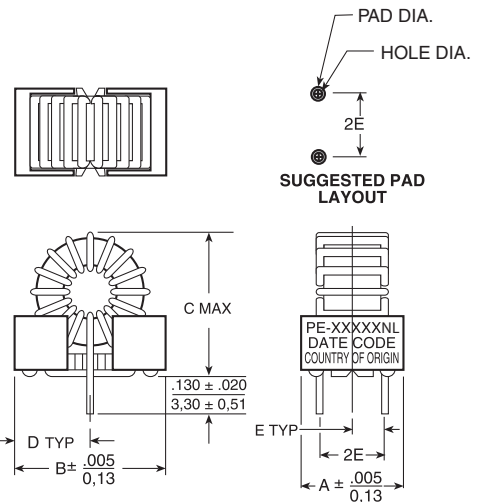


SUGGESTED PAD LAYOUT

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	.830	.950	.415	.150
	11,43	21,08	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	.700	1.30	1.40	.625	.250
	17,78	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

Einsteinstrasse 1
D-71083 Herrenberg
Germany

Tel: 49 7032 7806 0
Fax: 49 7032 7806 135

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.

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

Email: Info@DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.