THT/SMT Power Inductors

Toroid - Designed for National's 150kHz Simple Switcher™

- *Tested and recommended by National Semiconductor*
- *Base material meets flammability requirements of UL 94V-0*
- *Available in surface mount and through hole versions*

Electrical Specifications @ 25°C – Operating Temperature -40°C to +125°C

Pulse THT Part Number	Pulse SMT Part Number	National Part Number	Turns Ratio			Nominal DCR (Ω)	Package		
			Nominal Inductance (µH)	Rated Current (A_{DC})	Max ETOP (V-µSec)		Through Hole	Surface Mount	Lead Diameter
PE-53801NL *	PE-53801SNL	LM259X-L1	259	0.13	23.1	3.4	LP-25	LCI-20	-
PE-53802NL	PE-53802SNL	LM259X-L2	178	0.16	16.5	2.8	LP-25	LCI-20	-
PE-53803NL	PE-53803SNL	LM259X-L3	118	0.2	13.2	1.8	LP-25	LCI-20	-
PE-53804NL *	PE-53804SNL *	LM259X-L4	79	0.25	9.9	1.5	LP-25	LCI-20	-
PE-53805NL *	PE-53805SNL *	LM259X-L5	55	0.3	6.6	1.0	LP-25	LCI-20	-
PE-53806NL *	PE-53806SNL	LM259X-L6	39	0.34	6.6	.80	LP-25	LCI-20	-
PE-53807NL	PE-53807SNL *	LM259X-L7	26	0.45	6.6	.62	LP-25	LCI-20	-
PE-53808NL	PE-53808SNL	LM259X-L8	374	0.2	75.9	2.7	LP-30	LCI-30	-
PE-53809NL	PE-53809SNL	LM259X-L9	256	0.25	33	2.2	LP-30	LCI-30	-
PE-53810NL	PE-53810SNL	LM259X-L10	176	0.3	26.4	1.4	LP-30	LCI-30	-
PE-53811NL	PE-53811SNL	LM259X-L11	118	0.38	19.8	1.2	LP-30	LCI-30	-
PE-53812NL	PE-53812SNL	LM259X-L12	78	0.46	16.5	0.8	LP-30	LCI-30	-
PE-53813NL *	PE-53813SNL	LM259X-L13	55	0.56	13.2	0.5	LP-30	LCI-30	-
PE-53814NL	PE-53814SNL	LM259X-L14	39	0.68	9.9	0.3	LP-30	LCI-30	-
PE-53815NL *	PE-53815SNL	LM259X-L15	26	0.84	6.6	0.2	LP-30	LCI-30	-
PE-53816NL	PE-53816SNL	LM259X-L16	17	1.02	6.6	0.1	LP-30	LCI-30	-
PE-53817NL	PE-53817SNL	LM259X-L17	375	0.36	75.9	1.3	LP-37	LCI-37	-
PE-53818NL	PE-53818SNL	LM259X-L18	252	0.44	49.5	0.9	LP-37	LCI-37	-
PE-53819NL	PE-53819SNL	LM259X-L19	173	0.54	36.3	0.6	LP-37	LCI-37	-
PE-53820NL	PE-53820SNL	LM259X-L20	115	0.67	29.7	0.4	LP-37	LCI-37	-
PE-53821NL	PE-53821SNL	LM259X-L21	78	0.82	23.1	0.3	LP-37	LCI-37	-
PE-53822NL	PE-53822SNL	LM259X-L22	54	1.0	16.5	0.2	LP-37	LCI-37	-
PE-53823NL	PE-53823SNL	LM259X-L23	38	1.2	13.2	0.1	LP-37	LCI-37	-
PE-53824NL *	PE-53824SNL	LM259X-L24	26	1.48	9.9	0.1	LP-37	LCI-37	-
PE-53825NL	PE-53825SNL	LM259X-L25	18	1.81	9.9	0.06	LP-37	LCI-37	-

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Pulse A YAGEO Company

Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C									
Pulse THT Part Number	Pulse SMT Part Number	National Part Number	Turns Ratio			Nominal DCR (Ω)	Package		
			Nominal Inductance (µH)	Rated Current (A_{DC})	Max ETOP (V-µSec)		Through Hole	Surface Mount	Lead Diameter
PE-53827NL	**PE-53827SNL**	LM259X-L27	248	0.83	72.6	0.6	LP-44	LCI-44	-
PE-53828NL	**PE-53828SNL**	LM259X-L28	168	1.02	56.1	0.4	LP-44	LCI-44	-
PE-53829NL	**PE-53829SNL**	LM259X-L29	112	1.26	42.9	0.3	LP-44	LCI-44	-
PE-53830NL	**PE-53830SNL**	LM259X-L30	77	1.54	33	0.2	LP-44	LCI-44	-
PE-53831NL	**PE-53831SNL**	LM259X-L31	53	1.87	26.4	0.13	LP-44	LCI-44	-
PE-53932NL	**PE-53932SNL**	LM259X-L32	37	2.24	19.8	0.10	LP-44	LCI-44	-
PE-53933NL	**PE-53933SNL**	LM259X-L33	24	2.74	16.5	0.07	LP-44	LCI-44	-
PE-53934NL *	**PE-53934SNL**	LM259X-L34	17	3.0	13.2	0.05	KM-1.0	LCI-44	.023
PE-53935NL	**PE-53935SNL**	LM259X-L35	250	1.5	72.6	0.23	KM-3.0	HCI-68	.023
PE-54036NL	**PE-54036SNL**	LM259X-L36	168	1.81	75.9	0.18	KM-3.0	HCI-68	.023
PE-54037NL	**PE-54037SNL**	LM259X-L37	114	2.22	62.7	0.10	KM-3.0	HCI-68	.025
PE-54038NL	**PE-54038SNL**	LM259X-L38	77	2.7	52.8	0.09	KM-3.0	HCI-68	.025
PE-54039NL	**PE-54039SNL**	LM259X-L39	53	3.0	42.9	0.08	KM-3.0	HCI-68	.025
PE-54040NL	**PE-54040SNL**	LM259X-L40	38	3.0	29.7	0.05	KM-3.0	HCI-68	.028
PE-54041NL	**PE-54041SNL**	LM259X-L41	25	3.0	19.8	0.04	KM-2.0	HCI-50	.028
PE-54042NL	-	LM259X-L42	167	2.5	75.9	0.14	KM-4.0	-	.028
PE-54043NL	-	LM259X-L43	121	3.0	75.9	0.09	KM-4.0	-	.031
PE-54044NL	**PE-54044SNL**	LM259X-L44	77	3.0	59.4	0.08	KM-3.0	HCI-68	.025
PE-53900NL	-	LM259X-L	19	4.5	32[3]	0.02	KM-3.0	-	.035

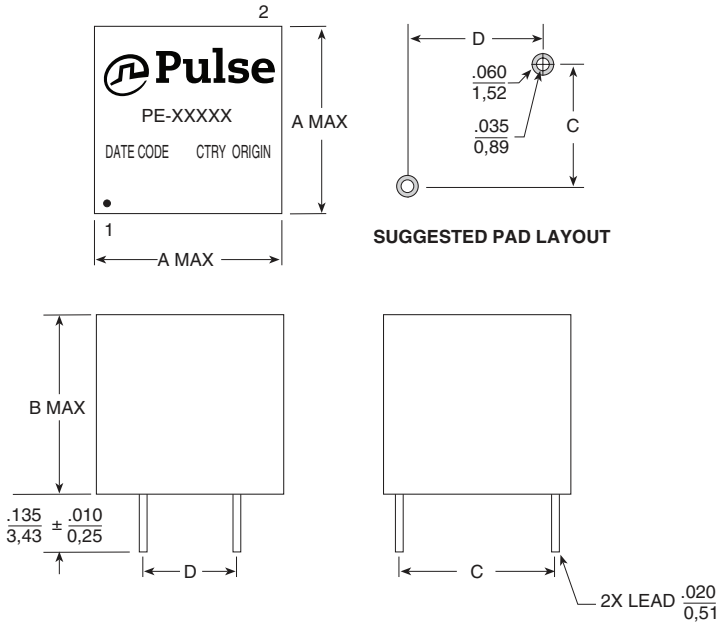
Notes:

1. Inductance values may vary ±20%.
2. ETop rated at 150kHz except where designated.
3. ETop rated at 100kHz.
4. SIMPLE SWITCHER™ is a trademark of National Semiconductor Corp.
5. For SMT parts, optional Tape & Reel packaging can be ordered by addin a "T" suffix to the part number (i.e. PE-53801SNL becomes PE-53801SNLT). Pulse complies to industry standard tape and reel specification EIA481.
6. The "**NL**" suffix indicates an RoHS-compliant part number. Non-NL suffixed parts are not necesssarily RoHS-compliant, but are electrically and mechanically equivalent to NL versions. If a part number does not have the "**NL**" suffix, but an RoHS compliant version is required, please contact Pulse for availability.
7. The temperature of the component (ambient plus temperature rise) must be within the stated operating temperature range.

* Contact Pulse for availability

Mechanical

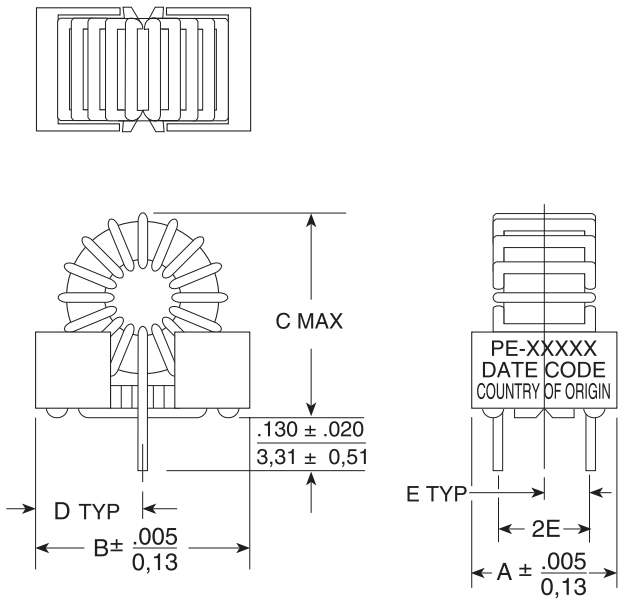
LP series



PKG	A	B	C	D
LP-25	.360 9,14	.310 7,87	.250 6,35	.250 6,35
LP-30	.400 10,16	.300 7,62	.300 7,62	.300 7,62
LP-37	.495 12,57	.375 9,52	.375 9,52	.375 9,52
LP-44	.635 16,13	.365 9,27	.500 12,7	.300 7,62

Mechanical

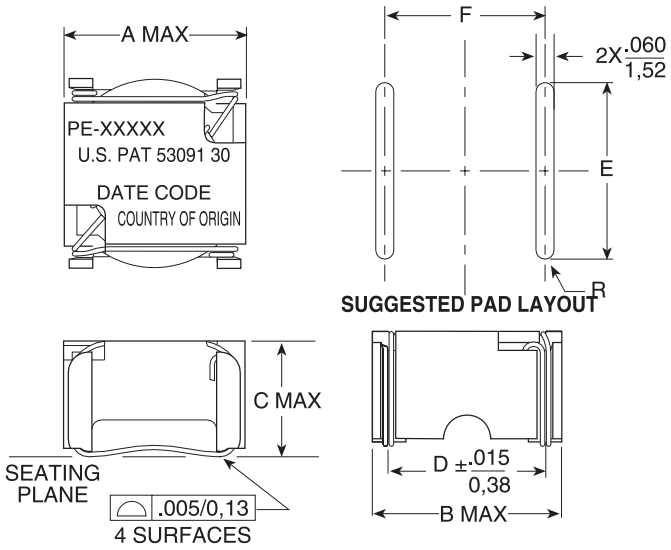
KM Series



PKG	A	B	C	D	E
KM-1.0	.340 8,64	.580 14,73	.650 16,51	.290 7,37	.110 2,79
KM-2.0	.450 11,43	.650 16,51	.700 17,73	.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

Mechanical

LCI Series

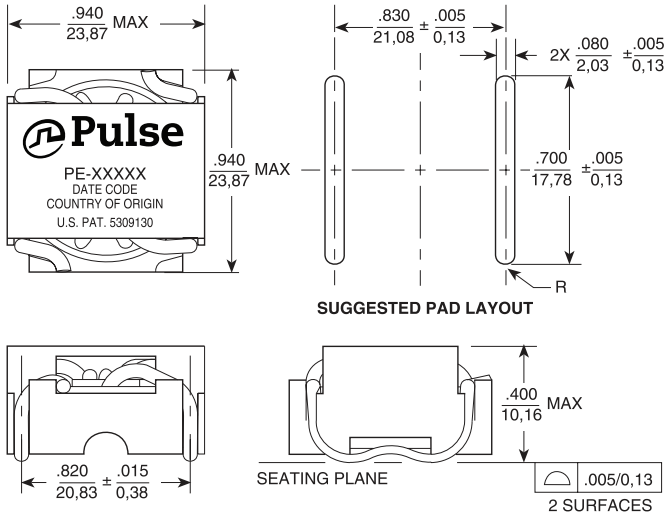


PKG	A	B	C	D	E	F
LCI-20	.340 8,64	.340 8,64	.270 6,86	.260 6,60	.300 7,62	.270 6,86
LCI-30	.450 11,05	.440 11,18	.360 9,14	.350 8,89	.400 10,16	.360 9,14
LCI-37	.565 14,35	.570 14,48	.360 9,14	.450 11,43	.520 13,21	.460 11,68
LCI-44	.600 15,24	.620 15,75	.390 9,91	.500 12,7	.550 13,97	.510 12,95
LCI-50	.670 17,02	.700 17,78	.390 9,91	.580 14,73	.620 15,75	.590 14,99

Notes:
Dimension "D" is measured across terminal blocks only.
Coil must clear seating plane by .010 0,25 MIN

Mechanical

HCI-68



Notes:
Coil must clear seating plane by .010 0,25 MIN

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

For More Information

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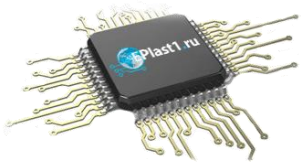
Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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