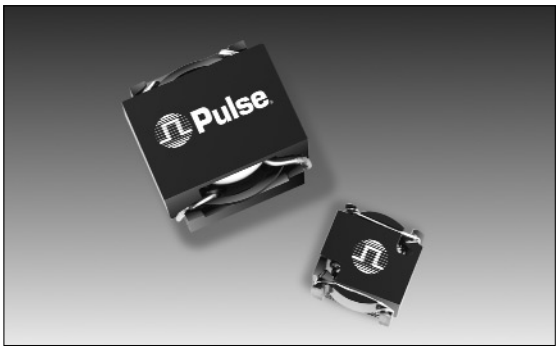
SURFACE MOUNT INDUCTORS
SELF-LEADED
Electrical Information



- Materials meet UL 94V-0 rating
- Fits in half inch high boards for use in laptop and notebook computers
- Frequency range of up to 1 MHz
- Patented, low profile, self-leaded design

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

Reference Values[1]				Control Values			Calculation Data		
Pulse Part Number	I_{DC}[2] (Amps)	L with DC L_{DC} (µH)	ET	Size Code	L w/o DC L_O (µH ± 20%)	DCR R_{DC} (mΩ MAX)	100 Gauss ET_{100} (V-µSec)	1 Amp DC H_I (Orsted)	DCR R_N (mΩ NOM)
PE-53600	1.40	6.20	1.33	LCI-20	7.0	70.0	0.94	21.9	60.3
PE-53601	1.00	17.6	2.40	LCI-20	22.7	125	1.68	39.3	109
PE-53602	1.40	29.7	4.60	LCI-30	35.3	166	4.12	23.2	141
PE-53604	1.30	58.1	7.83	LCI-37	73.0	290	7.09	28.8	233
PE-53606	0.94	114	10.0	LCI-30	167	380	8.97	50.5	330
PE-53608	0.90	192	15.7	LCI-37	292	560	14.2	57.7	472
PE-53611	0.72	383	23.5	LCI-37	672	862	21.3	86.5	750
PE-53613	0.74	645	36.5	LCI-44	1134	1250	37.2	84.4	1040
PE-53614	0.71	1070	54.4	LCI-50	1950	1700	56.9	95.7	1480
PE-53630	3.4	1.01	0.532	LCI-20	1.10	11.0	0.37	8.74	12.5
PE-53631	2.8	9.4	2.70	LCI-30	12.3	43.4	2.42	13.7	37.8
PE-53632	2.7	16.2	4.29	LCI-37	21.9	63.0	3.88	15.8	54.7
PE-53633	2.7	29.1	6.90	LCI-44	40.5	85.0	7.02	15.9	75.8
PE-53634	2.6	50.0	10.5	LCI-50	72.9	133	11.0	18.5	115
PE-53650	4.8	3.8	1.76	LCI-30	5.20	17.3	1.58	8.87	14.8
PE-53651	5.4	5.1	2.51	LCI-37	7.5	17.7	2.27	9.25	14.3
PE-53652	5.5	9.0	4.06	LCI-44	14.0	22.3	4.13	9.38	19.3
PE-53653	5.1	16.1	6.27	LCI-50	25.9	32.0	6.55	11.0	30.3
PE-53661	8.0	2.5	1.77	LCI-37	3.80	8.3	1.61	6.53	7.20
PE-53662	7.8	4.9	3.04	LCI-44	7.9	12.4	3.10	7.03	10.5
PE-53663	7.2	9.3	4.92	LCI-50	16.0	18.7	5.15	8.67	16.3
PE-53680	11.5	1.32	1.33	HCI-37	2.10	4.0	1.20	4.90	3.39
PE-53681	11.4	2.5	2.23	HCI-44	4.20	5.4	2.27	5.16	4.64
PE-53682	10.4	4.7	3.58	HCI-50	8.4	8.3	3.75	6.30	7.18
PE-53683	10.9	9.4	6.84	HCI-68	17.6	12.3	7.93	6.24	10.7
PE-53690	14.3	0.81	1.035	HCI-37	1.25	2.5	0.94	381	2.16
PE-53691	13.9	1.68	1.83	HCI-44*	2.80	3.6	1.86	4.22	3.16
PE-53692	12.4	3.5	3.13	HCI-50*	6.5	6.6	3.28	5.52	5.75
PE-53700	15.4	5.2	5.21	HCI-68*	10.5	6.2	6.04	4.75	5.30

NOTES:

1. Reference values are for an inductor with a 55°C temperature rise. The core loss is 10% of the copper loss at the ET listed and 500 KHz.
2. Core does not saturate abruptly. The ET and DC current are limited by the desired inductance and temperature rise.
3. The temperature rise is directly proportional to the total watts loss (I^2R plus core loss). The core loss (mW/cc) equals $9.07 \times 10^{-10} f^{1.26} B^{2.11}$. B is the operating flux density (Gauss) due to ripple voltage and f is the operating frequency (Hertz) of the ripple current.
4. Optional 13" Tape & Reel packaging can be ordered by adding a "T" suffix to the part number, (i.e. PE-53600**T**).

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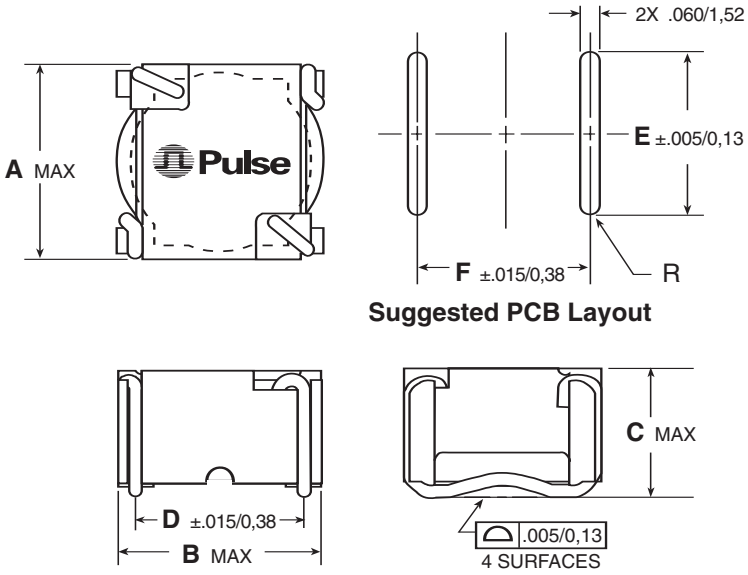
Mechanical Information

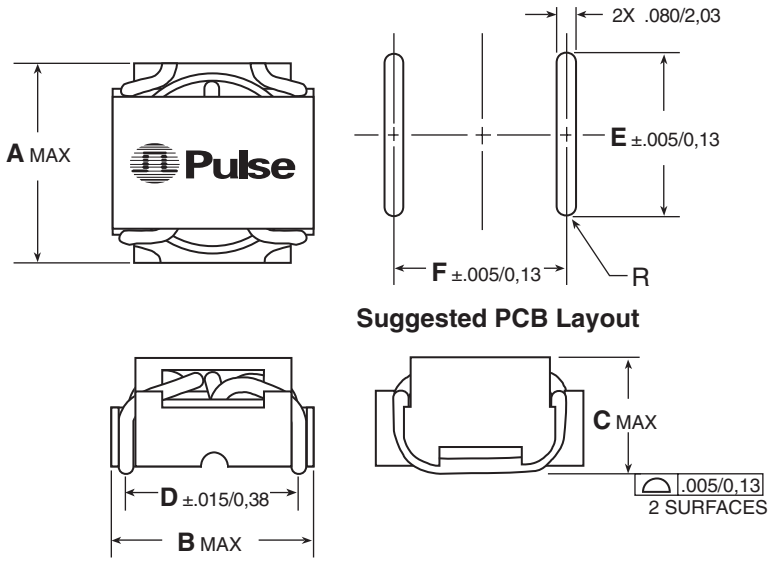
Mechanicals

Low Current Inductors (LCI)



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	.435 11,05	.440 11,18	.360 9,14	.350 8,89	.400 10,16	.360 9,14
LCI-37	.560 14,22	.565 14,35	.360 9,14	.450 11,43	.520 13,21	.460 11,68
LCI-44	.590 14,99	.615 15,62	.390 9,91	.500 12,70	.550 13,97	.500 12,70
LCI-50	.670 17,02	.700 17,78	.390 9,91	.580 14,73	.620 15,75	.590 14,99

High Current Inductors (HCI)



PKG	A	B	C	D	E	F
HCI-37	.615 15,62	.600 15,24	.370 9,40	.500 12,70	.440 11,18	.500 12,70
HCI-44	.665 16,89	.665 16,89	.390* 9,91	.560 14,22	.490 12,45	.570 14,48
HCI-50	.740 18,80	.740 18,80	.390* 9,91	.630 16,00	.560 14,22	.640 16,26
HCI-68	.940 23,88	.940 23,88	.390* 9,91	.820 20,83	.700 17,78	.830 21,08

* Dimension "C" is .400/10,16 for the marked models because of heavier wire gage.

Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25