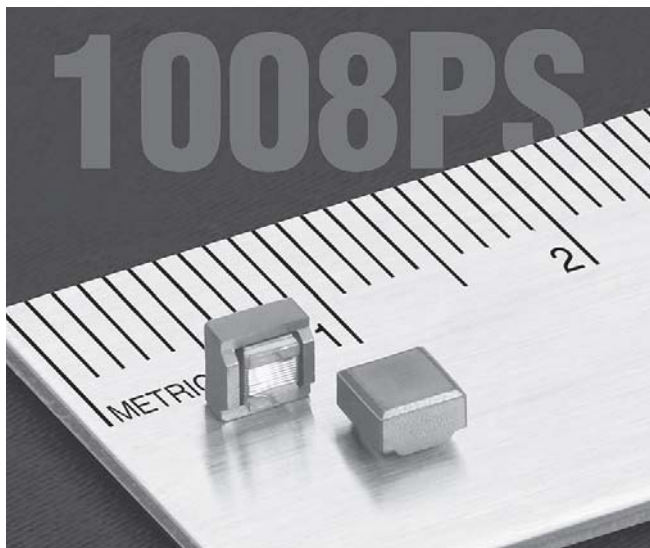




1008PS Inductors for xDSL Filters



Coilcraft's new 1008PS Series is ideal for use in a variety of filters, including the data separation filters used in VDSL and ISDN/ADSL implementations.

They measure just 2.74 mm high and have very low DC resistance to reduce insertion loss. The specially designed ferrite cover provides magnetic shielding and the best possible surface for pick and place handling.

Coilcraft offers reference designs for various xDSL filters using these and other surface mount components. We can also provide several complete low pass and band pass filter modules in space-saving SIP configurations.

Coilcraft **Designer's Kit C341** contains six samples each of the standard parts shown. To order, contact Coilcraft or visit <http://order.coilcraft.com>.

Part number ¹	$L \pm 10\%$ ² (μH)	Q min ³ at 1 MHz	DCR ⁴ max (Ohms)	SRF ⁵ typ (MHz)	Isat ⁶ (A)	I _{rms} ⁷ (A)
1008PS-102KL_	1.0	35	0.05	344	3.0	2.00
1008PS-152KL_	1.5	35	0.06	260	2.8	2.00
1008PS-182KL_	1.8	35	0.09	225	2.1	1.90
1008PS-272KL_	2.7	38	0.14	185	1.3	1.60
1008PS-392KL_	3.9	38	0.26	175	1.2	1.20
1008PS-472KL_	4.7	38	0.35	160	1.0	1.10
1008PS-562KL_	5.6	38	0.36	150	1.0	0.90
1008PS-682KL_	6.8	38	0.58	120	0.84	0.80
1008PS-103KL_	10	38	0.92	105	0.78	0.72
1008PS-153KL_	15	38	1.15	35	0.70	0.60
1008PS-223KL_	22	40	1.40	26	0.65	0.55
1008PS-333KL_	33	45	1.61	20	0.51	0.50
1008PS-393KL_	39	45	1.85	16	0.45	0.47
1008PS-473KL_	47	45	2.5	19	0.40	0.42
1008PS-683KL_	68	45	3.8	12	0.31	0.32
1008PS-823KL_	82	45	4.3	9.0	0.30	0.30
1008PS-104KL_	100	45	5.8	7.0	0.30	0.30
1008PS-124KL_	120	50	6.3	7.0	0.25	0.28
1008PS-154KL_	150	50	7.5	5.8	0.22	0.26
1008PS-224KL_	220	55	10.0	10.0	0.22	0.21
1008PS-334KL_	330	55	11.5	3.8	0.20	0.19
1008PS-474KL_	470	55	16.3	3.1	0.16	0.18
1008PS-564KL_	560	55	18.1	2.8	0.13	0.15
1008PS-684KL_	680	55	24.0	2.5	0.12	0.14
1008PS-824KL_	820	45	26.0	1.5	0.10	0.12
1008PS-105KL_	1000	45	29.0	2.0	0.10	0.11

1. When ordering, please specify **packaging** code:

1008PS-105KL_C

Packaging: **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (750 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (2500 parts per full reel).

- Inductance measured at 100 kHz, 0.1 V_{rms}, using Coilcraft SMD-A fixture in Agilent/HP 4263B impedance analyzer.
- Q measured on Agilent/HP 4291 with Agilent/HP 16193 test fixture.
- DCR measured on micro-ohmmeter and Coilcraft CCF840 test fixture.
- SRF measured using Agilent/HP 8753D network analyzer and Coilcraft SMD-D test fixture.
- DC current at which the inductance drops 10% (typ) from its value without current.
- Average current for a 40°C rise above 25°C ambient.
- Operating temperature range -40°C to +85°C.
- Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data.

COILCRAFT ACCURATE
PRECISION REPEATABLE
MEASUREMENTS
SEE INDEX **TEST FIXTURES**

Coilcraft[®]

Specifications subject to change without notice.

Please check our website for latest information. Document 240-1 Revised 03/14/05

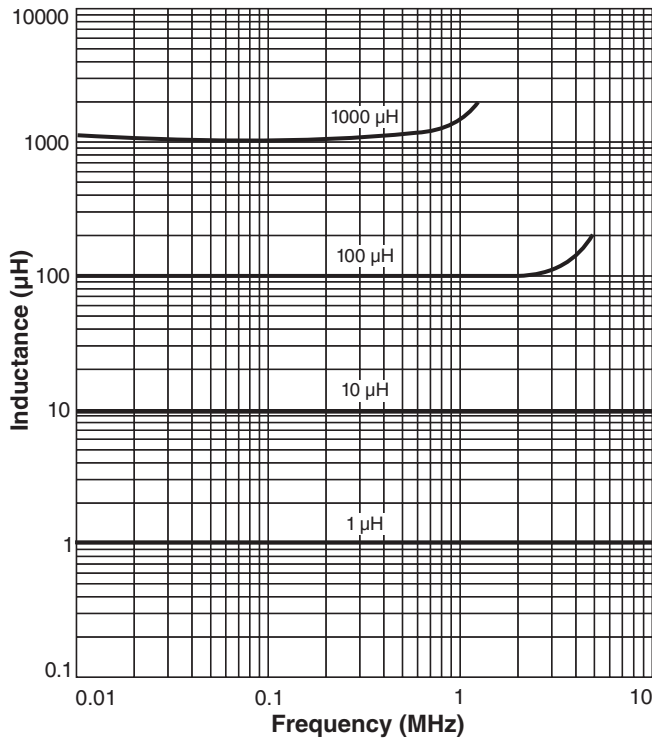
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail info@coilcraft.com Web <http://www.coilcraft.com>

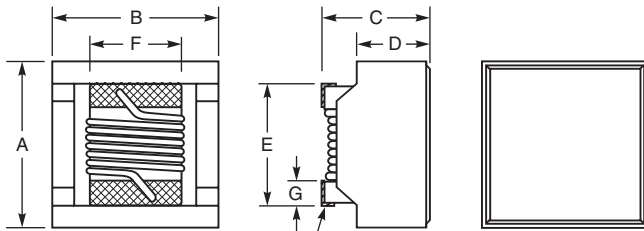
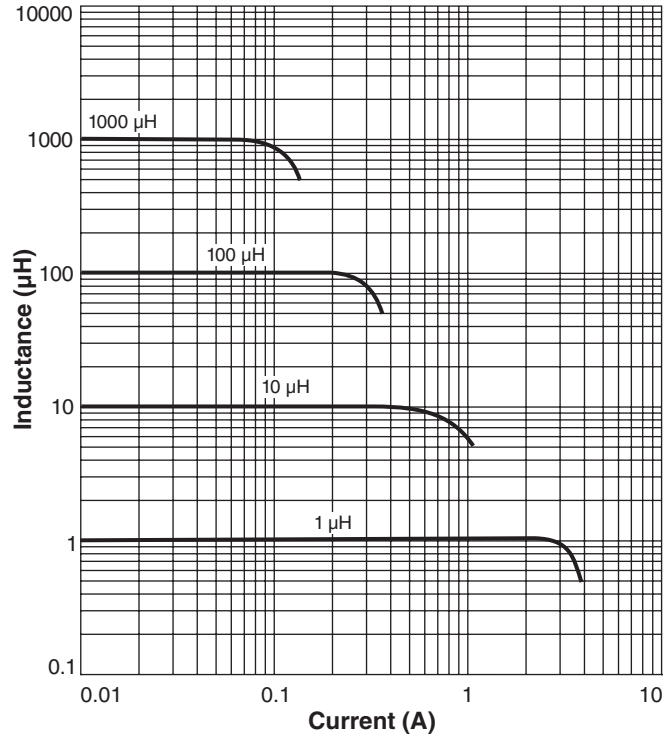


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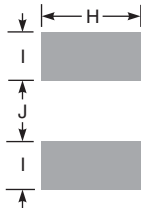
Typical L vs Frequency



Typical L vs Current



Terminal wraparound:
approx 0.015/0,38 both ends



Recommended Land Pattern

A max	B max	C max	D max	E max	F max	G max	H	I	J
0.150	0.150	0.108	0.070	0.100	0.083	0.020	0.100	0.040	0.050
3,81	3,81	2,74	1,78	2,54	2,11	0,51	2,54	1,02	1,27

Weight: 122 – 132 mg
Terminations: Silver-palladium-platinum
Tape and reel: 750/7" reel; 2500/13" reel 12 mm tape width
 For packaging data see Tape and Reel Specifications section.



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 Please check our website for latest information. Document 240-2 Revised 03/14/05

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