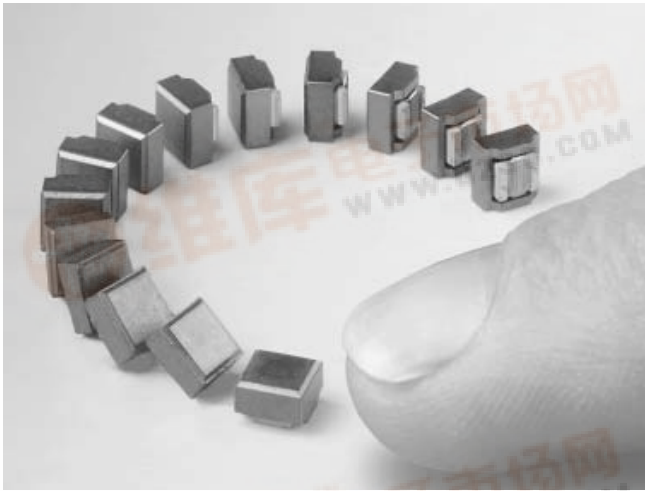


1008PS Inductors for xDSL Filters



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 C141** 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 (μ H)	Q min ³ @ 1 MHz	DCR ⁴ max (Ohms)	SRF ⁵ typ (MHz)	Isat ⁶ (A)	Irms ⁷ (A)
1008PS-102K	1.0	35	0.05	344	3.0	2.00
1008PS-152K	1.5	35	0.06	260	2.8	2.00
1008PS-182K	1.8	35	0.09	225	2.1	1.90
1008PS-272K	2.7	38	0.14	185	1.3	1.60
1008PS-392K	3.9	38	0.26	175	1.2	1.20
1008PS-472K	4.7	38	0.35	160	1.0	1.10
1008PS-562K	5.6	38	0.36	150	1.0	0.90
1008PS-682K	6.8	38	0.58	120	0.84	0.80
1008PS-103K	10	38	0.92	105	0.78	0.72
1008PS-153K	15	38	1.15	35	0.70	0.60
1008PS-223K	22	40	1.40	26	0.65	0.55
1008PS-333K	33	45	1.61	20	0.51	0.50
1008PS-393K	39	45	1.85	16	0.45	0.47
1008PS-473K	47	45	2.5	19	0.40	0.42
1008PS-683K	68	45	3.8	12	0.31	0.32
1008PS-823K	82	45	4.3	9.0	0.30	0.30
1008PS-104K	100	45	5.8	7.0	0.30	0.30
1008PS-124K	120	50	6.3	7.0	0.25	0.28
1008PS-154K	150	50	7.5	5.8	0.22	0.26
1008PS-224K	220	55	10.0	10.0	0.22	0.21
1008PS-334K	330	55	11.5	3.8	0.20	0.19
1008PS-474K	470	55	16.3	3.1	0.16	0.18
1008PS-564K	560	55	18.1	2.8	0.13	0.15
1008PS-684K	680	55	24.0	2.5	0.12	0.14
1008PS-824K	820	45	26.0	1.5	0.10	0.12
1008PS-105K	1000	45	29.0	2.0	0.10	0.11

1. Specify packaging code:

1008PS-105K 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).

2. Inductance measured at 100 kHz, 0.1 Vrms, using Coilcraft SMD-A fixture in Agilent/HP 4263B impedance analyzer.

3. Q measured on Agilent/HP 4291 with Agilent/HP 16193 test fixture.

4. DCR measured on micro-ohmmeter and Coilcraft CCF840 test fixture.

5. SRF measured using Agilent/HP 8753D network analyzer and Coilcraft SMD-D test fixture.

6. DC current at which the inductance drops 10% (typ) from its value without current.

7. Average current for a 40°C rise above 25°C ambient.

8. Operating temperature range -40°C to +85°C.

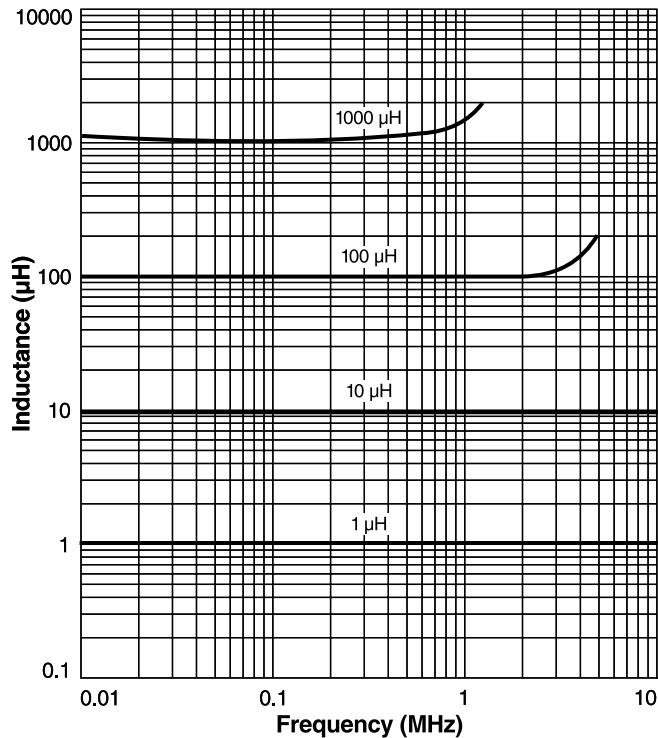
9. Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data.

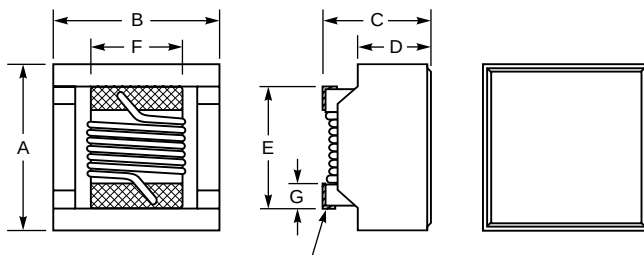
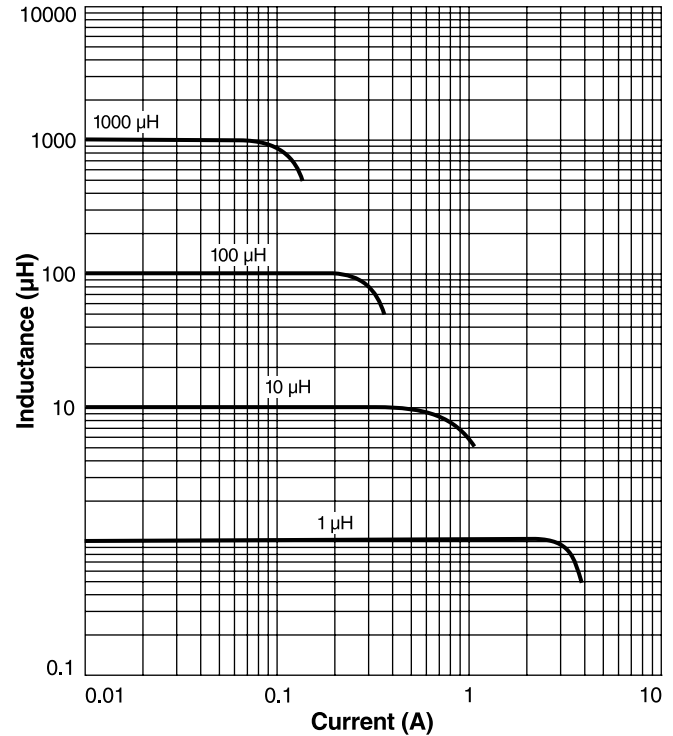
COILCRAFT ACCURATE
PRECISION REPEATABLE
MEASUREMENTS
SEE INDEX **TEST FIXTURES**

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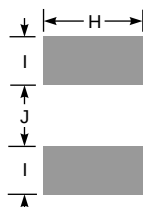
Typical L vs Frequency



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

Parts/reel: 7" 750; 13" 2500 Tape width: 12 mm
For packaging data see Tape and Reel Specifications section.

Coilcraft[®]