



DO3316 Inductors for xDSL Filters



These low cost, high inductance inductors are ideal for use in a variety of filters, including the data separation filters used in ADSL, VDSL and ISDN/ADSL implementations.

Their wirewound design and ferrite core provide high Q factors, low DCR and high current handling.

Coilcraft offers a library of 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 C378** contains three samples each of the parts shown. To order, contact Coilcraft or visit <http://order.coilcraft.com>.

SPICE models ON OUR WEB SITE OR CD

Part number ¹	L ±20% ² (μH)	DCR max (Ohms)	SRF typ ³ (MHz)	Isat ⁴ (A)	Irms ⁵ (A)
DO3316P-102ML_	1.0	0.009	100	9.0	6.8
DO3316P-152ML_	1.5	0.010	90	8.0	6.4
DO3316P-222ML_	2.2	0.012	80	7.0	6.1
DO3316P-332ML_	3.3	0.015	65	6.4	5.4
DO3316P-472ML_	4.7	0.018	45	5.4	4.8
DO3316P-682ML_	6.8	0.027	38	4.6	4.4
DO3316P-103ML_	10	0.038	30	3.8	3.9
DO3316P-153ML_	15	0.046	27	3.0	3.1
DO3316P-223ML_	22	0.085	19	2.6	2.7
DO3316P-333ML_	33	0.10	15	2.0	2.1
DO3316P-473ML_	47	0.14	12	1.6	1.8
DO3316P-683ML_	68	0.20	10	1.4	1.5
DO3316P-104ML_	100	0.28	9	1.2	1.3
DO3316P-154ML_	150	0.40	6	1.0	1.0
DO3316P-224ML_	220	0.61	5	0.8	0.8
DO3316P-334ML_	330	1.02	4.5	0.6	0.6
DO3316P-474ML_	470	1.27	3.5	0.5	0.5
DO3316P-684ML_	680	2.02	2.5	0.4	0.4
DO3316P-105ML_	1000	3.00	2.0	0.3	0.3

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

DO3316P-105MLD

Packaging: **D** = 13" machine-ready reel. EIA-481 embossed plastic tape (1000 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 D instead.

2. Tested at 100 kHz, 0.1 Vrms, 0 Adc.

3. SRF >13 MHz measured using Agilent/HP 8753D network analyzer; <13 MHz using Agilent/HP 4192A.

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

5. Average current for 40°C temperature rise from 25°C.

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

7. Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data.

See Color Coding section for color dot part marking data.

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Specifications subject to change without notice.

Please check our website for latest information.

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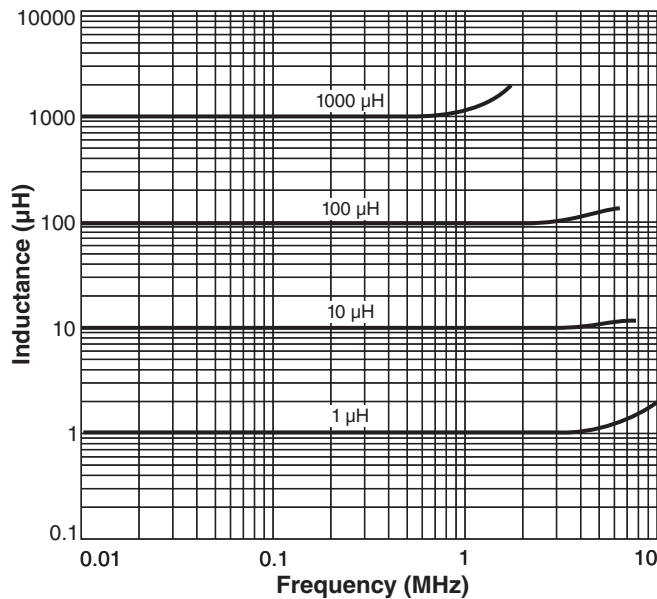
1102 Silver Lake Road Cary, Illinois 60013 **Phone** 847/639-6400 **Fax** 847/639-1469

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

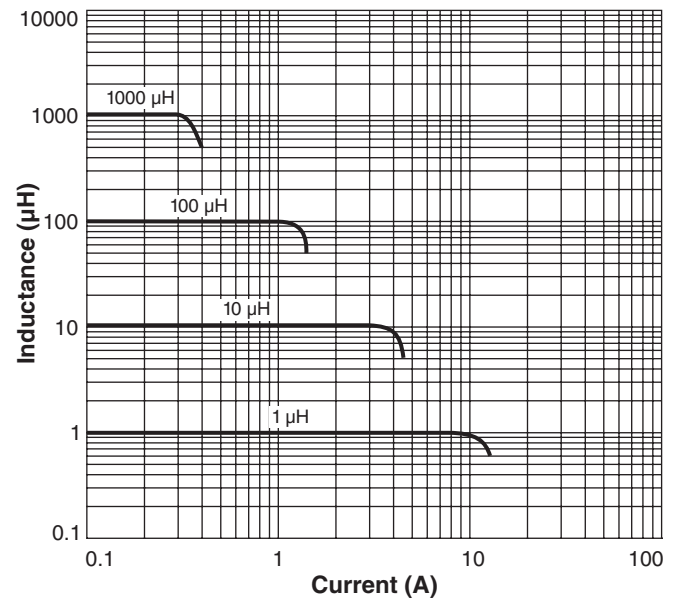


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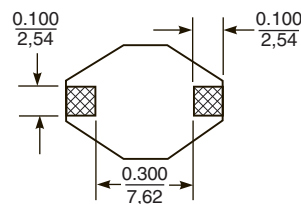
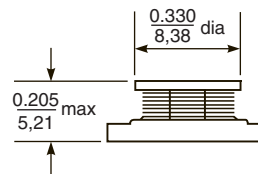
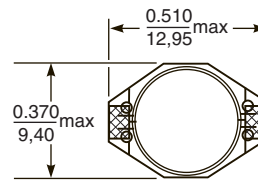
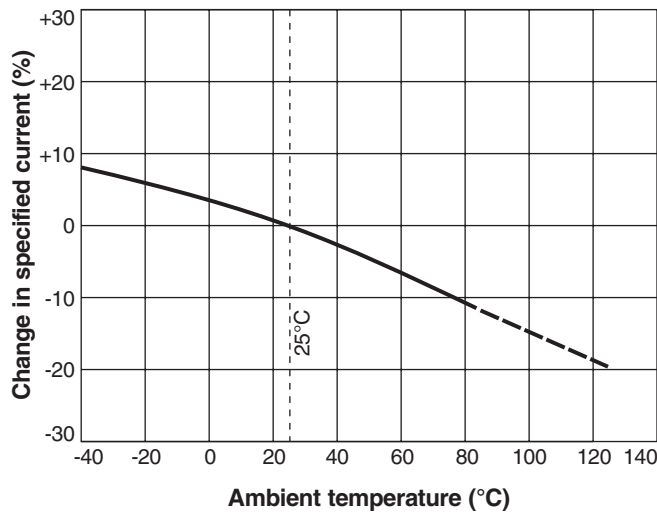
Typical L vs Frequency



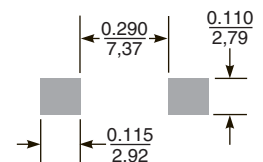
Typical L vs Current



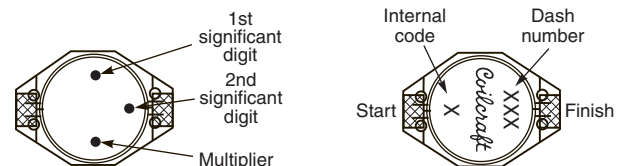
Current Derating



Recommended Land Pattern



Part Marking



Weight: 0.92 – 1.23 g

Terminations: Nickel/gold over phos bronze

Tape and reel: 1000/13" reel 24 mm tape width

For packaging data see Tape and Reel Specifications section.

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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>