

# SMT Power Inductors – DO1608 Series

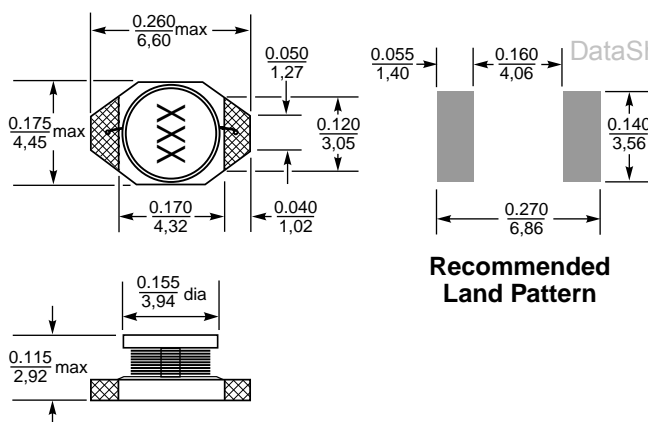


The DO1608 Series has a footprint of only 0.26" × 0.175" (6,6 mm × 4,5 mm). Their high energy storage and very low resistance make them the ideal inductors for DC-DC conversion in notebook computers, PDAs, step-up or step-down converters, flash memory programmers, etc.

For reliable surface mounting, we've designed the DO Series with a flat top and robust temperature deflection to prevent damage during solder reflow.

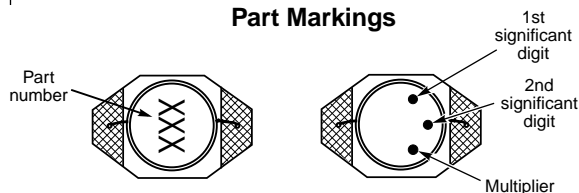
In addition to the standard versions shown here, custom inductors are available to meet your exact requirements. Coilcraft **Designer's Kit C105** contains three samples each of the standard parts shown as well as all standard values from the DO3316 Series. To order, please contact Coilcraft or visit <http://order.coilcraft.com>.

**SPICE models** ON OUR WEB SITE OR CD



**Recommended Land Pattern**

**Part Markings**



Parts/reel: 7" 750; 13" 2500 Tape width: 12 mm

For packaging data see Tape and Reel Specifications section.

Part number	L ± 20% <sup>1</sup> (μH)	DCR max (Ohms)	SRF typ (MHz)	Isat <sup>2</sup> (A)	Irms <sup>3</sup> (A)
DO1608C-102	1.0	0.05	130	2.90	2.9
DO1608C-152	1.5	0.05	115	2.60	2.8
DO1608C-222	2.2	0.07	90	2.30	2.4
DO1608C-332	3.3	0.08	70	2.00	2.0
DO1608C-472	4.7	0.09	50	1.50	1.5
DO1608C-682	6.8	0.13	45	1.20	1.4
DO1608C-103	10	0.16	35	1.10	1.1
DO1608C-153	15	0.23	30	0.90	1.2
DO1608C-223	22	0.37	20	0.70	0.8
DO1608C-333	33	0.51	15	0.58	0.6
DO1608C-473	47	0.64	14	0.50	0.5
DO1608C-683	68	0.86	11	0.40	0.4
DO1608C-104	100	1.27	9	0.31	0.3
DO1608C-154	150	2.00	6	0.27	0.25
DO1608C-224	220	3.11	5.5	0.22	0.2
DO1608C-334	330	3.80	5	0.18	0.16
DO1608C-474	470	5.06	4	0.16	0.15
DO1608C-684	680	9.20	3	0.14	0.12
DO1608C-105	1000	13.8	2	0.10	0.07

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

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

3. Average current for 15°C temperature rise from 25°C.

4. Operating temperature range –40°C to +85°C.

5. Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data.

See Color Coding section for part marking data.

**Coilcraft**<sup>®</sup>

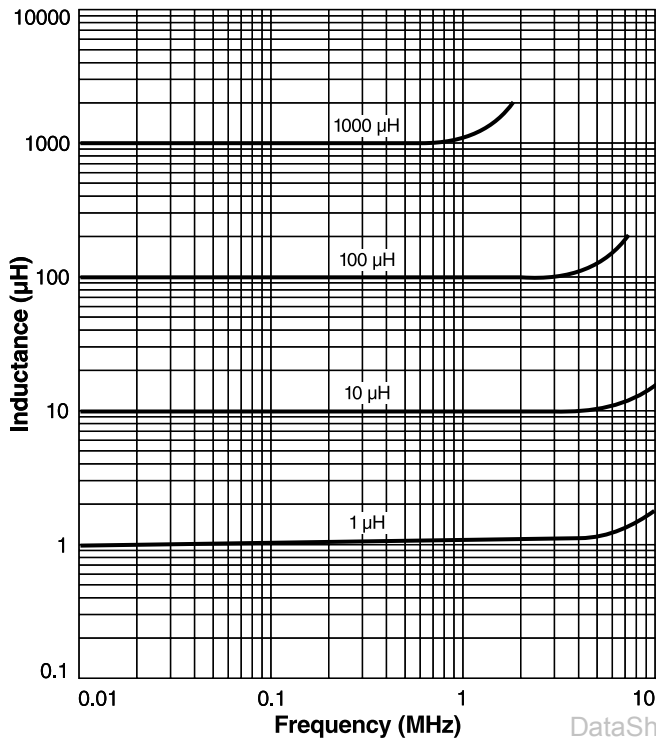
Specifications subject to change without notice. Document 177-1 Revised 06/18/03

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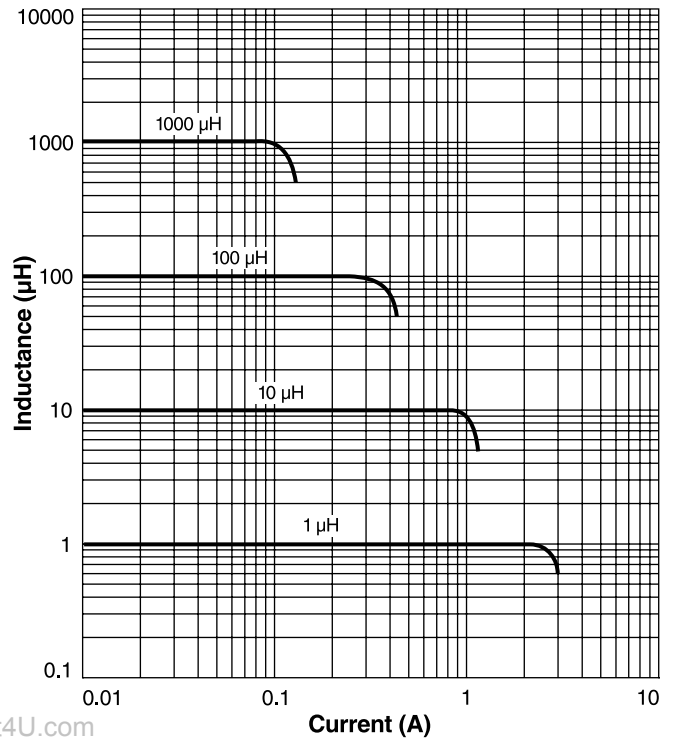
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## Typical L vs Frequency



## Typical L vs Current



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