



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.

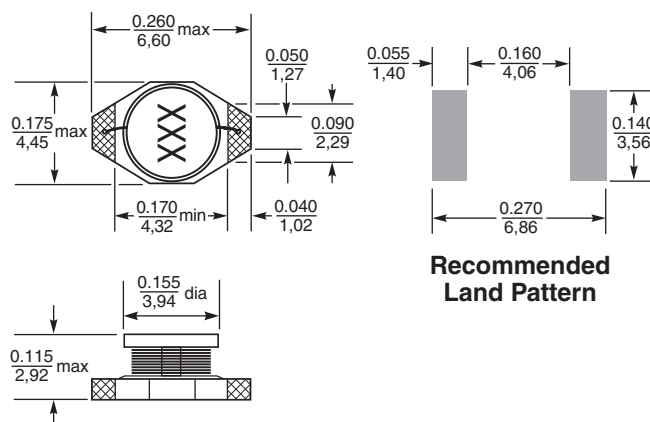
For reliable surface mounting, we've designed the DO Series with a flat top and robust temperature deflection to prevent damage during solder reflow.

In addition to the standard versions shown here, custom inductors are available to meet your exact requirements.

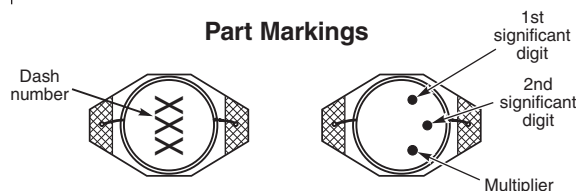
SPICE models ON OUR WEB SITE OR CD

Part number	L ± 20% ¹ (μH)	DCR max (Ohms)	SRF typ (MHz)	Isat ² (A)	Irms ³ (A)
DO1608C-102	1.0	0.05	130	2.90	2.9
DO1608C-152	1.5	0.06	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	0.20
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.



Part Markings



Weight: 128 – 164 mg
Terminations: Nickel/gold over moly-manganese
Tape and reel: 750/7" reel; 2500/13" reel 12 mm tape width
 For packaging data see Tape and Reel Specifications section.

Coilcraft[®]

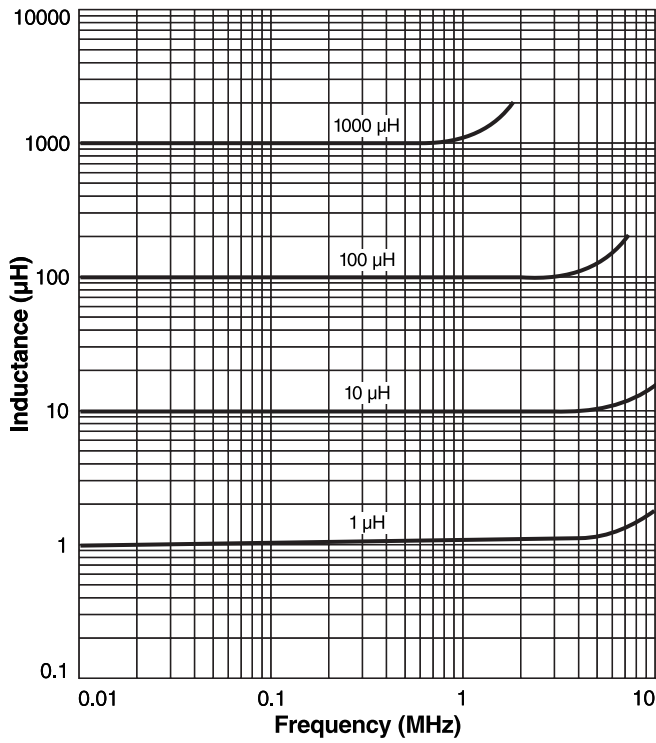
Specifications subject to change without notice. Document 177 Revised 12/10/04

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>

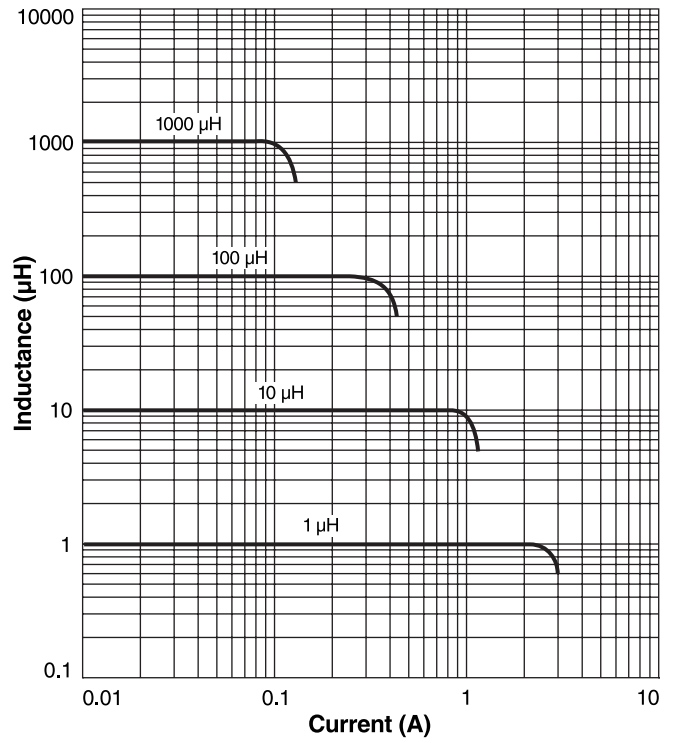


SMT Power Inductors – DO1608 Series

Typical L vs Frequency



Typical L vs Current



Specifications subject to change without notice. Document 177-2 Revised 10/31/03

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>