

SMT Power Inductors – DO1608 Series

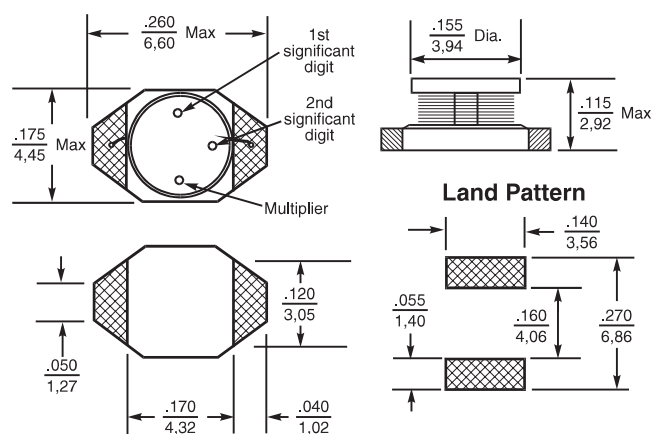


With a footprint of only .26 x .175 (6,6 x 4,5), the DO1608 Series are our smallest power inductors. Their high energy storage and very low resistance make them the ideal inductors for DC-DC conversion in notebook computers, PDAs, step-up or step-down converters, flash memory programmers, etc.

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 3 samples each of the standard parts shown as well as all standard values from the DO3316 Series. To order, contact Coilcraft or visit <http://order.coilcraft.com>.

PSPICE models SEE DOC 209



Parts/reel: 7" 750; 13" 2,500 Tape width: 12 mm
For packaging data see "Tape and Reel Specifications" (Document 173)

Part Number	Inductance ¹ ($\mu\text{H} \pm 20\%$)	DCR max. (Ω)	SRF typ (MHz)	Isat ² (A)	Irms ³ (A rms)
DO1608C-102	1.0	.05	130	2.90	2.9
DO1608C-152	1.5	.05	115	2.60	2.8
DO1608C-222	2.2	.07	90	2.30	2.4
DO1608C-332	3.3	.08	70	2.00	2.0
DO1608C-472	4.7	.09	50	1.50	1.5
DO1608C-682	6.8	.13	45	1.20	1.4
DO1608C-103	10	.16	35	1.10	1.1
DO1608C-153	15	.23	30	0.90	1.2
DO1608C-223	22	.37	20	0.70	0.8
DO1608C-333	33	.51	15	0.58	0.6
DO1608C-473	47	.64	14	0.50	0.5
DO1608C-683	68	.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

For environmental data see "Product Specifications" (Document 164)

1. Tested at 100 kHz, 0.1 Vrms.
2. Inductance drop = 10% typ. at rated Isat.
3. $\Delta T = 15^\circ\text{C}$ rise typ. at I rms.
4. Operating temperature range -40°C to $+85^\circ\text{C}$.
5. Electrical specifications at 25°C .

Coilcraft

Specifications subject to change without notice. Document 177 Revised 5/19/99

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469
E-mail info@coilcraft.com Data by Fax 800/651-6974 Web <http://www.coilcraft.com>