



# SMT Power Inductors – DO3308 Series

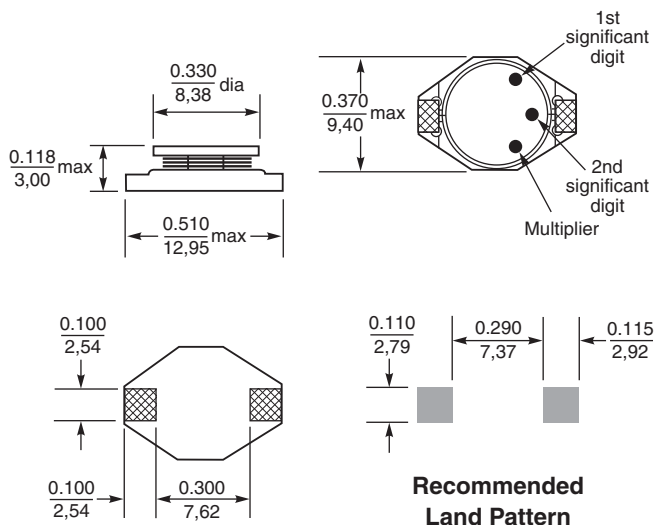


With a height of only 0.118" (3,0 mm), Coilcraft's DO3308 Series of surface mount power inductors is ideal for PDA, palmtop and other handheld applications.

Available in 13 versions with inductance ratings from 10 to 1000  $\mu\text{H}$ , these parts can handle currents up to 2 Amps. They have a  $0.370 \times 0.510$  (9,4  $\times$  13,0) base and a flat top for reliable pick and place handling. In addition to the standard versions shown here, custom inductors are available to meet your exact requirements.

Coilcraft **Designer's Kit C109** contains three samples each of the standard parts shown. To order, contact Coilcraft or visit <http://order.coilcraft.com>.

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



**Recommended Land Pattern**

**Weight:** 594 – 640 mg

**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.

Part number <sup>1</sup>	L $\pm 20\%$ <sup>2</sup> ( $\mu\text{H}$ )	DCR max (Ohms)	SRF typ (MHz)	Isat <sup>3</sup> (A)	Irms <sup>4</sup> (A)
DO3308P-103	10	0.085	35	2.4	2.0
DO3308P-153	15	0.12	33	2.0	1.5
DO3308P-223	22	0.18	25	1.6	1.3
DO3308P-333	33	0.25	19	1.4	1.1
DO3308P-473	47	0.32	14	1.0	0.8
DO3308P-683	68	0.54	12	0.9	0.7
DO3308P-104	100	0.69	10	0.7	0.6
DO3308P-154	150	0.94	8.0	0.6	0.5
DO3308P-224	220	1.60	6.0	0.5	0.4
DO3308P-334	330	2.15	5.0	0.4	0.3
DO3308P-474	470	3.30	4.0	0.3	0.2
DO3308P-684	680	4.40	3.0	0.2	0.1
DO3308P-105	1000	7.00	2.5	0.1	0.05

- Part number on reel label may have a B suffix to indicate that the reel is not machine ready.
  - Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.
  - DC current at which inductance drops 10% (typ) from its value without current.
  - Average current for a 30°C rise above 25°C ambient.
  - Operating temperature range -40°C to +85°C.
  - 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.

Please check our website for latest information.

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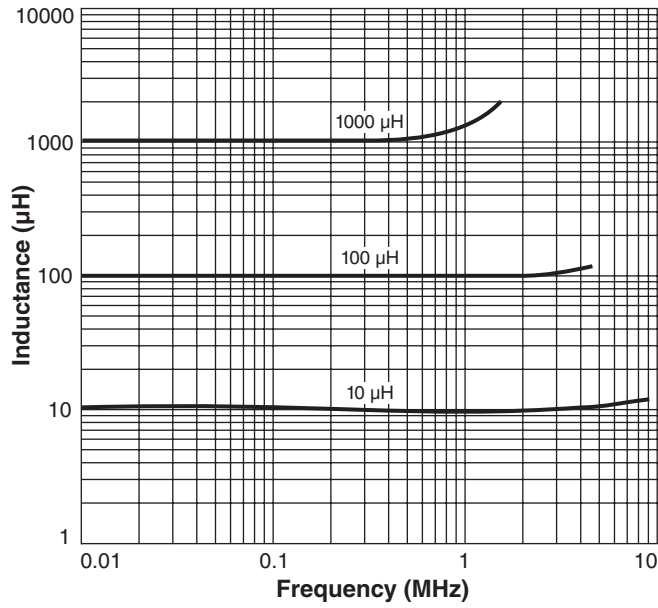
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>

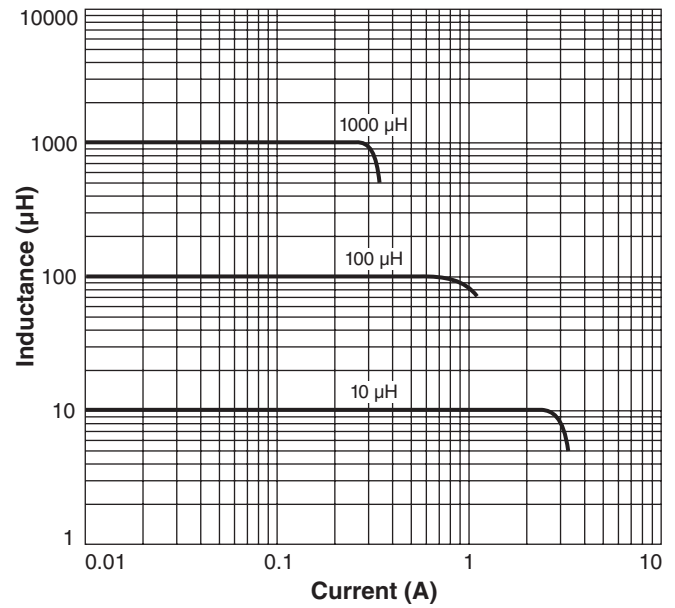


# SMT Power Inductors – DO3308 Series

## Typical L vs Frequency



## Typical L vs Current



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 Please check our website for latest information. Document 170-2 Revised 10/31/03

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469  
 E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>