

## SMT Power Inductors – DO5022 Series



This series of surface mount power inductors is designed for the higher current requirements of notebook computers and other portable and handheld devices.

A 1 µH inductor is rated at 8.6 Arms with a saturation current of 20 Amps. Exceptionally low dc resistance (as low as 0.009 Ohm) keeps power losses to a minimum.

The DO5022 Series was designed specifically for surface mounting. It has a flat top for reliable pick-and place operations and features robust temperature deflection.

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

Coilcraft Designer's Kit C111 contains three samples each of the standard parts shown. To order, contact Coilcraft or visit http://order.coilcraft.com.

0.280 max

0.100

2,54

Part Marking

Start

Internal

code

7,11

SPICE models ON OUR WEB SITE OR CD

0.110

2.79

Finish

Dash

number

0 4 9 0

12.45

0.115

2.92

Recommended Land Pattern

Part	L ±20% <sup>1</sup>	DCR max	SRF typ <sup>2</sup>	Isat <sup>3</sup>	Irms <sup>4</sup>	0.600 mou KV
number	(µH)	(Ohms)	(MHz)	(A)	(A)	$\frac{0.600}{15,24}$ max
DO5022P-102	1.0	0.009	80	20	8.6	
DO5022P-222	2.2	0.014	80	16	7.1	
DO5022P-332	3.3	0.018	60	14	6.2	
DO5022P-562	5.6	0.020	40	12	5.3	<ul> <li></li></ul>

1. Inductance tested at 100 kHz. 0.1 Vrms. 0

- 2. SRF >13 MHz measured using Agilent/HP 8753D network analyzer; <13 MHz using Agilent/HP 4192A.
- 3. DC current at which inductance drops 10% (typ) from its value without current.
- 4. Average current for 40°C temperature rise from 25°C ambient.
- 5. Operating temperature range -40°C to +85°C.
- 6. Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data. See Color Coding section for part marking data.

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Specifications subject to change without notice. Document 172 Revised 12/10/04

For packaging data see Tape and Reel Specifications section.

1st

significant

digit

2nd

sianificant digit

Multiplier

Nickel/gold over phos bronze

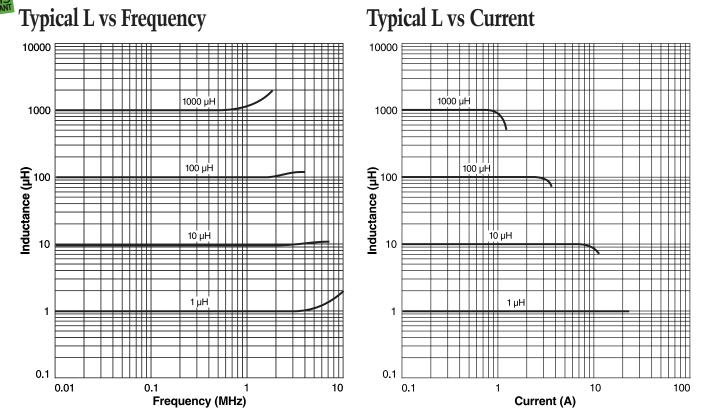
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469 E-mail info@coilcraft.com Web http://www.coilcraft.com

2.8 - 3.9 a

Tape and reel: 250/13" reel 32 mm tape width

Weight:

Terminations:



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