



# SMT Power Inductors - DO3316H Series



The DO3316H series has been specially designed for high current, low voltage DC-DC converter applications.

This simple, rugged design provides current ratings normally available only in much larger packages — up to 17 Arms for a 0.12  $\mu$ H part! With its soldered self-leaded construction, the DO3316H achieves very low DCR values and excellent solderability. In addition to the standard parts shown, custom values are also available.

Coilcraft **Designer's Kit C326** contains three samples each of the standard parts shown. To order, contact Coilcraft or purchase the kit on-line at <http://order.coilcraft.com>.

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

Part number <sup>1</sup>	L $\pm 20\%$ <sup>2</sup> ( $\mu$ H)	DCR max (Ohms)	SRF <sup>3</sup> typ (MHz)	Isat <sup>4</sup> (A)	Irms <sup>5</sup> (A)
DO3316H-121ML_	0.12	0.0015	200	28	17
DO3316H-331ML_	0.33	0.002	200	20	16
DO3316H-681ML_	0.68	0.005	200	13	12
DO3316H-102ML_	1.0	0.006	100	11	10
DO3316H-152ML_	1.5	0.008	90	9.0	9.0
DO3316H-222ML_	2.2	0.011	80	7.8	7.4
DO3316H-272ML_	2.7	0.012	65	7.0	6.6
DO3316H-332ML_	3.3	0.014	60	6.4	5.9
DO3316H-392ML_	3.9	0.015	50	5.9	5.3
DO3316H-472ML_	4.7	0.018	45	5.4	4.8

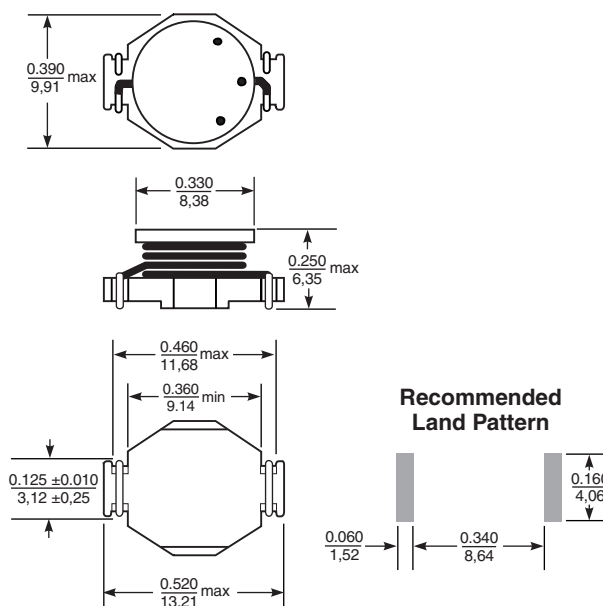
1. When ordering, please specify **packaging** code:

**DO3316H-472ML D**

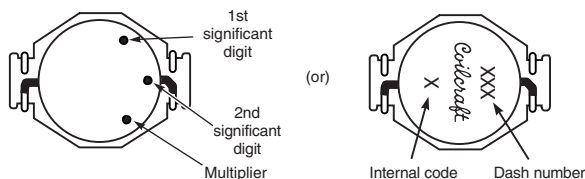
**Packaging:** **D** = 13" machine-ready reel. EIA-481 embossed plastic tape, 750 parts per full reel.

**B** = Less than full reel. In tape, but not machine-ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.
  - SRF measured using Agilent/HP 8753D network analyzer.
  - DC current at which the inductance drops 10% (typ) from its value without current.
  - Average current for a 40°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.



## Part Marking



**Weight:** 0.95 – 1.25 g

**Terminations:** Tin-silver over copper

**Tape and reel:** 750/13" reel 24 mm tape width

For packaging data see Tape and Reel Specifications section.

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Specifications subject to change without notice.

Please check our website for latest information. Document 196-1 Revised 09/21/05

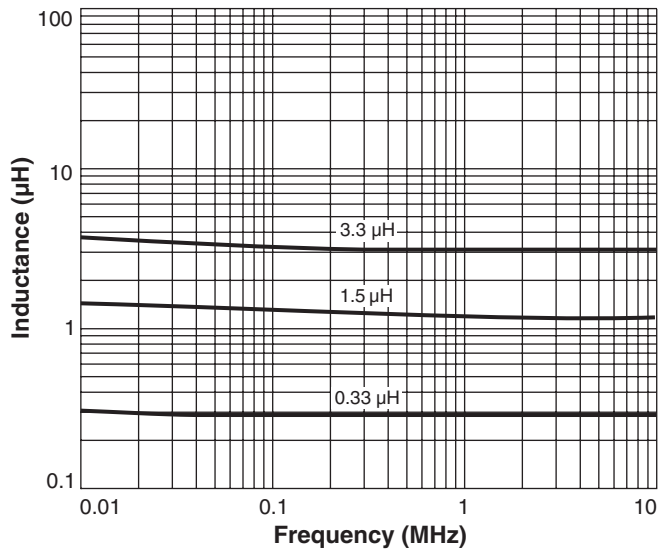
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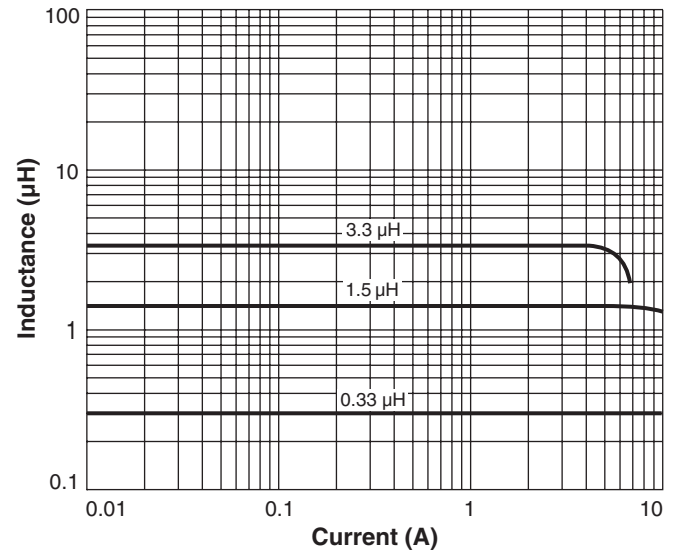


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## Typical L vs Frequency



## Typical L vs Current



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Please check our website for latest information. Document 196-2 Revised 01/18/05

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