NEW!

SMT Power Inductors - DH3316 Series



These power inductors feature a small footprint, magnetic shielding and very high efficiency, making them ideal for high performance DC-DC converter applications.

Like all Coilcraft surface mount power inductors, they are designed with a flat top for reliable pick and place operations. The terminations wrap around the end of the base, ensuring a sound solder fillet and simplifying inspection.

Saturation current ratings up to 10 A and rms current ratings as high as 6 A are available. Very low DC resistance keeps power losses to a minimum.

In addition to the standard values shown here, DH3316 inductors in custom values are also available. For free evaluation samples or to order, contact Coilcraft or visit **www.coilcraft.com**.

Part number[1]	L ±20%[1] (µH)	DCR max (Ohms)	SRF typ[2] (MHz)	Isat[3] (A)	Irms[4] (A)
DH3316P-102ML_	1.0	0.016	290	10.0	6.0
DH3316P-222ML_	2.2	0.020	150	6.7	4.1
DH3316P-332ML_	3.3	0.025	75	5.7	3.7
DH3316P-472ML_	4.7	0.030	55	4.6	3.2
DH3316P-682ML_	6.8	0.048	42	3.6	2.6
DH3316P-103ML_	10	0.065	37	3.2	2.2
DH3316P-153ML_	15	0.084	27	2.6	1.8
DH3316P-223ML_	22	0.126	24	2.2	1.6
DH3316P-333ML_	33	0.198	17	1.7	1.2
DH3316P-473ML_	47	0.295	12	1.5	1.0
DH3316P-683ML_	68	0.415	11	1.1	0.90
DH3316P-104ML_	100	0.620	9	1.0	0.60
DH3316P-154ML_	150	0.970	7	0.8	0.51
DH3316P-224ML_	220	1.270	6	0.65	0.44
DH3316P-334ML_	330	1.850	5	0.50	0.38
DH3316P-684ML_	680	4.400	3	0.35	0.23
DH3316P-105ML_	1000	5.850	2.5	0.27	0.22

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

DH3316P-105ML D

Packaging: D = 13″ machine ready reel. EIA-481 embossed plastic tape (1000 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.

2. Inductance tested at 0.1 Vrms, 100 kHz, 0 Adc.
3. SRF measured using Agilent/HP 8753D network analyzer.
4. DC current at which the inductance drops 10% (typ) from its value without current.
5. Average current for a 40°C rise above 25°C ambient.
6. Operating temperature range –40°C to +85°C
7. Electrical specifications at 25°C

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

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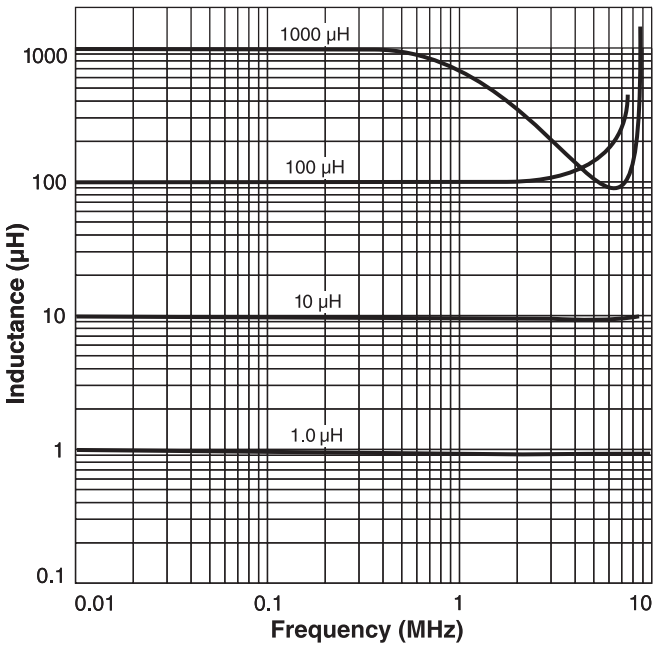
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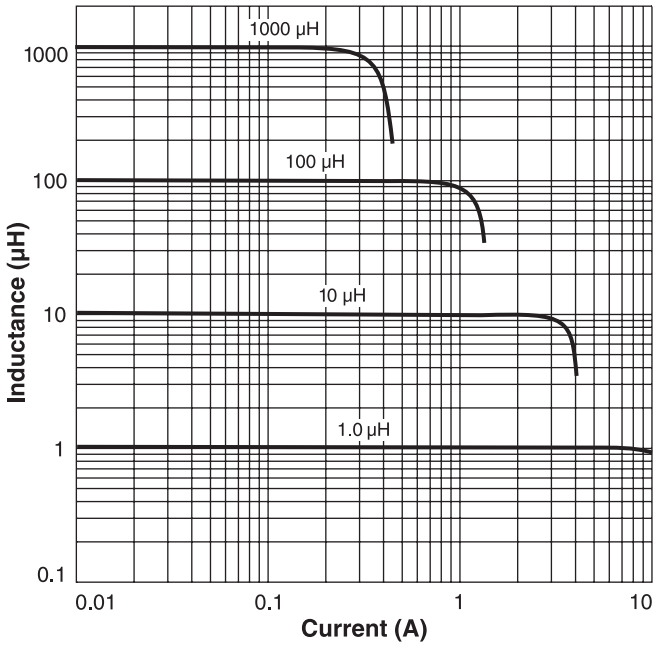
RoHS COMPLIANT

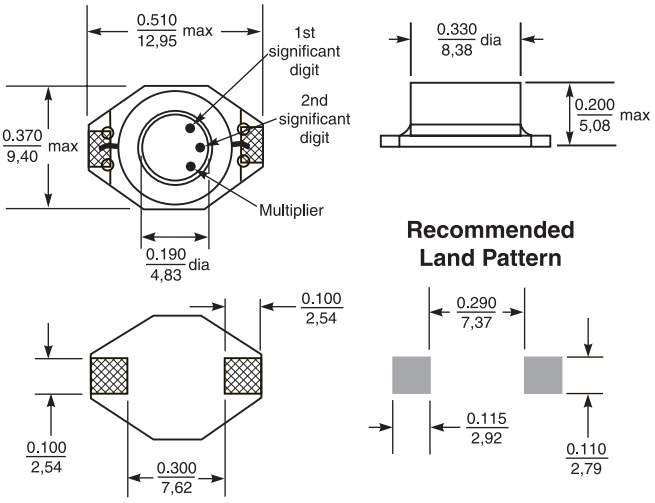
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Typical L vs Frequency



Typical L vs Current





Weight: 860 – 980 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.

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