

SMT Power Inductors - DO5010HC Series



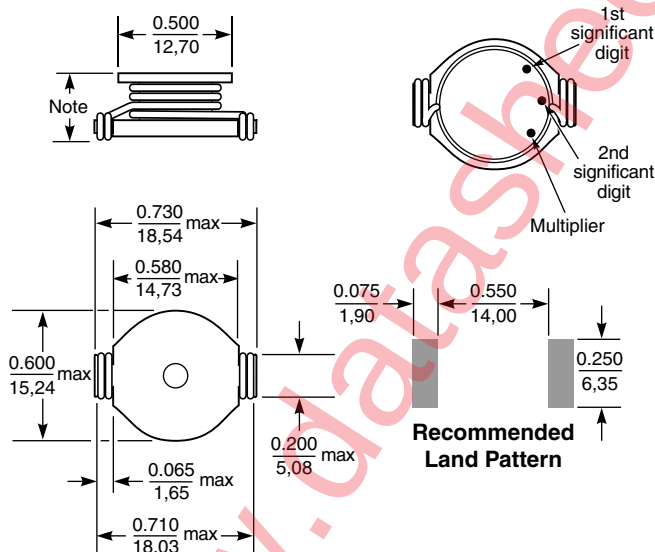
This family of inductors was designed for high current, low-voltage DC-DC converter applications, especially the latest generation of low voltage microprocessors. Current ratings up to 15 A rms and saturation currents up to 30 A are available.

The DO5010HC is designed for applications requiring the smallest possible size in a low-profile part. They are only 8 mm high and have exceptionally low DC resistance thanks to the use of heavier gauge wire. These parts have been optimized for reliable surface mounting with a large flat top and self-leaded design.

In addition to the standard parts shown, custom values are available.

Coilcraft **Designer's Kit C155** contains three samples each of all the parts shown. To order, contact Coilcraft or visit <http://order.coilcraft.com> to order on-line.

SPICE models ON OUR WEB SITE OR CD



Note: Maximum height: 0.315 (8,00) for -781HC to -153HC
0.300 (7,62) for -223HC to -683HC
0.280 (7,11) for -104HC to -105HC

Weight: 3.2 – 4.0 g

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

For packaging data see Tape and Reel Specifications section.

Part Number ¹	Inductance ² ±20% (μH)	DCR max (mΩ)	SRF ³ (MHz)	Isat ⁴ (A)	Irms ⁵ (A)
DO5010P-781HC	0.78	2.6	156	30	15.0
DO5010P-152HC	1.5	4.0	100	25	15.0
DO5010P-222HC	2.2	6.1	75	20	12.0
DO5010P-332HC	3.3	8.6	60	17	10.0
DO5010P-392HC	3.9	10	55	15	9.0
DO5010P-472HC	4.7	14	40	13	8.4
DO5010P-602HC	6.0	17	35	12	7.5
DO5010P-782HC	7.8	18	35	11	7.5
DO5010P-103HC	10.0	26	28	10	6.0
DO5010P-123HC	12.0	28	26	8.5	5.2
DO5010P-153HC	15.0	32	20	8	4.4
DO5010P-223HC	22	47	20	7.0	3.5
DO5010P-333HC	33	66	15	5.5	3.0
DO5010P-473HC	47	86	9	4.5	2.6
DO5010P-683HC	68	130	8	3.5	2.3
DO5010P-104HC	100	190	7	3.0	1.8
DO5010P-154HC	150	250	6	2.6	1.5
DO5010P-224HC	220	380	5	2.4	1.2
DO5010P-334HC	330	560	4	1.9	1.0
DO5010P-474HC	470	850	3	1.4	0.82
DO5010P-684HC	680	1100	2.5	1.2	0.72
DO5010P-105HC	1000	1800	2	1.0	0.56

1. Part number on reel label may have a B suffix to indicate packaging.
2. Inductance tested at 100 kHz, 0.1 Vrms.
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.
For part marking data, see Color Coding section.

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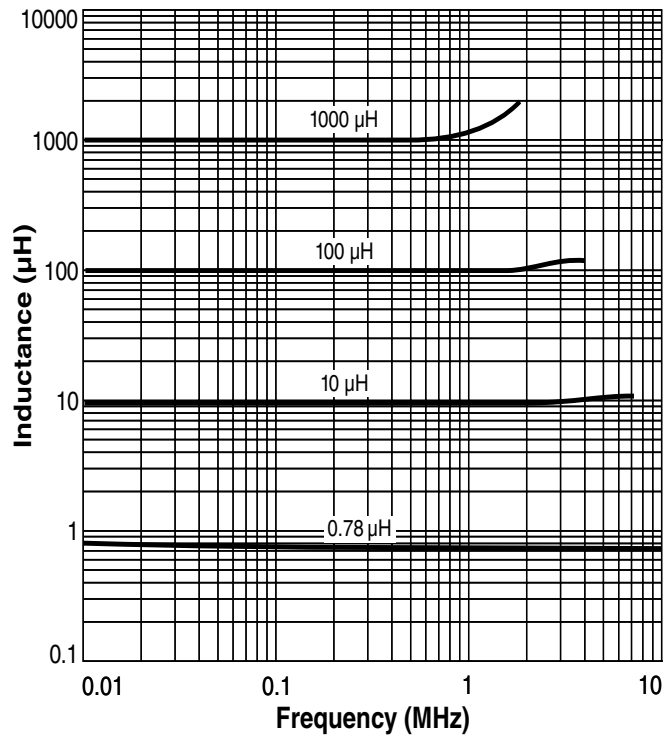
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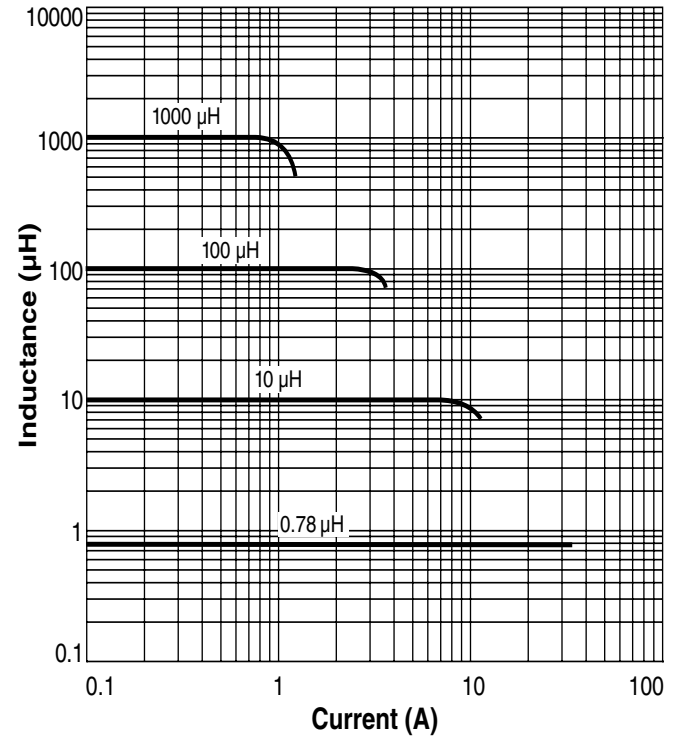
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SMT Power Inductors - DO5010HC Series

Typical L vs Frequency



Typical L vs Current



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