

SMT Power Inductors - DO5022 Series



| Part number ¹ | L ±20% ² (μΗ) | DCR max (Ohms) | SRF typ ³ (MHz) | Isat ⁴ (A) | Irms ⁵ |
|-----------------------------|-----------------------------|----------------------|----------------------------------|--------------------------|-------------------|
| 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 |
| DO5022P-103 | 10 | 0.031 | 30 | 10 | 4.3 |
| DO5022P-153 | 15 | 0.036 | 22 | 8.0 | 4.0 |
| DO5022P-223 | 22 | 0.047 | 20 | 7.0 | 3.5 |
| DO5022P-333 | 33 | 0.066 | 15 | 5.5 | 3.0 |
| DO5022P-473 | 47 | 0.086 | 9 | 4.5 | 2.6 |
| DO5022P-683 | 68 | 0.13 | 8 | 3.5 | 2.3 |
| DO5022P-104 | 100 | 0.19 | 7 | 3.0 | 1.8 |
| DO5022P-154 | 150 | 0.25 | 6 | 2.6 | 1.5 |
| DO5022P-224 | 220 | 0.38 | 5 | 2.4 | 1.2 |
| DO5022P-334 | 330 | 0.56 | 4 | 1.9 | 1.0 |
| DO5022P-474 | 470 | 0.85 | 3 | 1.4 | 0.82 |
| DO5022P-684 | 680 | 1.1 | 2.5 | 1.2 | 0.72 |
| DO5022P-105 | 1000 | 1.8 | 2 | 1.0 | 0.56 |

- Part number on reel label may have a B suffix to indicate that the reel is not machine ready.
- 2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.
- SRF >13 MHz measured using Agilent/HP 8753D network analyzer;
 MHz using Agilent/HP 4192A.
- DC current at which inductance drops 10% (typ) from its value without current.
- 5. Average current for 40°C temperature rise from 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 color dot part marking data. This series of surface mount power inductors is designed for the higher current requirements of notebook computers and other portable and handheld devices.

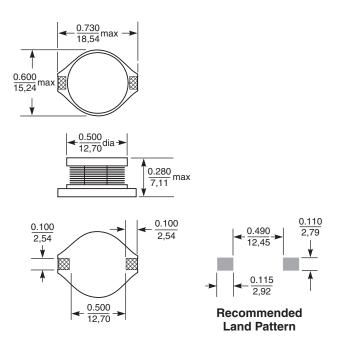
A 1 μ H inductor is rated at 8.6 Arms with a saturation current of 20 Amps. Exceptionally low dc resistance (as low as 0.009 Ohm) keeps power losses to a minimum.

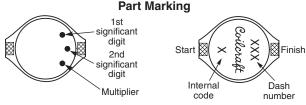
The DO5022 Series was designed specifically for surface mounting. It has a flat top for reliable pick-and place operations and features robust temperature deflection.

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**.

SPICE models on our web site or CD





Weight: 2.8 – 3.9 g

Terminations: Nickel/gold over phos bronze **Tape and reel:** 250/13" reel 32 mm tape width

Tape and reel: 250/13" reel 32 mm tape width For packaging data see Tape and Reel Specifications section.

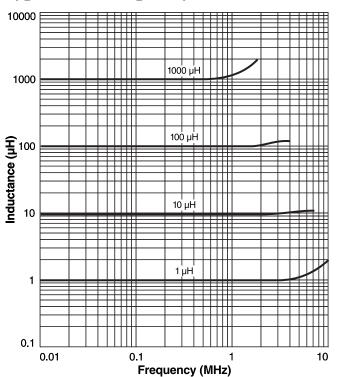
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Specifications subject to change without notice.



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Typical L vs Frequency



Typical L vs Current

