

**NEW!**

# SMT Power Inductor – ME3220 Series



The ME3220 power inductor is a low profile, small footprint part designed for use in notebook computers and handheld products.

With a base dimension of only 2,5 × 3,2 mm, these inductors require very little pc board space. While only 2,5 mm high they can handle up to 2.7 A saturating current. The square, flat top provides an excellent surface for pick and place handling.

They are available in 21 inductance values from 1.0 to 100  $\mu$ H with all above 8.2  $\mu$ H at 10% tolerance.

Coilcraft **Designer's Kit C386** contains samples of all values shown. To order, contact Coilcraft or purchase online at <http://order.coilcraft.com>.

Part number <sup>1</sup>	Inductance <sup>2</sup> ( $\mu$ H)	DCR max <sup>3</sup> (Ohms)	SRF typ <sup>4</sup> (MHz)	Isat <sup>5</sup> (A)
ME3220-102ML_	1.0 $\pm$ 20%	0.058	550.0	2.7
ME3220-152ML_	1.5 $\pm$ 20%	0.068	525.0	2.2
ME3220-222ML_	2.2 $\pm$ 20%	0.104	500.0	1.8
ME3220-332ML_	3.3 $\pm$ 20%	0.138	480.0	1.3
ME3220-472ML_	4.7 $\pm$ 20%	0.190	455.0	1.2
ME3220-562ML_	5.6 $\pm$ 20%	0.200	420.0	1.1
ME3220-682ML_	6.8 $\pm$ 20%	0.270	389.0	1.0
ME3220-822ML_	8.2 $\pm$ 20%	0.290	365.0	0.90
ME3220-103KL_	10 $\pm$ 10%	0.434	335.0	0.80
ME3220-123KL_	12 $\pm$ 10%	0.470	300.0	0.75
ME3220-153KL_	15 $\pm$ 10%	0.520	286.0	0.70
ME3220-183KL_	18 $\pm$ 10%	0.696	250.0	0.64
ME3220-223KL_	22 $\pm$ 10%	0.787	220.0	0.58
ME3220-273KL_	27 $\pm$ 10%	1.19	180.0	0.52
ME3220-333KL_	33 $\pm$ 10%	1.27	150.0	0.47
ME3220-393KL_	39 $\pm$ 10%	1.38	135.0	0.43
ME3220-473KL_	47 $\pm$ 10%	1.80	120.0	0.39
ME3220-563KL_	56 $\pm$ 10%	2.10	110.0	0.36
ME3220-683KL_	68 $\pm$ 10%	2.30	100.0	0.33
ME3220-823KL_	82 $\pm$ 10%	3.00	95.0	0.30
ME3220-104KL_	100 $\pm$ 10%	3.50	85.0	0.27

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

ME3220-104KL **C**

**Packaging: C** = 7" machine-ready reel. EIA-481 embossed plastic tape (2000 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 C instead.

**D** = 13" machine-ready reel. EIA-481 embossed plastic tape (7000 parts per full reel).

- Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc using Coilcraft SMD-A fixture in Agilent/HP 4284A impedance analyzer.
- DCR measured on a micro-ohmmeter and Coilcraft CCF858 test fixture.
- SRF measured using Agilent/HP 8753D network analyzer and Coilcraft SMD-D test fixture.
- DC current at which the inductance drops 15% (typ) from its value without current.
- Operating temperature range -40°C to +85°C.
- Electrical specifications at 25°C.

## Coilcraft®

Specifications subject to change without notice.  
Please check our website for latest information.

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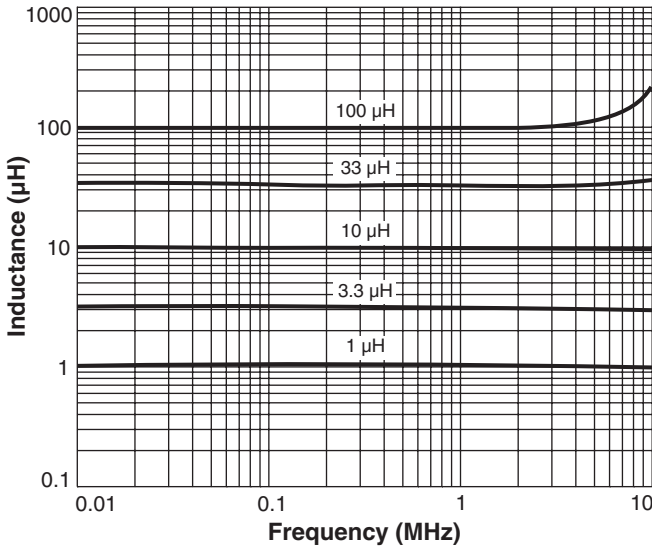
E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>



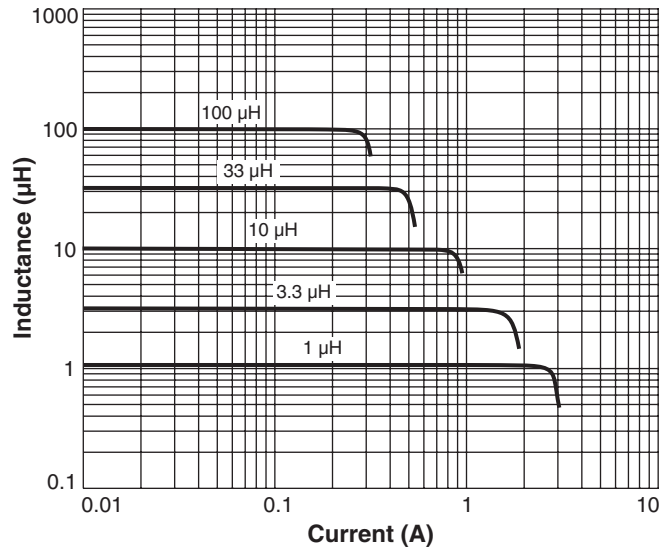
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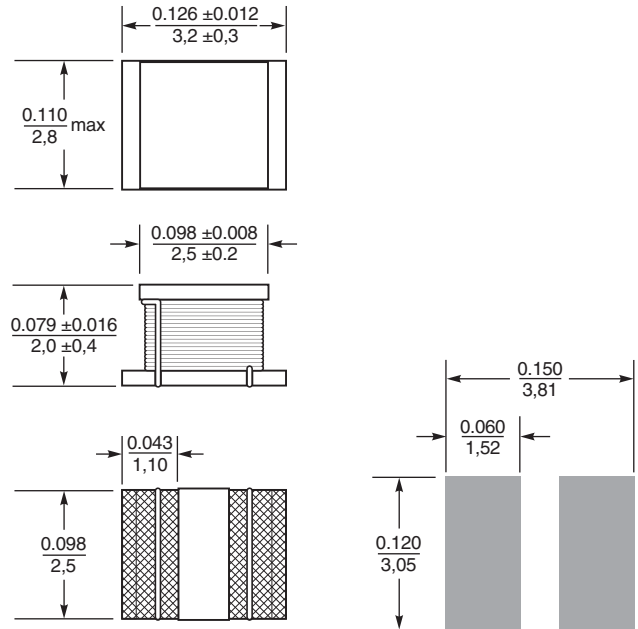
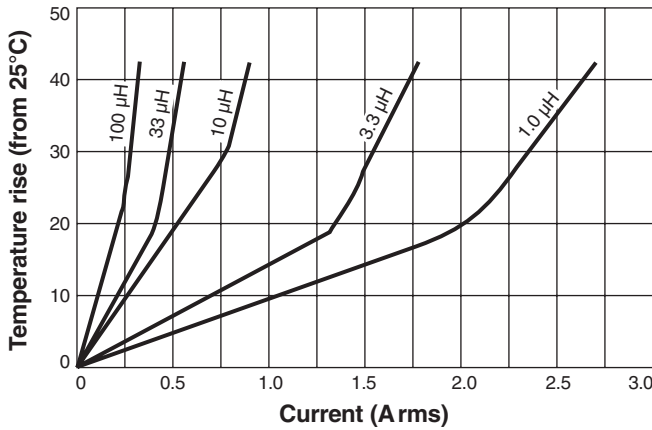
Typical L vs Frequency



Typical L vs Current

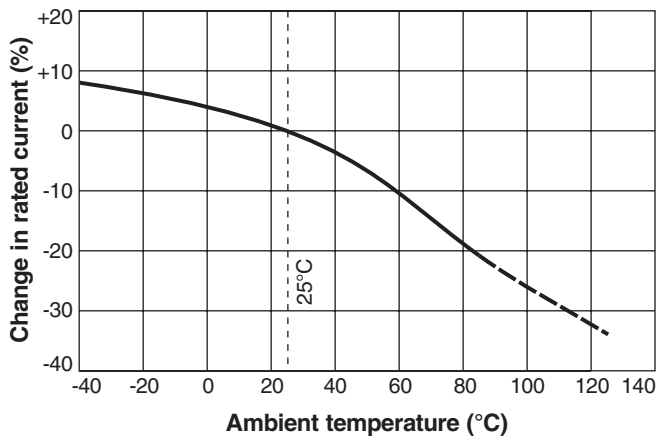


Typical Temperature Rise vs Current



**Recommended Land Pattern**

Current Derating



**Terminations:** Nickel/tin over silver  
**Tape and reel:** 2000/7" reel; 7000/13" reel 8 mm tape width  
 For packaging data see Tape and Reel Specifications section.



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