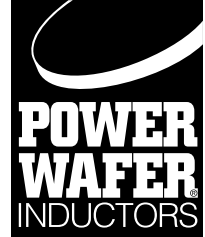


# SMT Power Inductors - LPO4812 Series



The LPO4812 series is designed for applications requiring the smallest possible size in a low profile part. Recommended applications include notebook computers, PC cards, cellular phone handsets, and handheld products.



The specially designed cover provides the best possible surface for pick and place handling, as well as minimizing the pc board space required.

Coilcraft **Designer's Kit C157** contains samples of all values shown. To order, contact Coilcraft or purchase on-line at <http://order.coilcraft.com>.

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

Part number <sup>1</sup>	L <sup>2</sup> ( $\mu$ H)	DCR max (Ohms)	SRF typ (MHz)	Isat <sup>3</sup> (A)	Irms <sup>4</sup> (A)
LPO4812-102MX_	1.0 $\pm$ 20%	0.055	270	1.30	0.85
LPO4812-152MX_	1.5	0.080	220	1.00	0.85
LPO4812-222MX_	2.2	0.090	170	0.80	0.85
LPO4812-332MX_	3.3	0.120	140	0.70	0.80
LPO4812-472MX_	4.7	0.155	110	0.60	0.80
LPO4812-682MX_	6.8	0.225	90	0.45	0.78
LPO4812-103KX_	10 $\pm$ 10%	0.300	60	0.40	0.76
LPO4812-153KX_	15	0.460	50	0.32	0.72
LPO4812-223KX_	22	0.640	40	0.28	0.59
LPO4812-333KX_	33	0.850	30	0.22	0.54
LPO4812-473KX_	47	1.30	28	0.20	0.50
LPO4812-683KX_	68	1.80	22	0.16	0.39
LPO4812-104KX_	100	2.60	18	0.13	0.32
LPO4812-154KX_	150	4.20	14	0.10	0.26
LPO4812-224KX_	220	5.50	11	0.09	0.24

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

**LPO4812-473MXC**

**Packaging: C** = 7" 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 C instead.

**D** = 13" machine-ready reel. EIA-481 embossed plastic tape (3500 parts per full reel).

2. Inductance tested at 100 kHz, 0.1 Vrms 0 Adc.

3. DC current at which the inductance drops 10% (typ) from its value without current.

4. Average current for a 40°C rise from 25°C ambient.

5. Operating temperature range -40°C to +85°C.

6. Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data.

**Coilcraft**<sup>®</sup>

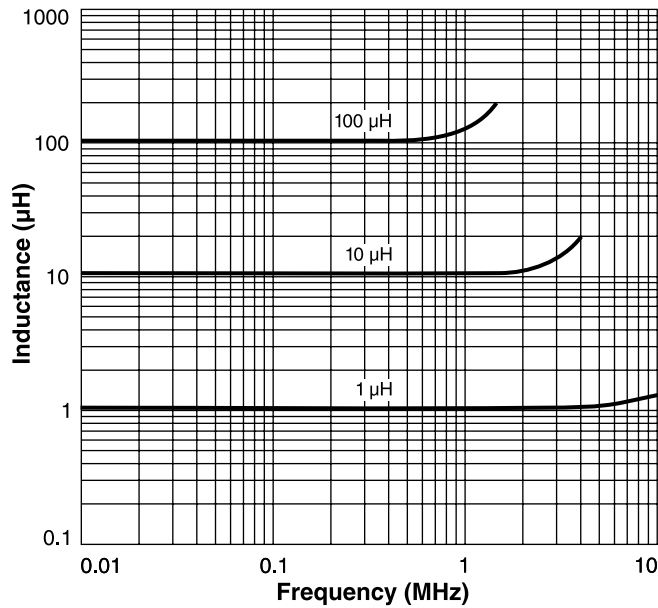
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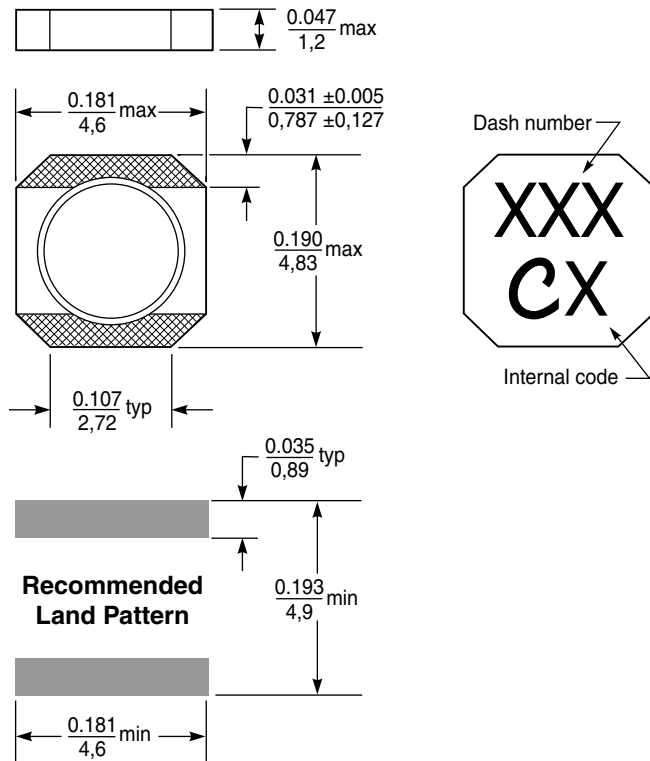
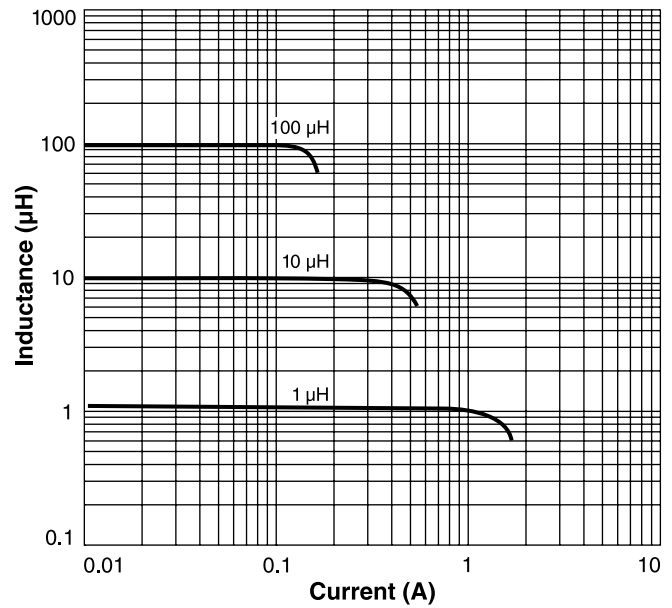
E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>

# SMT Power Inductors - LPO4812 Series

## Typical L vs Frequency



## Typical L vs Current



**Weight:** 53 – 61 mg  
**Tape and reel:** 1000/7" reel; 3500/13" reel 12 mm tape width  
 For packaging data see Tape and Reel Specifications section.



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