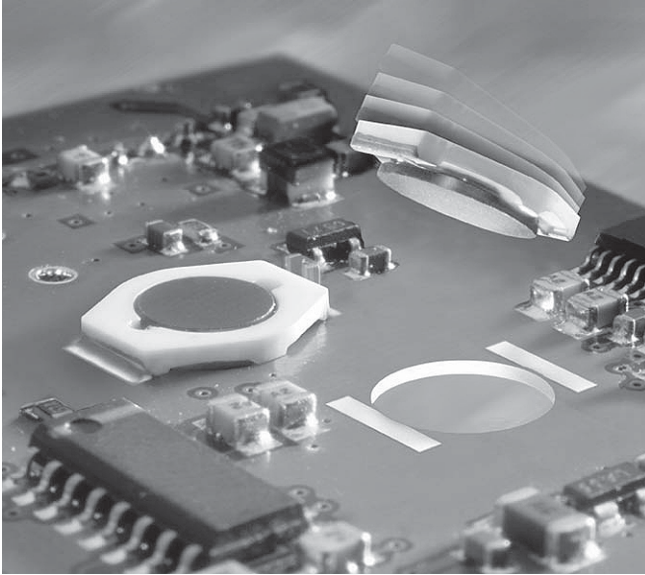




SMT Power Inductors - LPO2506 Series



With an above-board height of just 1,19 mm, this is our thinnest power inductor series, perfect for PC Card or other low profile applications.

The LPO2506 comes in two styles. One is a standard on-board design that is 1,65 mm high.



The second uses Coilcraft's InBoard® Technology. By dropping the inductor core through a hole in the circuit board, the above-board height is reduced to 1,19 mm. (Custom designs can reduce this even further to a maximum of 0,9 mm, depending on board thickness.)

Coilcraft **Designer's Kit C132** contains samples of all in-board values shown; **Kit C133** contains all on-board values. To order, contact Coilcraft, or purchase them on-line at <http://order.coilcraft.com>.

SPICE models ON OUR WEB SITE OR CD

In-board style part number	On-board style part number	L $\pm 20\%$ ¹ (μH)	DCR max (Ohms)	SRF typ (MHz)	Isat ² (A)	Irms ³ (A)
LPO2506IB-472	LPO2506OB-472	4.7	0.145	90	1.6	1.9
LPO2506IB-682	LPO2506OB-682	6.8	0.165	75	1.3	1.7
LPO2506IB-103	LPO2506OB-103	10	0.240	60	1.0	1.5
LPO2506IB-153	LPO2506OB-153	15	0.300	45	0.90	1.3
LPO2506IB-223	LPO2506OB-223	22	0.420	35	0.70	1.0
LPO2506IB-333	LPO2506OB-333	33	0.550	30	0.60	0.90
LPO2506IB-473	LPO2506OB-473	47	0.765	22	0.50	0.70
LPO2506IB-683	LPO2506OB-683	68	1.10	20	0.40	0.60
LPO2506IB-104	LPO2506OB-104	100	1.60	15	0.30	0.50
LPO2506IB-154	LPO2506OB-154	150	2.50	12	0.25	0.40
LPO2506IB-224	LPO2506OB-224	220	3.65	10	0.22	0.32
LPO2506IB-334	LPO2506OB-334	330	4.65	8.0	0.18	0.28
LPO2506IB-474	LPO2506OB-474	470	6.75	6.5	0.14	0.24
LPO2506IB-684	LPO2506OB-684	680	9.15	5.5	0.12	0.20
LPO2506IB-105	LPO2506OB-105	1000	14.20	4.5	0.10	0.16

1. Tested at 100 kHz, 0.1 Vrms, 0 Adc.
 2. DC current at which the inductance drops 10% (typ) from its value without current.
 3. Average current for a 40°C rise above 25°C ambient.
 4. Operating temperature range -40°C to +85°C.
 5. Electrical specifications at 25°C.
- See Qualification Standards section for environmental and test data.

Coilcraft®

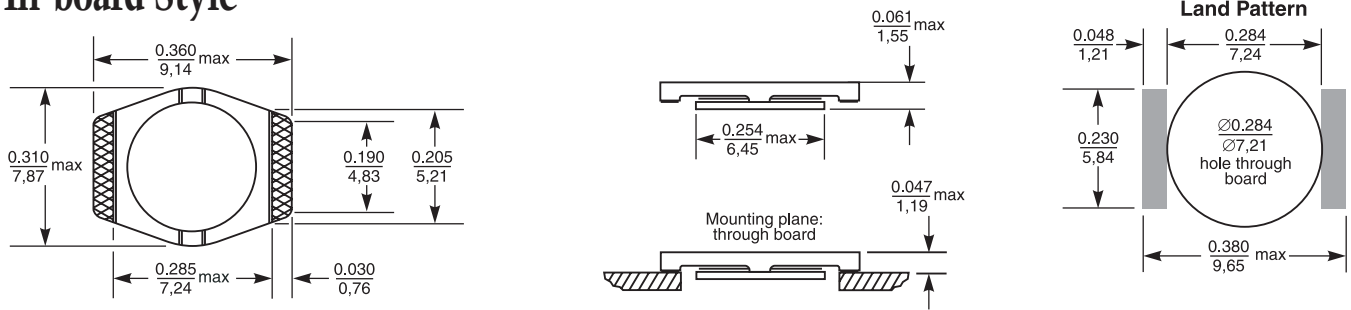
Specifications subject to change without notice.
Please check our website for latest information. Document 208-1 Revised 07/09/03

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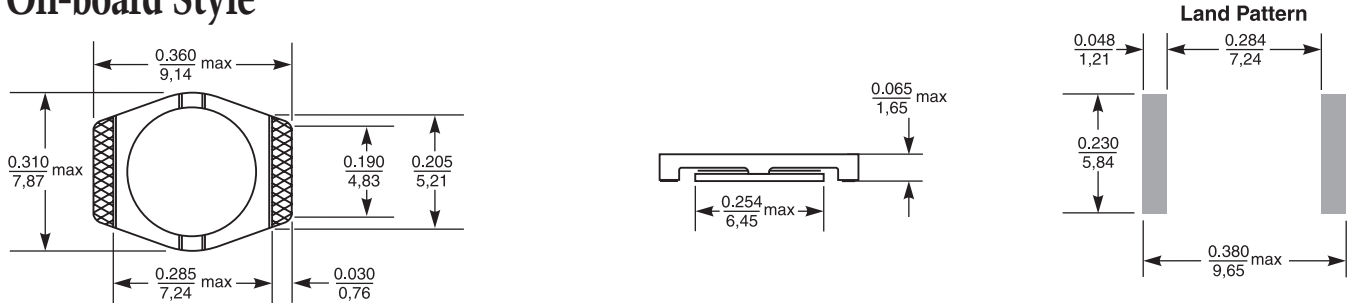


SMT Power Inductors - LPO2506 Series

In-board Style

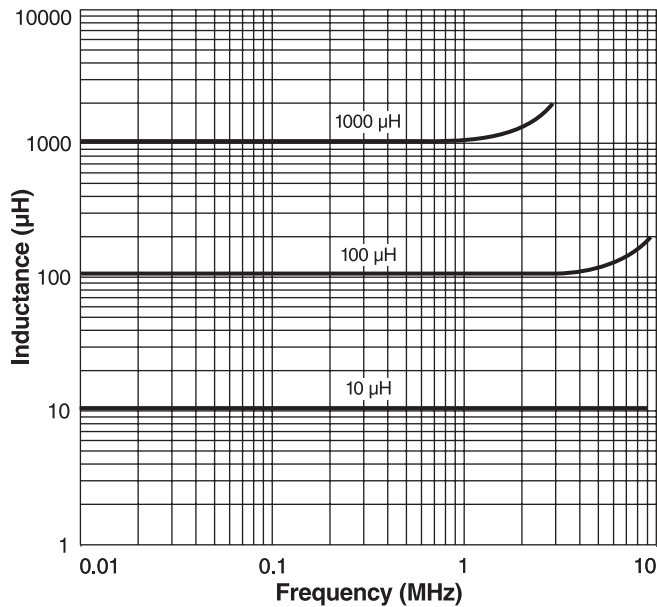


On-board Style

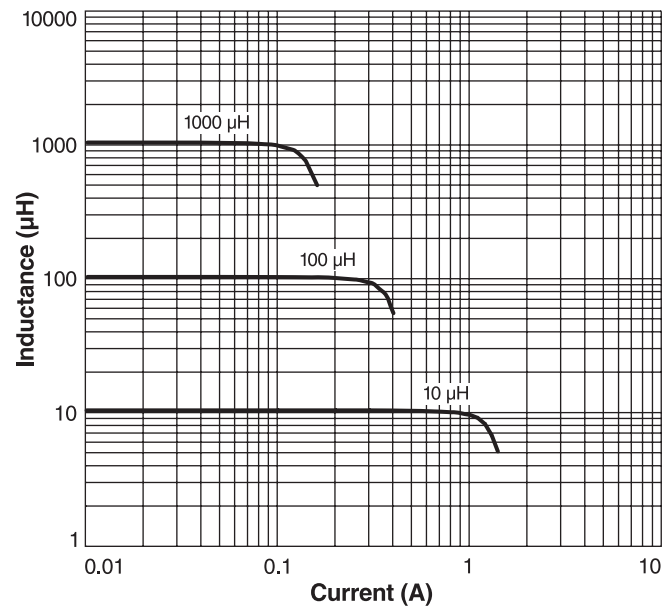


Terminations: Platinum/palladium/silver
Tape and reel: 1000/13" reel 16 mm tape width
 For packaging data see Tape and Reel Specifications section.

Typical L vs Frequency



Typical L vs Current



Specifications subject to change without notice. Please check our website for latest information. Document 208-2 Revised 12/14/02

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