

**NEW!**

SMT Power Inductor - SER2000 Series

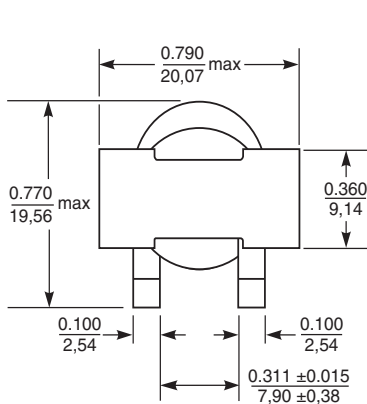


Designed for high current, low voltage power supply applications, the SER2000 Series offers unmatched electrical performance in extremely robust packages. This series is available in six package heights, all sharing the same footprint. Their flat wire windings provide exceptionally low DC resistance and saturation current ratings as high as 100 Amps.

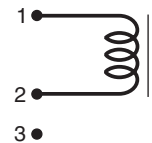
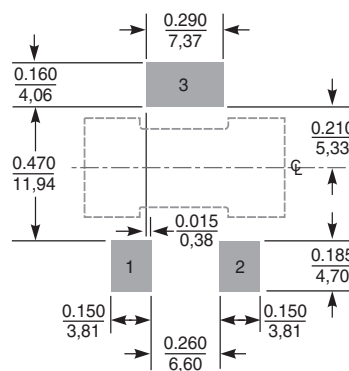
The SER2009 has the lowest profile. Despite measuring only 0.34 inches (8.64 mm) high, it handles current as high as 75 Amps. The taller packages provide even greater current handling capability.

Coilcraft **Designer's Kit C374** contains samples of nine of the standard parts shown. To order, contact Coilcraft, or visit <http://order.coilcraft.com> to purchase on-line.

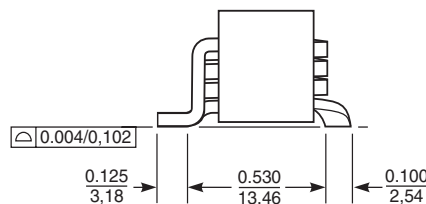
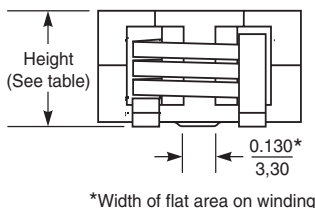
SPICE models ON OUR WEB SITE OR CD



Recommended Land Pattern



Terminal 3 is for mounting stability only. Do not connect to ground or other circuits.



	Maximum height	Weight
SER2009	0.34 / 8,64	6.65 – 6.89 g
SER2010	0.37 / 9,40	7.46 – 7.90 g
SER2011	0.42 / 10,67	8.63 – 9.08 g
SER2012	0.47 / 11,94	9.92 – 10.3 g
SER2013	0.51 / 12,95	10.8 – 11.4 g
SER2014	0.55 / 13,97	11.7 – 12.4 g

Terminations:	Tin-silver over copper	
Tape and reel:	SER2009	250/13" reel 44 mm tape width
	SER2010	200/13" reel 44 mm tape width
	SER2011	170/13" reel 44 mm tape width
	SER2012	150/13" reel 44 mm tape width
	SER2013	150/13" reel 44 mm tape width
	SER2014	125/13" reel 44 mm tape width

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Please check our website for latest information. Document 349-1 Revised 03/11/05

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SMT Power Inductors - SER2000 Series

Part number ¹	Inductance ² ±20% (µH)	DCR ³ ±5% (mOhms)	SRF typ ⁴ (MHz)	Isat ⁵ (A)	Height (mm)
SER2009-301ML_	0.30	0.588	550	100	8,64
SER2010-301ML_	0.30	0.852	182	100	9,40
SER2009-501ML_	0.50	0.588	544	60	8,64
SER2010-501ML_	0.50	0.852	148	81	9,40
SER2011-501ML_	0.50	1.13	161	100	10,67
SER2009-601ML_	0.60	0.588	648	49	8,64
SER2010-601ML_	0.60	0.852	115	70	9,40
SER2011-601ML_	0.60	1.13	124	90	10,67
SER2012-601ML_	0.60	1.35	115	97	11,94
SER2009-681ML_	0.68	0.588	454	45	8,64
SER2010-681ML_	0.68	0.852	136	62	9,40
SER2011-681ML_	0.68	1.13	135	78	10,67
SER2012-681ML_	0.68	1.35	103	85	11,94
SER2013-681ML_	0.68	1.60	104	98	12,95
SER2009-801ML_	0.80	0.588	567	38	8,64
SER2010-801ML_	0.80	0.852	92	53	9,40
SER2011-801ML_	0.80	1.13	113	70	10,67
SER2012-801ML_	0.80	1.35	91	73	11,94
SER2013-801ML_	0.80	1.60	93	85	12,95
SER2014-801ML_	0.80	1.83	104	98	13,97
SER2009-901ML_	0.90	0.588	557	33	8,64
SER2010-901ML_	0.90	0.852	96	48	9,40
SER2011-901ML_	0.90	1.13	104	62	10,67
SER2012-901ML_	0.90	1.35	85	69	11,94
SER2013-901ML_	0.90	1.60	98	73	12,95
SER2014-901ML_	0.90	1.83	102	87	13,97
SER2009-102ML_	1.0	0.588	488	29	8,64
SER2010-102ML_	1.0	0.852	81	42	9,40
SER2011-102ML_	1.0	1.13	97	56	10,67
SER2012-102ML_	1.0	1.35	75	64	11,94
SER2013-102ML_	1.0	1.60	98	68	12,95
SER2014-102ML_	1.0	1.83	88	70	13,97
SER2009-122ML_	1.2	0.588	81	28	8,64
SER2010-122ML_	1.2	0.852	69	37	9,40
SER2011-122ML_	1.2	1.13	81	49	10,67
SER2012-122ML_	1.2	1.35	73	54	11,94
SER2013-122ML_	1.2	1.60	82	58	12,95
SER2014-122ML_	1.2	1.83	78	63	13,97
SER2009-202ML_	2.0	0.588	40	16	8,64
SER2010-202ML_	2.0	0.852	48	27	9,40
SER2011-202ML_	2.0	1.13	56	37	10,67
SER2012-202ML_	2.0	1.35	51	35	11,94
SER2013-202ML_	2.0	1.60	61	40	12,95
SER2014-202ML_	2.0	1.83	62	45	13,97
SER2013-362ML_	3.6	1.60	38	25	12,95
SER2013-402ML_	4.0	1.60	35	20	12,95
SER2014-402ML_	4.0	1.83	36	25	13,97
SER2013-472ML_	4.7	1.60	30	18	12,95

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

SER2014-202MLD

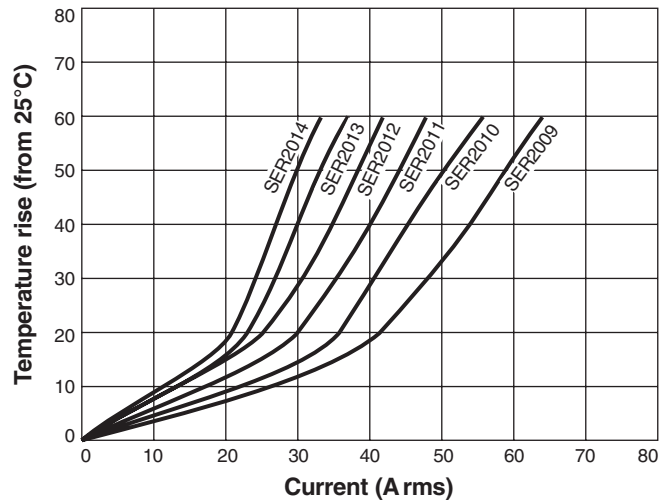
Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape.

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

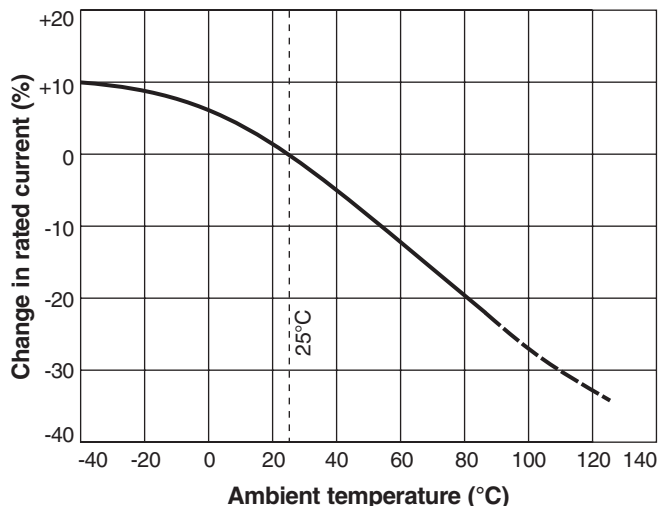
Part numbers shown in bold type are included in Coilcraft Designer's Kit C374.

- Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4192A or equivalent.
- DCR measured on a Keithley 580 micro-ohmmeter.
- SRF measured using an Agilent/HP 8753D network analyzer and a Coilcraft SMD-D test fixture.
- DC current at which the inductance drops 10% (typ) from its value without current.
- Storage and operating temperature range -40°C to +85°C.
- Electrical specifications at 25°C.

Temperature Rise vs Current



Typical Isat Derating



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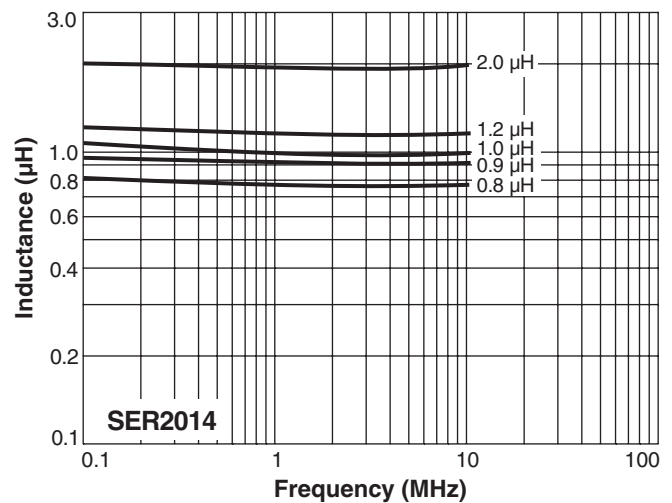
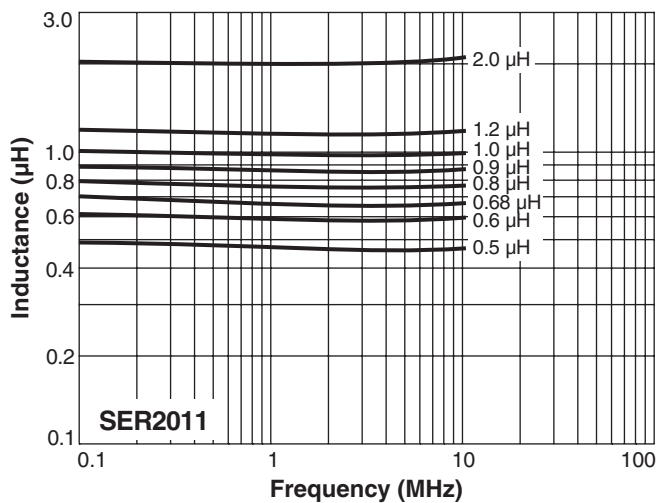
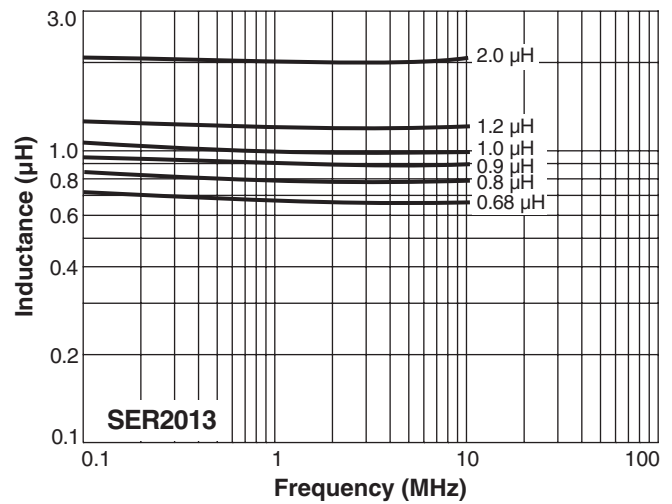
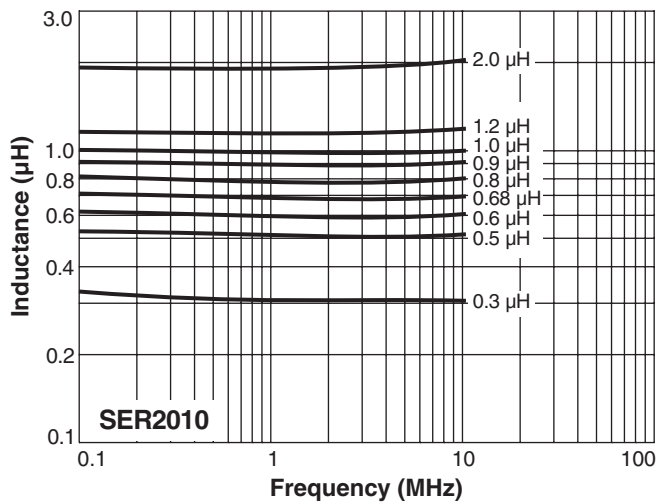
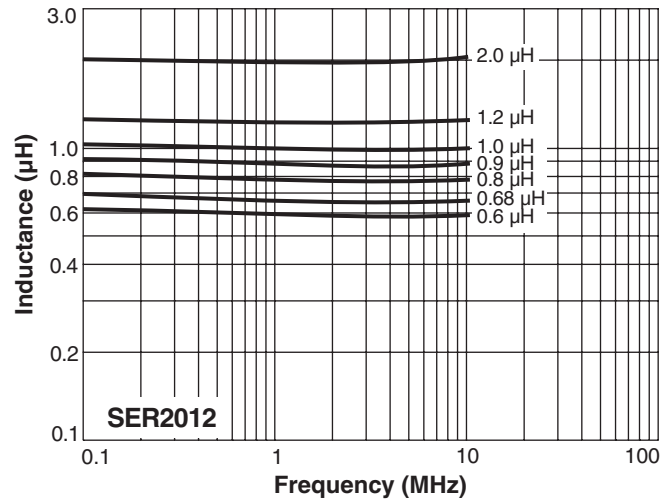
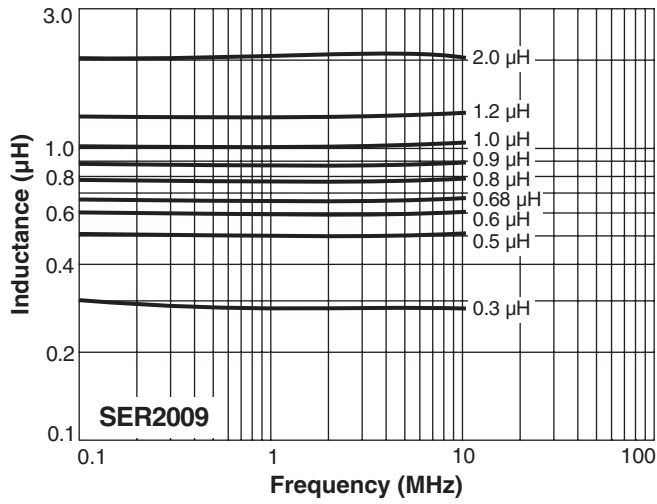
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NEW!



SMT Power Inductors - SER2000 Series

Typical L vs Frequency



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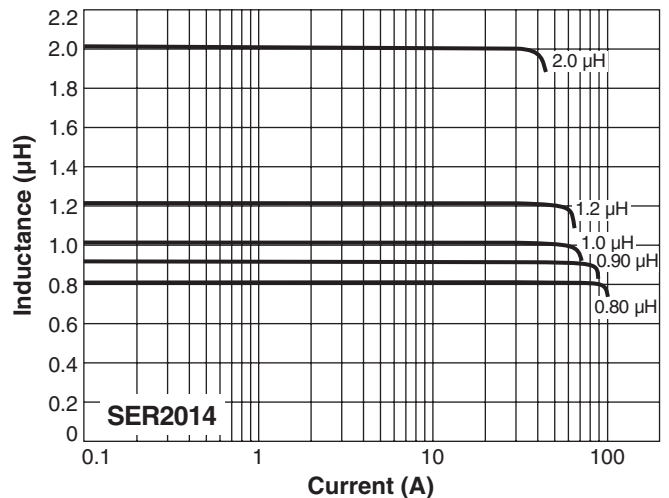
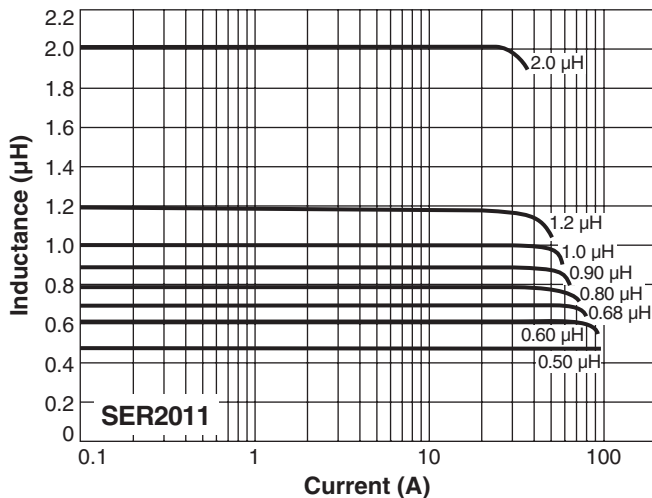
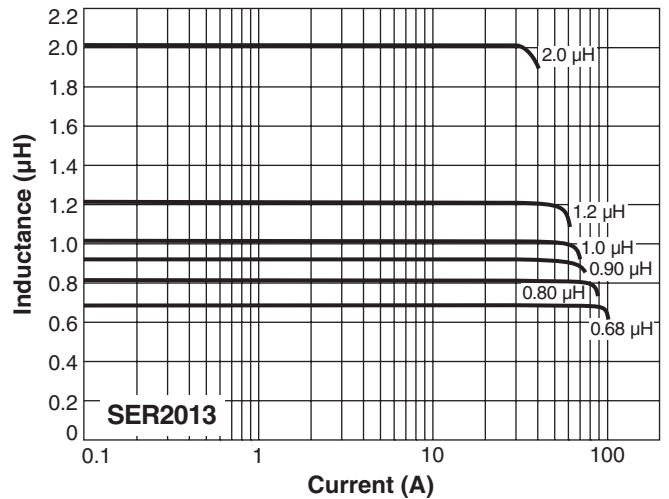
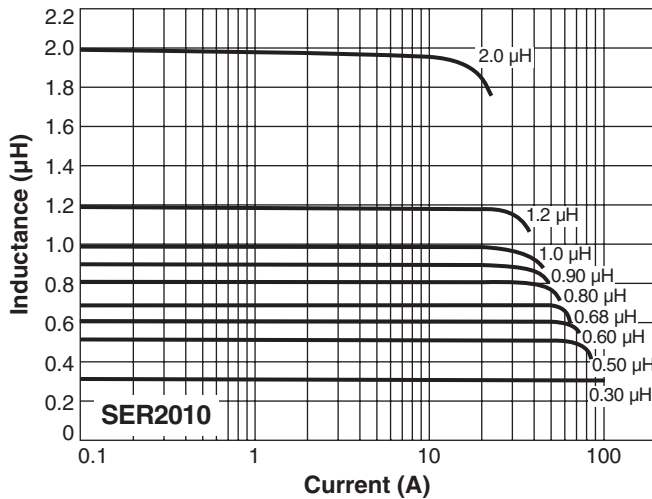
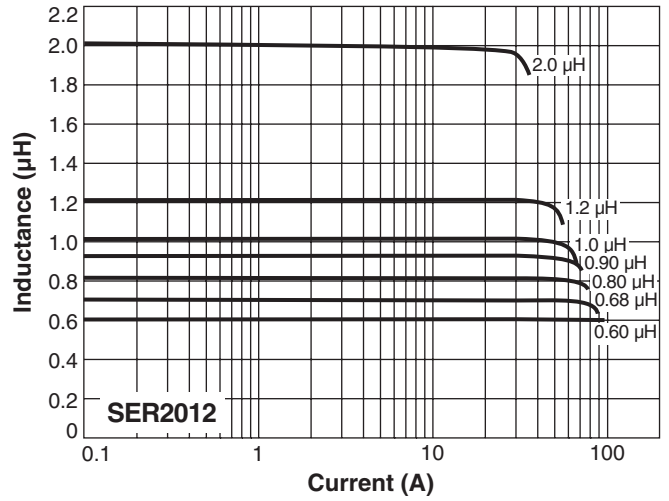
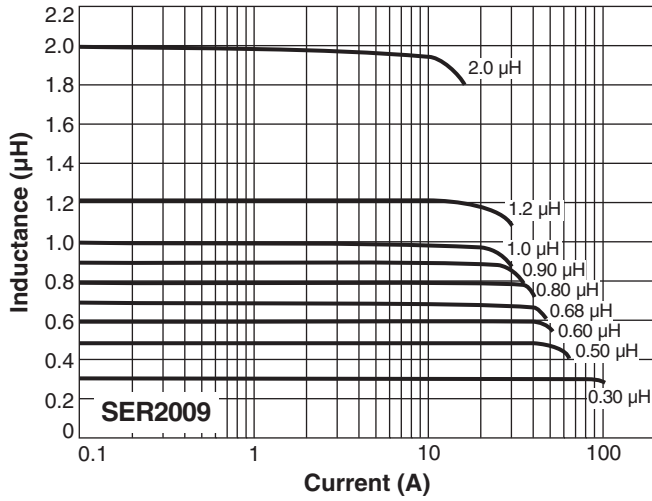
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SMT Power Inductors - SER2000 Series

Typical L vs Current



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