NEW!

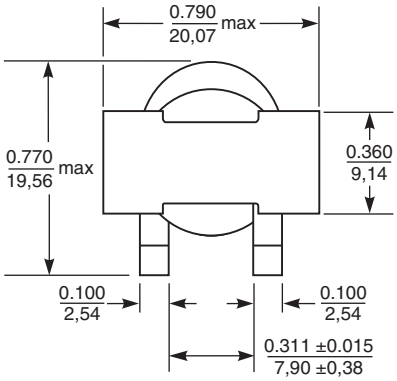
SMT Power Inductor - SER2000 Series

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 as100 Amps.

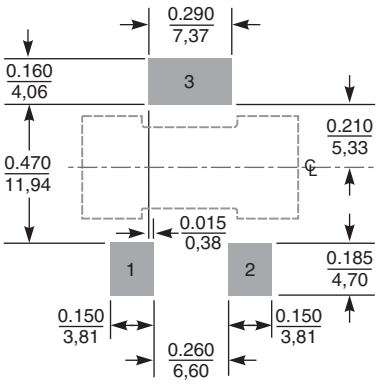
The SER2009 has the lowest profile. Despite measuring only 0.34 inches (8,64 mm) high, it handles current as high as 75 Amps. The taller packages provide even greater current handling capability.

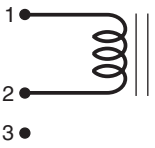
Coilcraft **Designer's Kit C174** contains samples of nine of the standard parts shown. To order, contact Coilcraft, or visit **http://order.coilcraft.com** to purchase on-line.

SPICE models ON OUR WEB SITE OR CD

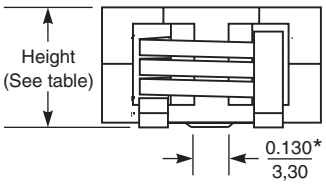


Recommended Land Pattern

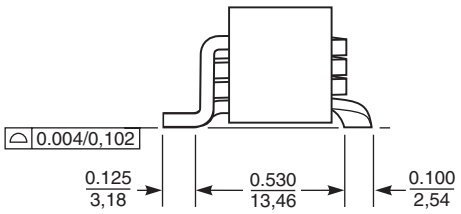




Terminal 3 is for mounting stability only. Do not connect to ground or other circuits.



*Width of flat area on winding



	Maximum height
SER2009	0.34 / 8,64
SER2010	0.37 / 9,40
SER2011	0.42 / 10,67
SER2012	0.47 / 11,94
SER2013	0.51 / 12,95
SER2014	0.55 / 13,97

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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SMT Power Inductors - SER2000 Series

Part number[1]	Inductance[2] ±20% (µH)	DCR[3] ±5% (mOhms)	Isat[4] (A)	SRF typ[5] (MHz)	Height (mm)
SER2009-301MX_	0.30	0.588	100	550	8,64
SER2010-301MX_	0.30	0.852	100	182	9,40
SER2009-501MX_	0.50	0.588	60	544	8,64
SER2010-501MX_	0.50	0.852	81	148	9,40
SER2011-501MX_	0.50	1.130	100	161	10,67
SER2009-601MX_	0.60	0.588	49	648	8,64
SER2010-601MX_	0.60	0.852	70	115	9,40
SER2011-601MX_	0.60	1.130	90	124	10,67
SER2012-601MX_	0.60	1.350	97	115	11,94
SER2009-681MX_	0.68	0.588	45	454	8,64
SER2010-681MX_	0.68	0.852	62	136	9,40
SER2011-681MX_	0.68	1.130	78	135	10,67
SER2012-681MX_	0.68	1.350	85	103	11,94
SER2013-681MX_	0.68	1.600	98	104	12,95
SER2009-801MX_	0.80	0.588	38	567	8,64
SER2010-801MX_	0.80	0.852	53	92	9,40
SER2011-801MX_	0.80	1.130	70	113	10,67
SER2012-801MX_	0.80	1.350	73	91	11,94
SER2013-801MX_	0.80	1.600	85	93	12,95
SER2014-801MX_	0.80	1.830	98	104	13,97
SER2009-901MX_	0.90	0.588	33	557	8,64
SER2010-901MX_	0.90	0.852	48	96	9,40
SER2011-901MX_	0.90	1.130	62	104	10,67
SER2012-901MX_	0.90	1.350	69	85	11,94
SER2013-901MX_	0.90	1.600	73	98	12,95
SER2014-901MX_	0.90	1.830	87	102	13,97
SER2009-102MX_	1.0	0.588	29	488	8,64
SER2010-102MX_	1.0	0.852	42	81	9,40
SER2011-102MX_	1.0	1.130	56	97	10,67
SER2012-102MX_	1.0	1.350	64	75	11,94
SER2013-102MX_	1.0	1.600	68	98	12,95
SER2014-102MX_	1.0	1.830	70	88	13,97
SER2009-122MX_	1.2	0.588	28	81	8,64
SER2010-122MX_	1.2	0.852	37	69	9,40
SER2011-122MX_	1.2	1.130	49	81	10,67
SER2012-122MX_	1.2	1.350	54	73	11,94
SER2013-122MX_	1.2	1.600	58	82	12,95
SER2014-122MX_	1.2	1.830	63	78	13,97
SER2009-202MX_	2.0	0.588	16	40	8,64
SER2010-202MX_	2.0	0.852	27	48	9,40
SER2011-202MX_	2.0	1.130	37	56	10,67
SER2012-202MX_	2.0	1.350	35	51	11,94
SER2013-202MX_	2.0	1.600	40	61	12,95
SER2014-202MX_	2.0	1.830	45	62	13,97

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

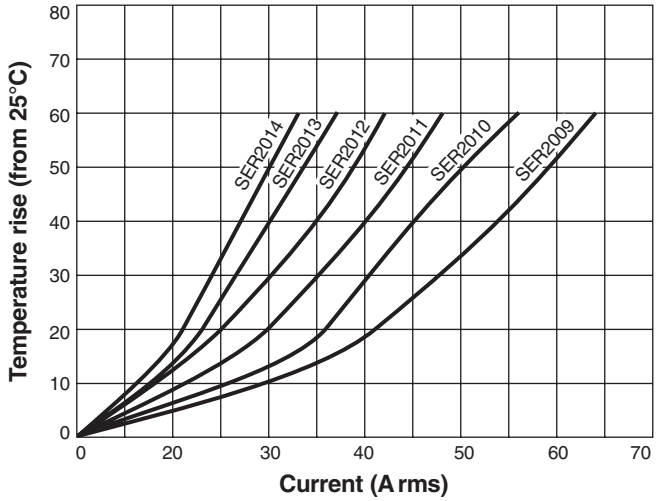
   SER2014-202MX D

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

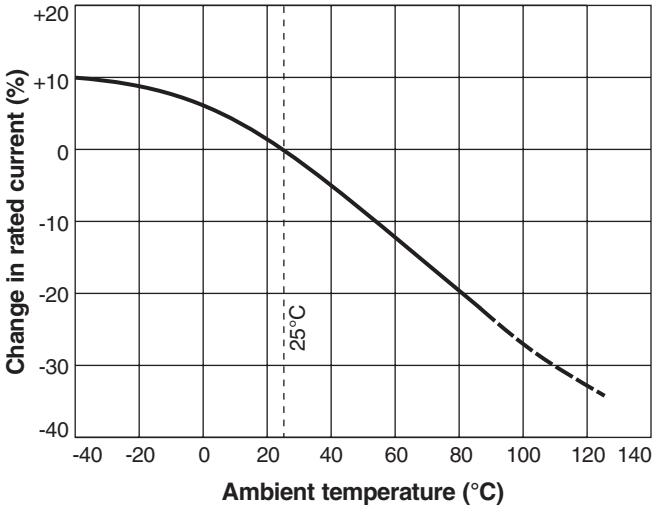
   B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

   Part numbers shown in bold type are included in Coilcraft Designer's Kit C174.
2. Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/ HP 4192A or equivalent.
3. DCR measured on a Keithley 580 micro-ohmmeter.
4. DC current at which the inductance drops 10% (typ) from its value without current.
5. SRF measured using an Agilent/HP 8753D network analyzer and a Coilcraft SMD-D test fixture.
6. Storage and operating temperature range –40°C to +85°C.
7. Electrical specifications at 25°C.

Temperature Rise vs Current



Current Derating



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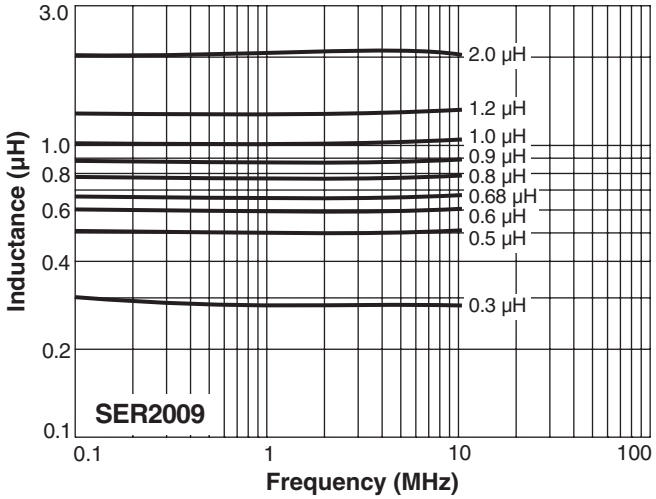
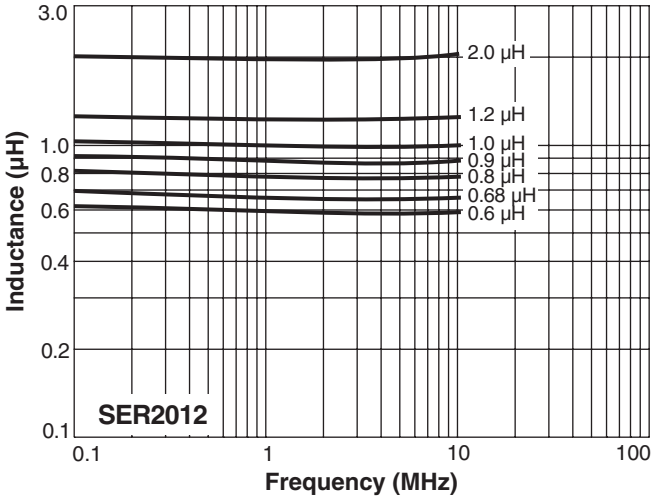
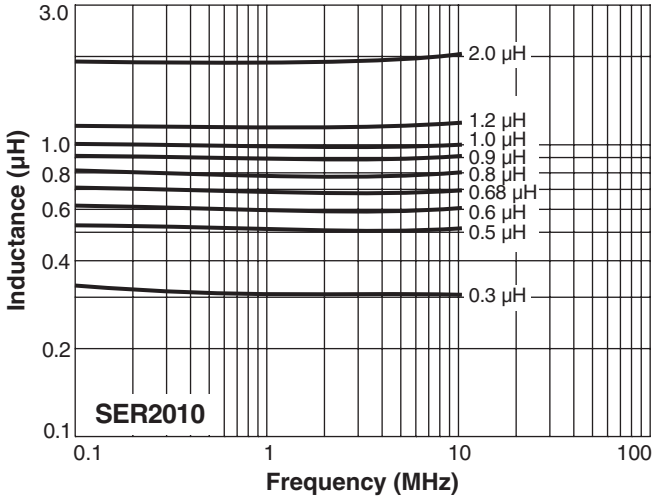
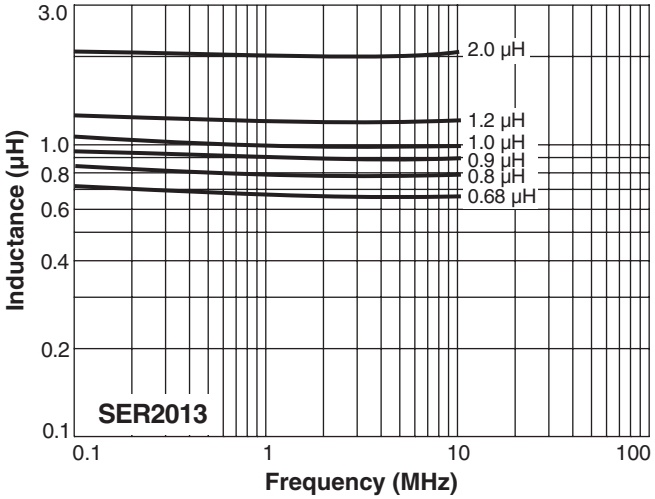
SMT Power Inductors - SER2000 Series

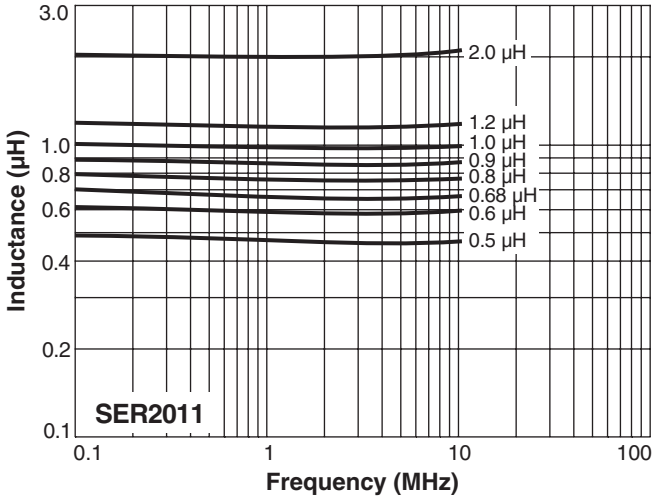
Typical L vs Frequency

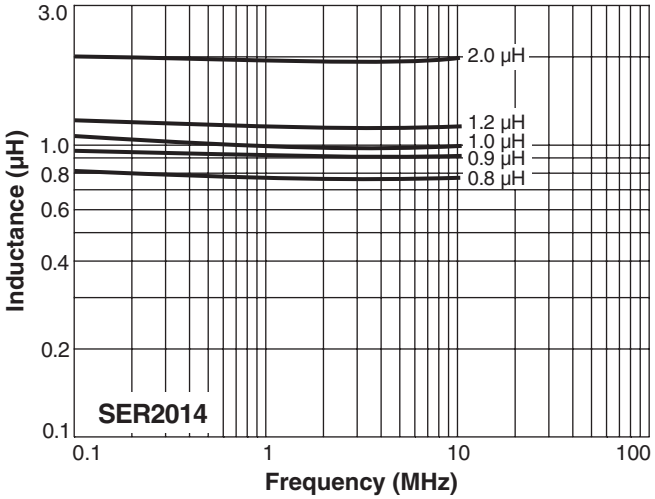












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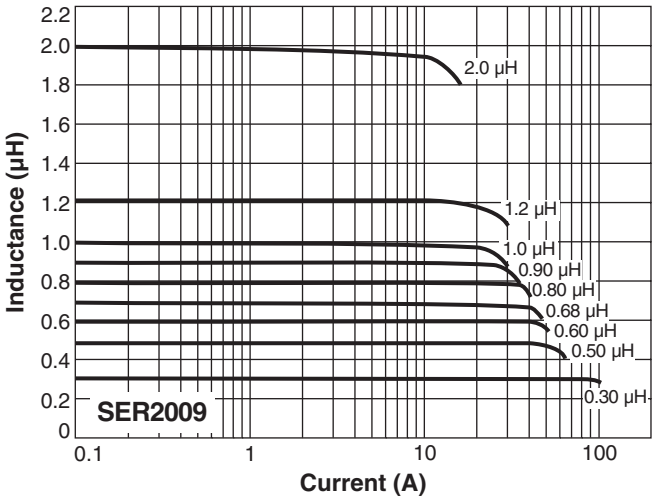
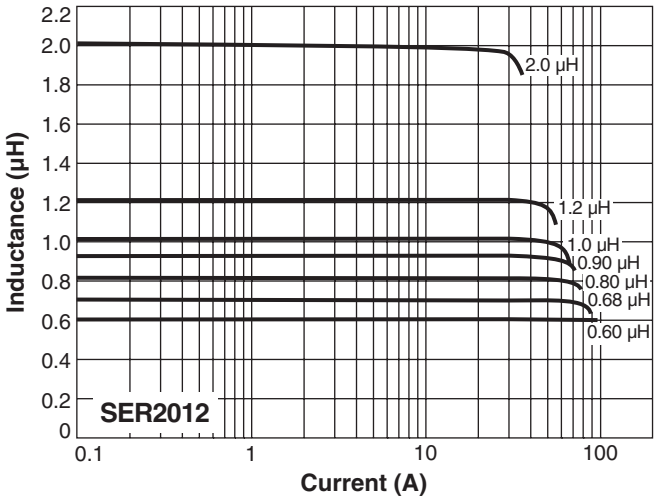
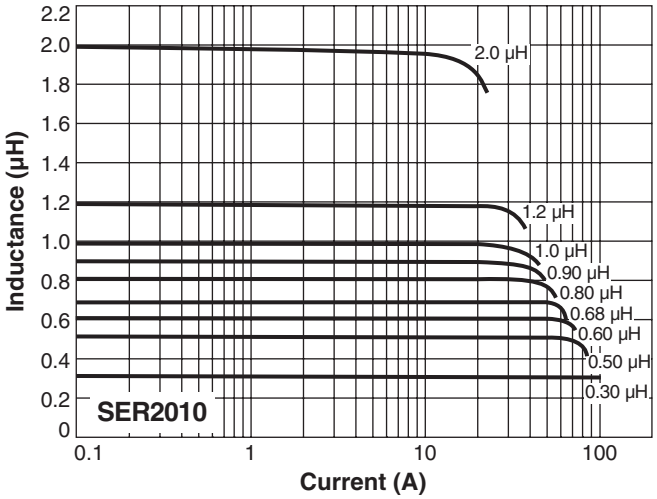
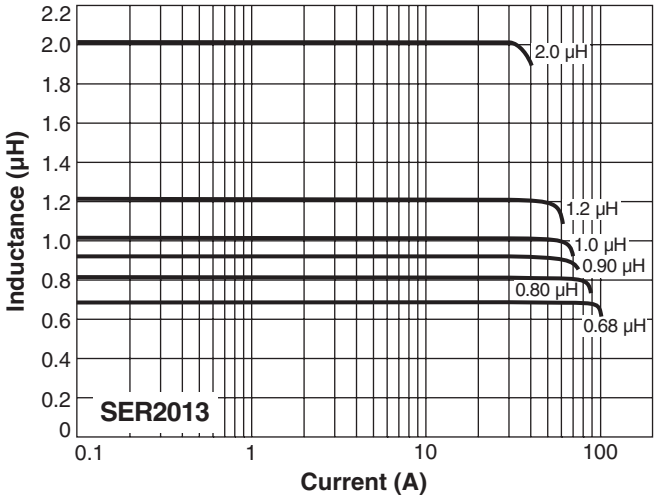
SMT Power Inductors - SER2000 Series

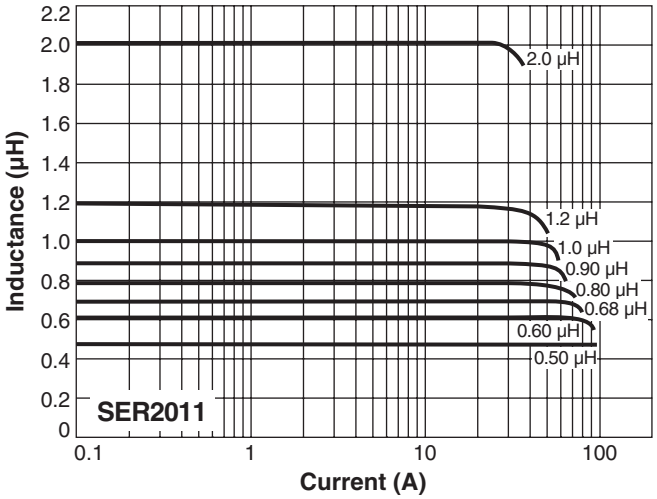
Typical L vs Current

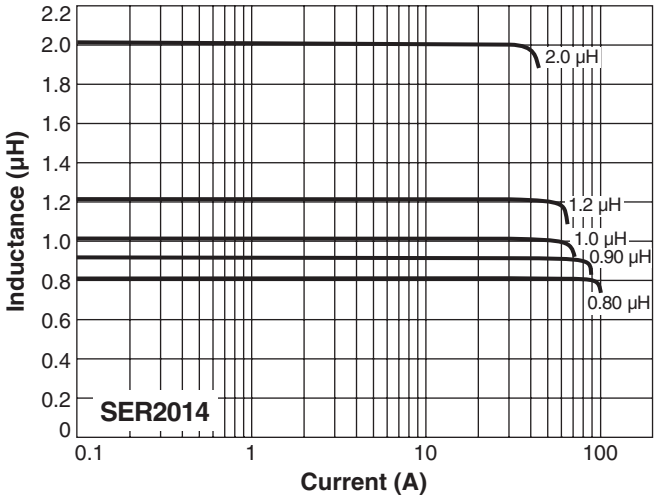












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