

**NEW!**

# SMT Power Inductors - SER2900 Series



- Same electrical specifications as Coilcraft's SER2800
- Extremely low DCR; Current handling to >100 Amps
- Third mounting pad for greater stability and board adhesion

**Core material** Ferrite

**Terminations** Leads: RoHS compliant tin-silver over copper.  
Base pad: RoHS compliant gold over nickel over phos bronze.  
Other terminations available at additional cost.

**Weight** SER2915L – 28.5 g; SER2915H – 29.7 g;  
SER2918H – 35.7 g

**Ambient temperature** –40°C to +85°C with I<sub>rms</sub> current, +85°C to +125°C with derated current

**Storage temperature** Component: –40°C to +125°C.  
Packaging: –40°C to +80°C

**Resistance to soldering heat** Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**  
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

**Packaging** 25 pieces per tray

**PCB washing** Only pure water or alcohol recommended

Part number <sup>1</sup>	Inductance <sup>2</sup> ±10% (μH)	DCR <sup>3</sup> (mOhms)		SRF typ <sup>4</sup> (MHz)	Isat (A) <sup>5</sup>			Irms (A) <sup>6</sup>	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
SER2915L-152KL	1.5	1.50	1.65	60	100	>100	>100	20	30
SER2915H-222KL	2.2	1.86	2.05	40	100	>100	>100	20	30
SER2915L-222KL	2.2	1.50	1.65	50	82.0	84.0	84.8	20	30
SER2918H-332KL	3.3	2.60	2.86	40	91.0	92.5	93.6	20	28
SER2915H-332KL	3.3	1.86	2.05	30	62.0	66.9	68.4	20	30
SER2915L-332KL	3.3	1.50	1.65	40	48.0	54.0	57.0	20	30
SER2918H-472KL	4.7	2.60	2.86	30	59.0	61.2	62.4	20	28
SER2915H-472KL	4.7	1.86	2.05	25	42.0	48.0	50.1	20	30
SER2915L-472KL	4.7	1.50	1.65	30	33.0	36.9	39.0	20	30
SER2918H-682KL	6.8	2.60	2.86	25	42.0	45.0	45.9	20	28
SER2915H-682KL	6.8	1.86	2.05	20	30.0	34.5	36.2	20	30
SER2915L-682KL	6.8	1.50	1.65	25	22.0	26.0	27.8	20	30
SER2918H-103KL	10	2.60	2.86	20	28.0	31.2	32.1	20	28
SER2915H-103KL	10	1.86	2.05	15	18.0	21.5	23.4	20	30
SER2915L-103KL	10	1.50	1.65	20	13.0	16.2	17.6	20	30
SER2918H-153KL	15	2.60	2.86	16	18.0	21.2	21.9	20	28
SER2915H-153KL	15	1.86	2.05	12	11.5	14.0	15.2	20	30
SER2915L-153KL	15	1.50	1.65	15	7.5	9.8	11.0	20	30
SER2918H-223KL	22	2.60	2.86	15	12.0	14.0	15.0	20	28
SER2915H-223KL	22	1.86	2.05	10	7.0	8.6	9.6	20	30
SER2915L-223KL	22	1.50	1.65	10	4.5	6.0	6.8	20	30
SER2918H-333KL	33	2.60	2.86	10	7.0	8.7	9.6	20	28
SER2915H-333KL	33	1.86	2.05	8	4.0	5.1	5.9	20	30
SER2915L-333KL	33	1.50	1.65	7	2.0	2.6	3.3	20	30

1. When ordering, specify **termination** code:

↓  
**SER2915-333KL**

**Termination:** L = RoHS compliant tin-silver over copper.

**Special order:**

**T** = RoHS tin-silver-copper (95.5/4/0.5) or  
**S** = non-RoHS tin-lead (63/37).

2. Inductance measured at 500 kHz, 0.1 V<sub>rms</sub>, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.
3. DCR measured on a Keithley 580 micro-ohmmeter or equivalent.
4. SRF measured using an Agilent/HP 8753D network analyzer and a Coilcraft SMD-D test fixture.
5. Peak dc current at which the inductance drops the specified amount from its value without current. When Isat rating is less than I<sub>rms</sub>, Isat is the more critical specification.
6. Current that causes the specified temperature rise from 25°C ambient. When I<sub>rms</sub> is greater than Isat, Isat is the more critical specification, and I<sub>rms</sub> is shown in *gray type*. See Temperature Rise vs Current curve on next page.
7. Electrical specifications at 25°C.  
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

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Please check our website for latest information.

Document 644-1 Revised 11/30/09

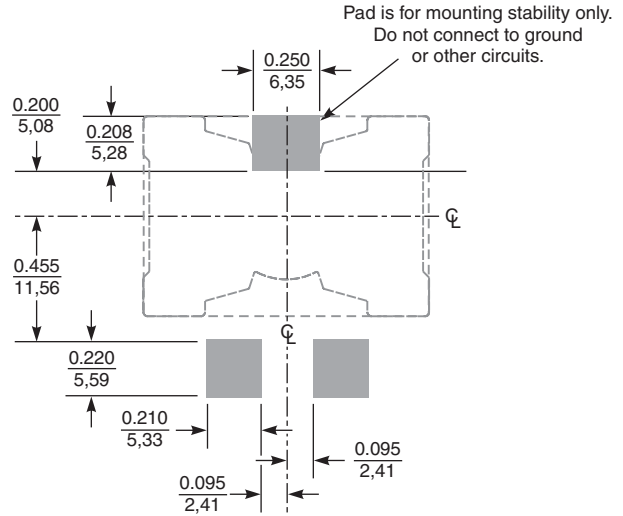
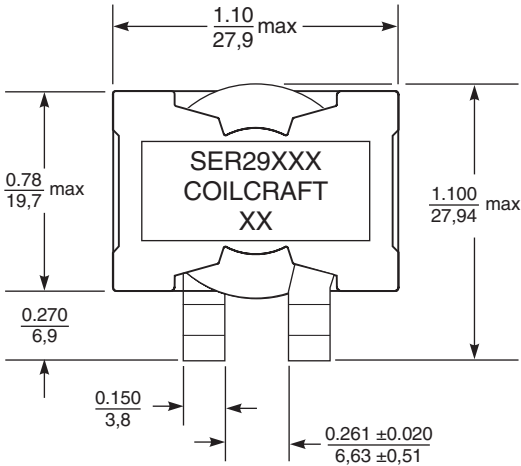
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

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



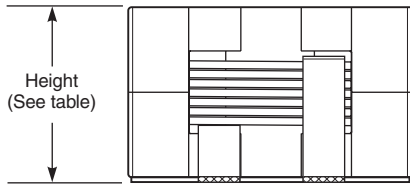
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Pad is for mounting stability only.  
Do not connect to ground or other circuits.

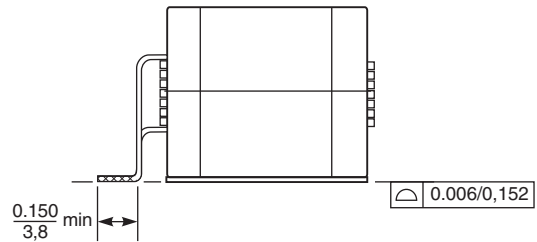
### Recommended Land Pattern



Height  
(See table)

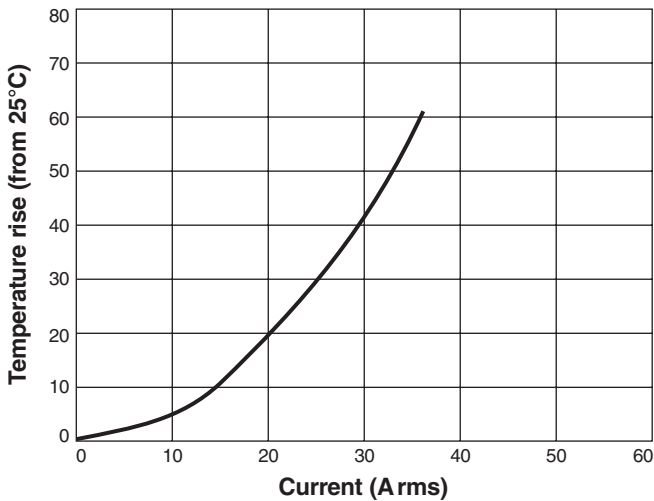
#### Maximum height

SER2915L	0.605 / 15,36
SER2915H	0.605 / 15,36
SER2918H	0.700 / 17,78

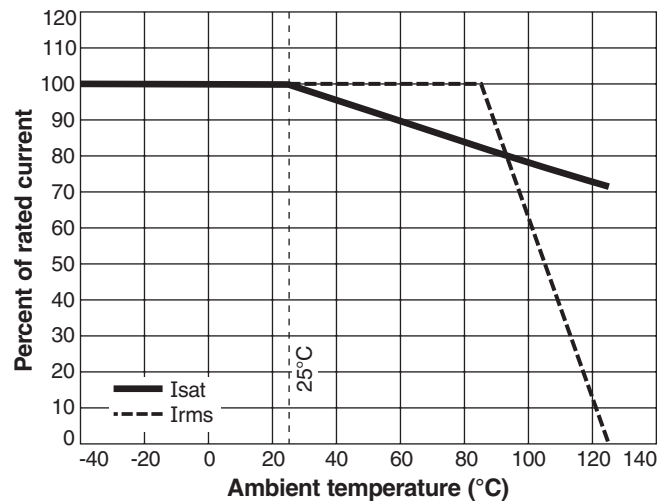


Dimensions are in inches / mm

## Temperature Rise vs Current



## Current Derating



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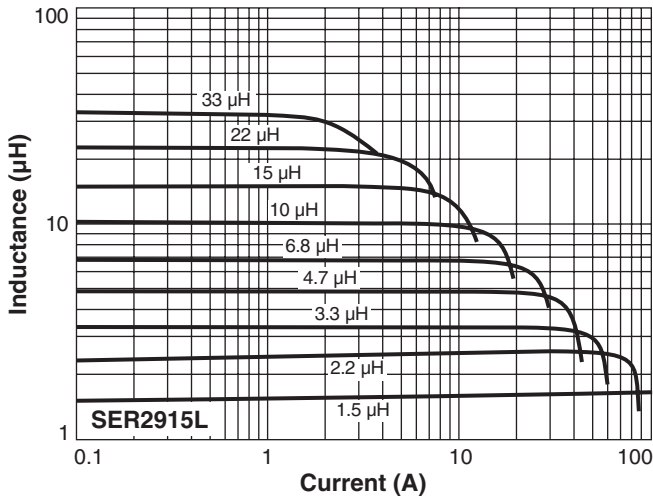
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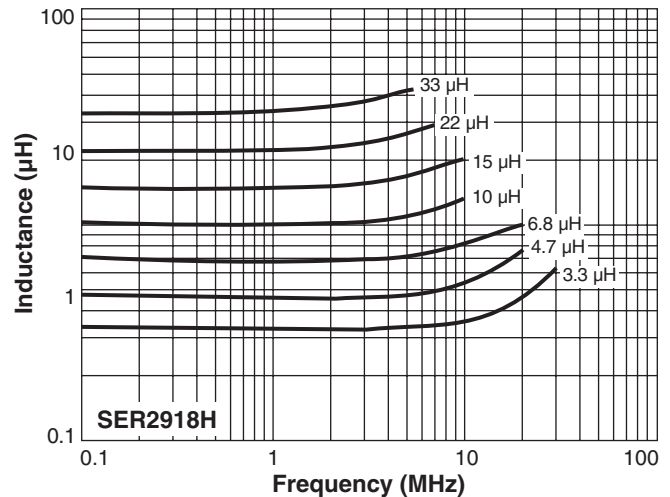
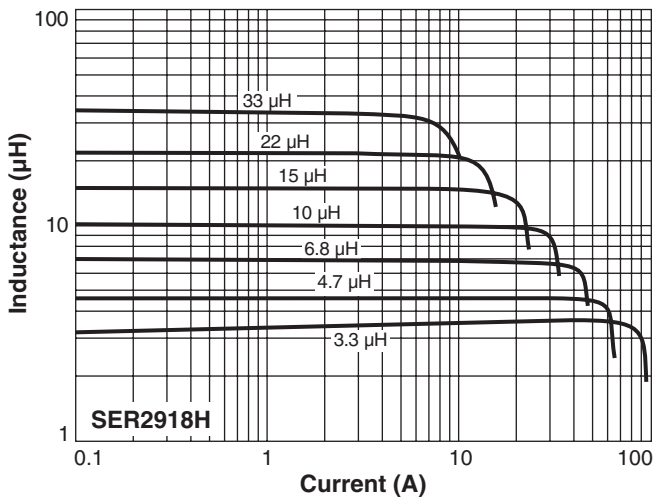
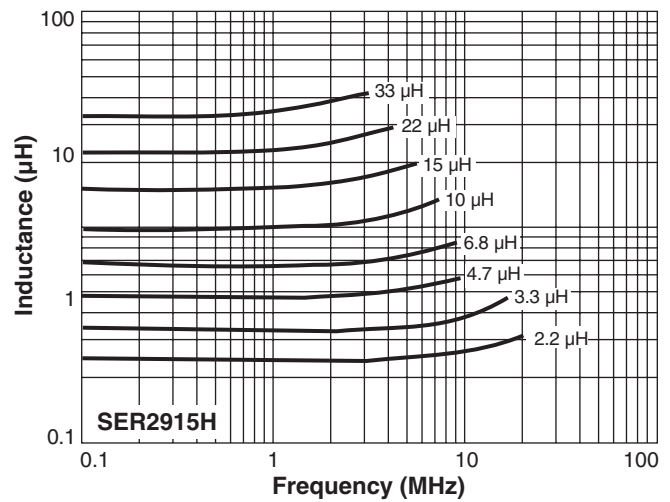
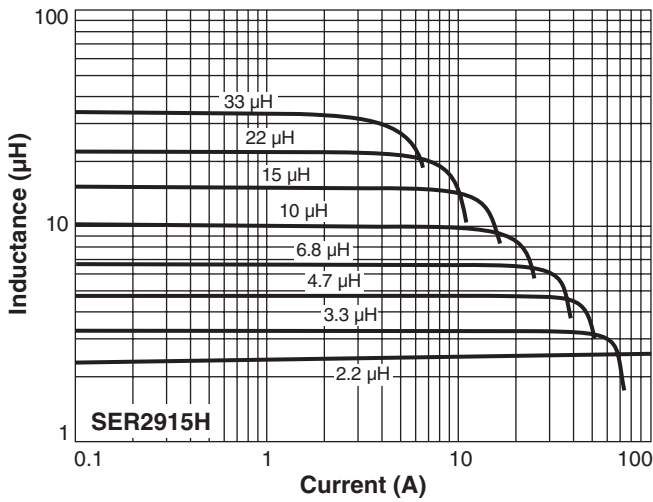
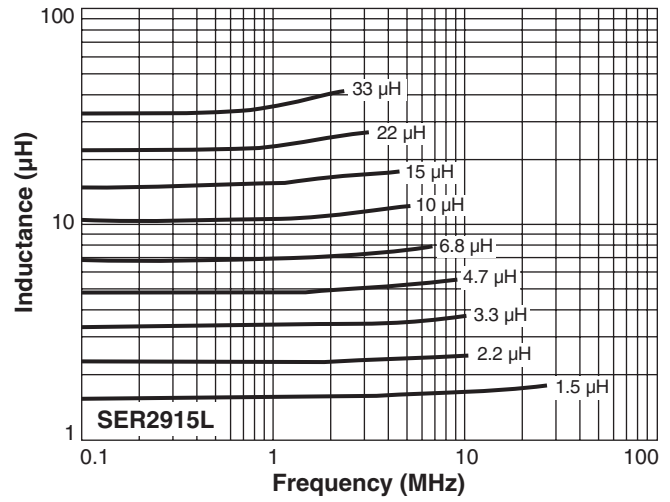
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## L vs Current



## L vs Frequency



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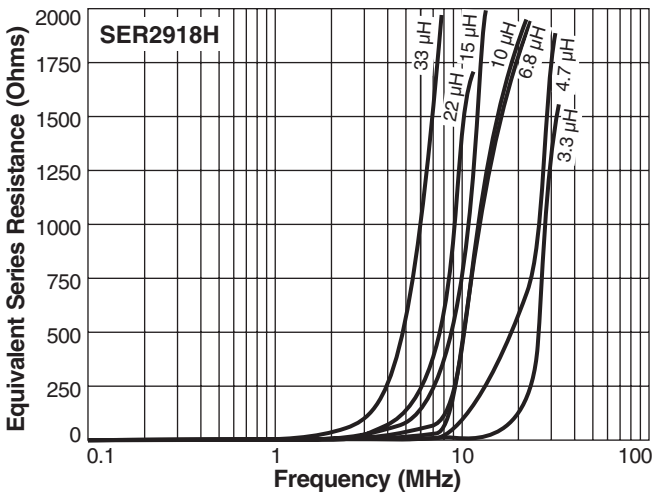
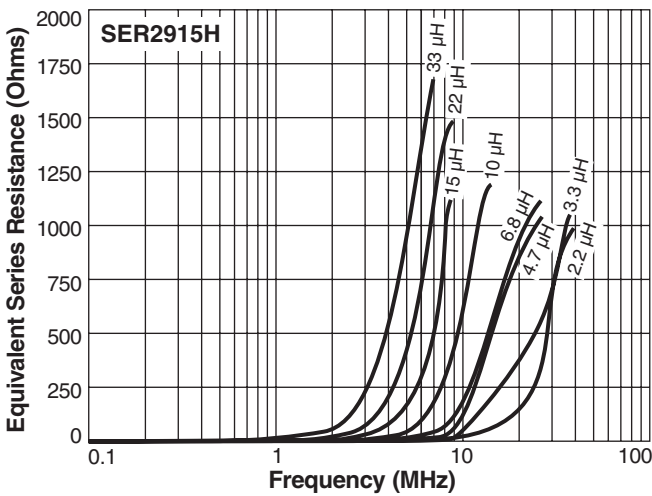
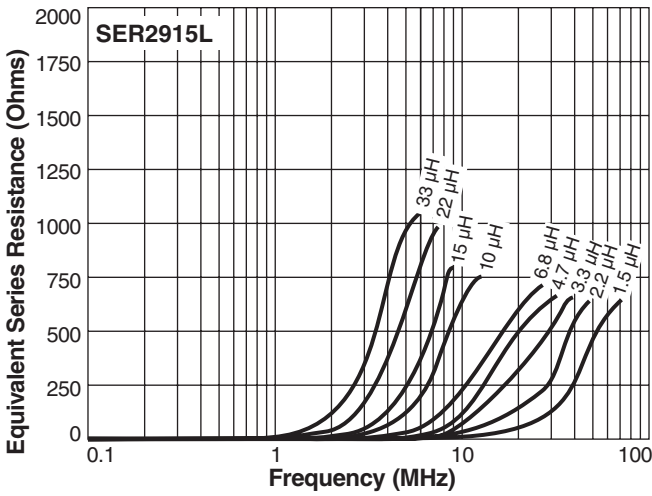
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# SMT Power Inductors - SER2900 Series

## ESR vs Frequency



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