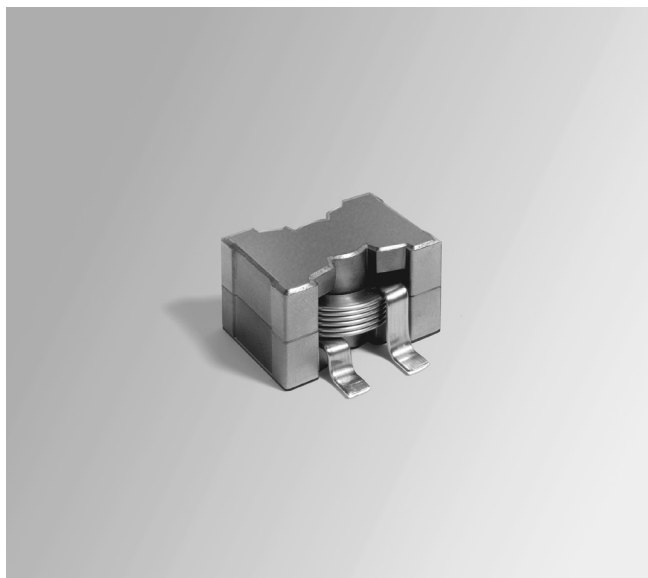




Shielded Power Inductors - SER2900



- 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-28.5g; SER2915H-29.7g; SER2918H-35.7 g

Ambient temperature -40°C to +85°C with Irms current, +85°C to +125°C with derated current

Storage temperature Component: -40°C to +125°C.
Tray 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 Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Inductance ² ±10% (μH)	DCR ³ (mOhms)		SRF typ ⁴ (MHz)	Isat (A) ⁵			Irms (A) ⁶	
		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 Vrms, 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 4395A network analyzer and an Agilent/HP 16092A 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 Irms, Isat is the more critical specification.
6. Current that causes the specified temperature rise from 25°C ambient. When Irms is greater than Isat, Isat is the more critical specification, and Irms 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.



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

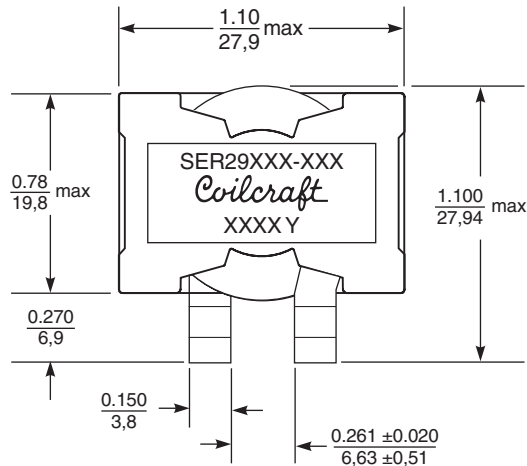
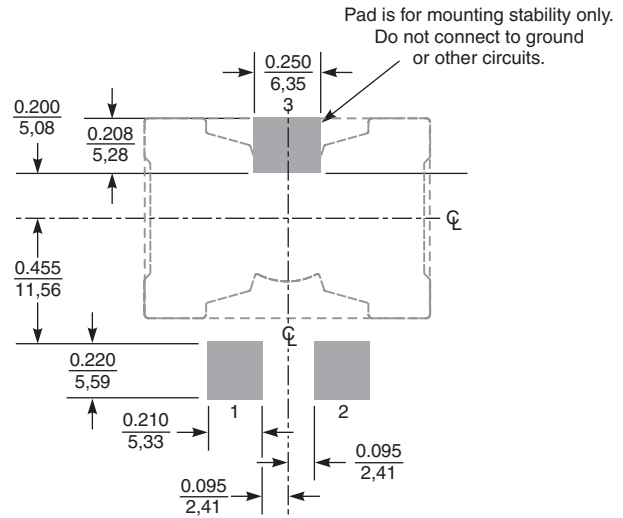
Document 644-1 Revised 08/28/14

© Coilcraft Inc. 2015

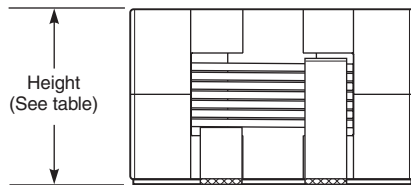
This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



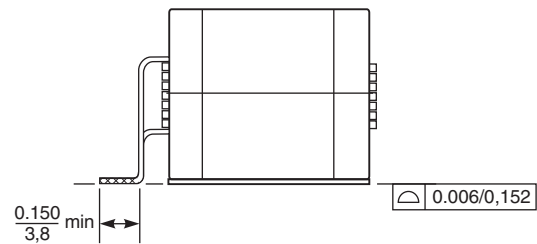
Shielded Power Inductors - SER2900 Series



Recommended Land Pattern

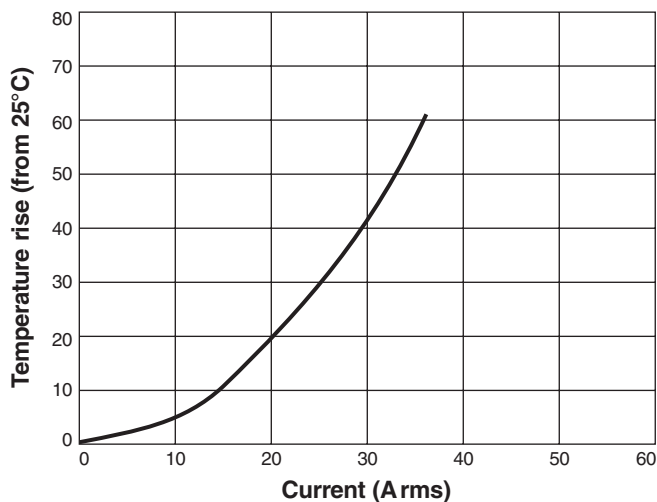


	Maximum height
SER2915L	0.605 / 15,36
SER2915H	0.605 / 15,36
SER2918H	0.700 / 17,78

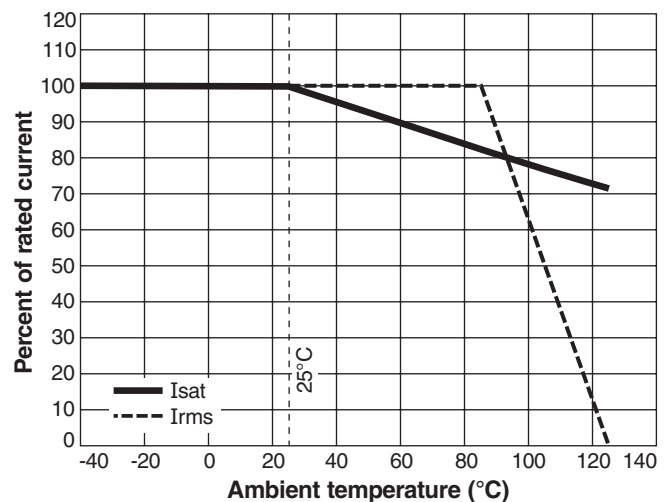


Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Temperature Rise vs Current



Current Derating



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 644-2 Revised 08/28/14

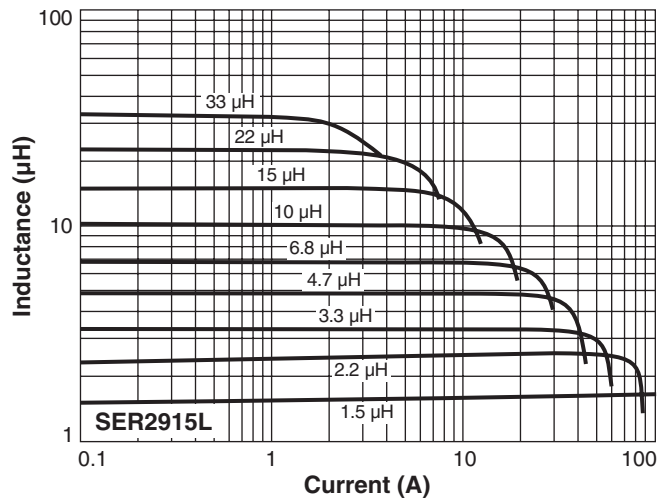
© Coilcraft Inc. 2015

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

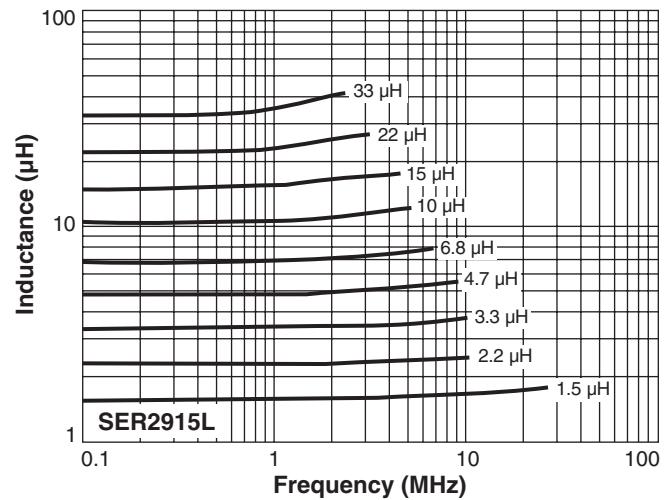
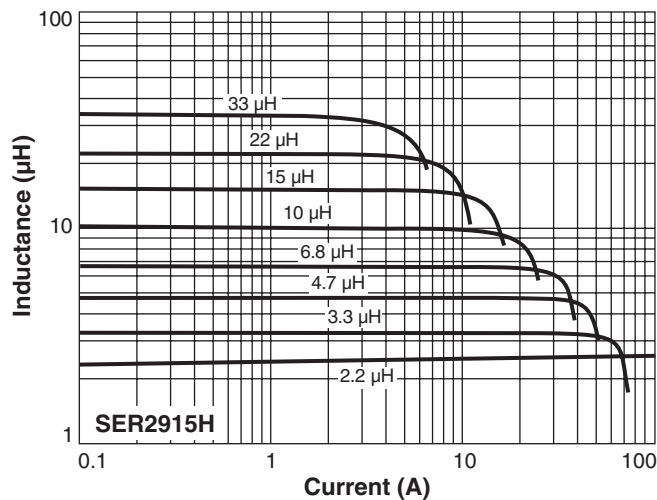
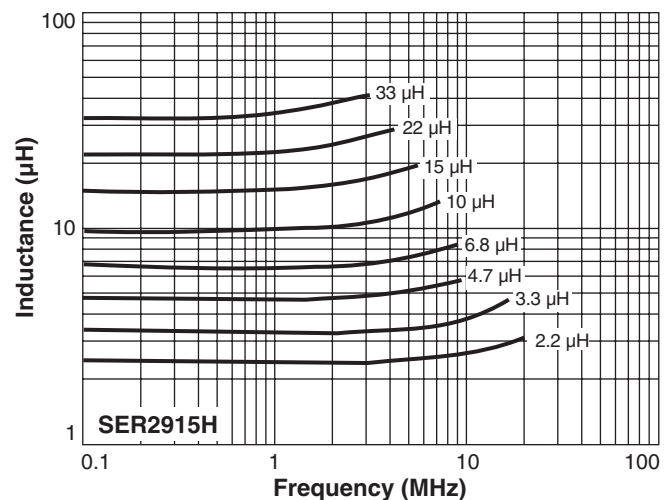
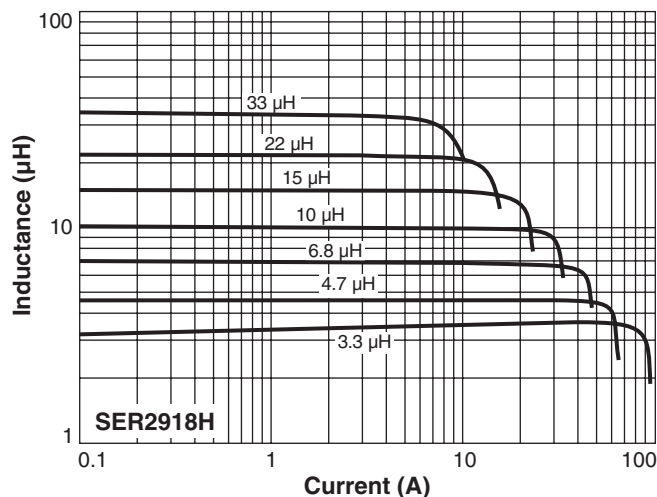
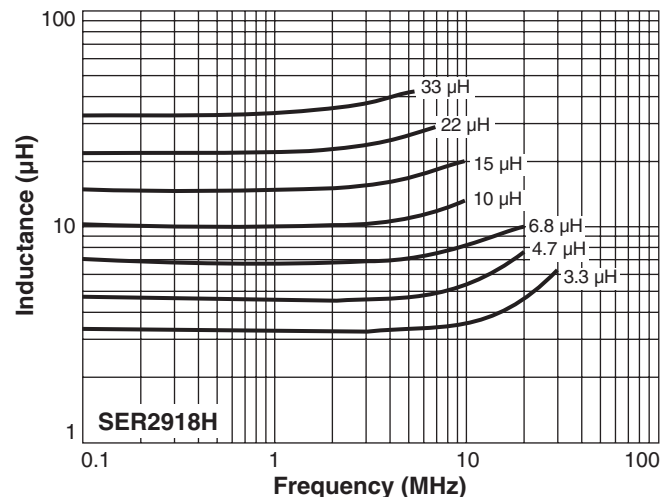


Shielded Power Inductors - SER2900 Series

L vs Current



L vs Frequency



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore +65-6484 8412 sales@coilcraft.com.sg

Document 644-3 Revised 08/28/14

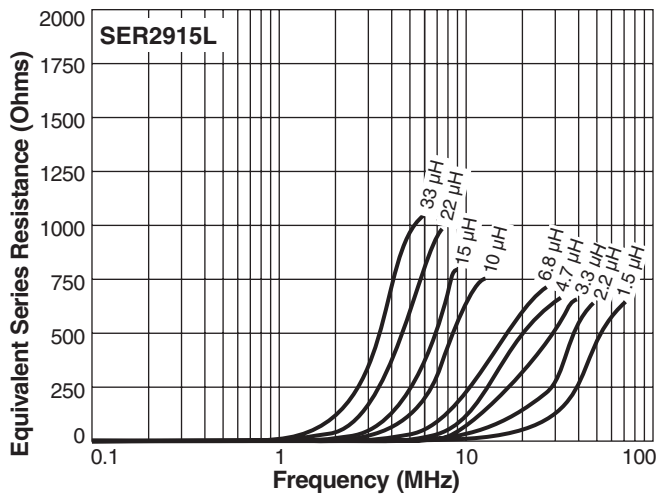
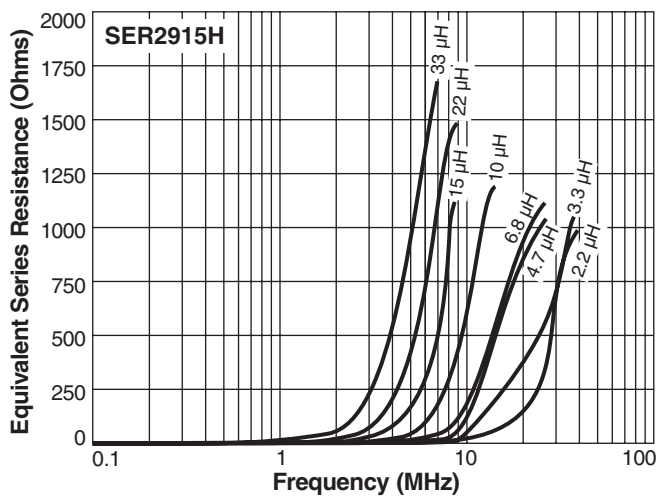
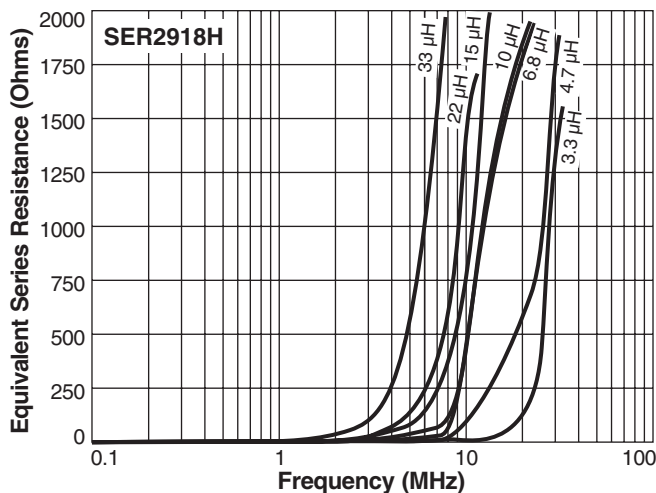
© Coilcraft Inc. 2015

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



Shielded Power Inductors - SER2900 Series

ESR vs Frequency



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 644-4 Revised 08/28/14

© Coilcraft Inc. 2015

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.