

SER2900 Series High Current Shielded Power Inductors



- Improved version of the **SER2800** series with a third mounting pad for **greater stability** and **board adhesion**
- Designed for **high current**, **low voltage** power supplies
- Saturation **current ratings** over **100 Amps**
- Flat wire windings provide **exceptionally low DC resistance**
- **AEC-Q200** Grade 3 (−40°C to +85°C)
- **RoHS-compliant**. 260°C compatible. Tin-silver over copper terminations (leads); Gold over nickel over phos bronze (base pad)

 Photo

 Pricing

 PDF data sheet

SPECIFICATIONS

 **L vs Frequency**

 **L vs Current**

 **Core loss**


 **ESR vs Frequency**

 **Temperature vs Current**

 **Dimensions**

 **3D models**

Part number <i>Click to get parts</i>	L ±10% ¹ (µH)	DCR(mOhms) ²		SRF typ ³ (MHz)	Isat (A) ⁴			Irms (A) ⁵	
		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

Design Support Tools 

Power Magnetics Tools ▼

RF Inductor Tools ▼

New! CM Choke Finder

New! LC Filter Designer

IC / Inductor Match Tool

Application Notes

Other Resources ▼

Designer's Kits ▼

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 Inductance measured at 500 kHz, 0.1 Vrms, using an Agilent/HP 4284A LCR meter or equivalent.
- 2 DCR measured at 25°C on a Keithley 580 micro-ohmmeter or equivalent. For other operating temperatures, use this [DCR at Temperature](#) calculator.
- 3 SRF measured using an Agilent/HP 4395A network analyzer and an Agilent/HP 16092A test fixture. [Details](#)
- 4 Isat: DC current at 25°C that causes the specified inductance drop from its value without current. [Temperature derating curves](#).
- 5 Irms: Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. [Temperature derating curves](#). When Irms is greater than Isat, Isat is the more critical specification and Irms is shown in gray type. [See temperature rise vs Current](#).
- 6 **Ambient temperature range:** -40°C to +85°C with (40°C rise) Irms [Derating curves](#)
- 7 **Storage temperature range:** Component: -40°C to +125°C
Packaging trays: -40°C to +80°C
- 8 **Resistance to soldering heat:** Three reflows at >217°C for 90 seconds (+260°C ±5°C for 20 – 40 seconds), allowing parts to cool to room temperature between.
- 9 Electrical specifications at 25°C.

Refer to [Soldering Coilcraft Components](#) before soldering.

PCB washing: Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. [More info](#).

