



Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.15 to 47 μ H
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

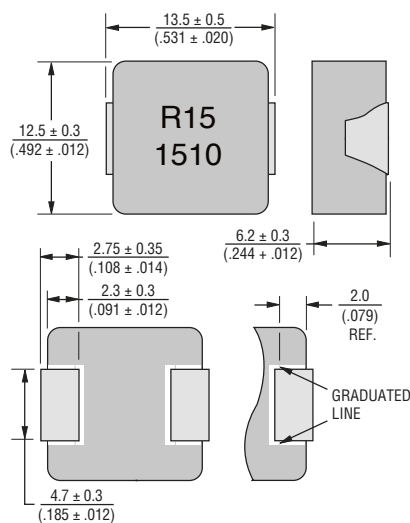
SRP1265A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

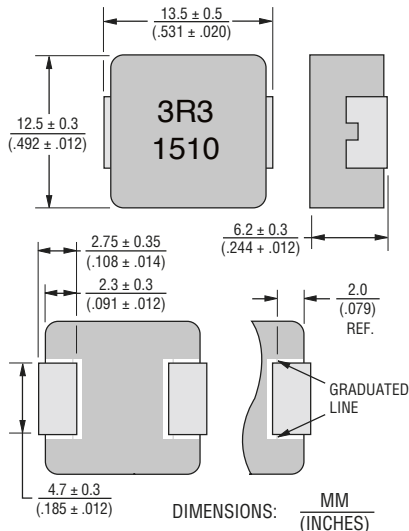
Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Min.) @100 KHz / 1 V	SRF (MHz) Typ.	DCR (m Ω) Typ.	DCR (m Ω) Max.	I _{rms} (A)	Isat (A)	Terminal Type
	L (μ H)	Tol. (%)							
SRP1265A-R15M	0.15	20	10	210	0.49	0.6	55	118	Non-Lead Frame
SRP1265A-R22M	0.22	20	10	130	0.49	0.6	53	112	
SRP1265A-R33M	0.33	20	10	90	0.65	0.8	46	68	
SRP1265A-R36M	0.36	20	10	80	0.7	0.9	45	66	
SRP1265A-R47M	0.47	20	10	75	0.9	1.2	41	63	
SRP1265A-R56M	0.56	20	10	65	1.05	1.2	37	58	
SRP1265A-R68M	0.68	20	15	50	1.25	1.5	35	55	Lead Frame
SRP1265A-R82M	0.82	20	15	50	1.5	1.9	33	50	
SRP1265A-1R0M	1.0	20	20	45	1.7	2.3	30	48	
SRP1265A-1R5M	1.5	20	20	30	2.5	3.0	27	45	
SRP1265A-1R8M	1.8	20	20	30	3.6	4.0	24	40	
SRP1265A-2R2M	2.2	20	20	23	3.8	4.2	22	40	
SRP1265A-3R3M	3.3	20	20	20	5.7	6.8	18	30	
SRP1265A-4R7M	4.7	20	20	17	7	8.4	13.5	28	
SRP1265A-5R6M	5.6	20	20	15	8.5	10.0	12.5	23	
SRP1265A-6R0M	6.0	20	20	14	8.5	10.0	12.0	23	
SRP1265A-6R8M	6.8	20	20	13	9.5	11.5	11.5	18	
SRP1265A-8R2M	8.2	20	20	11	12	15.5	10.5	16	
SRP1265A-100M	10	20	20	10	13.2	16.5	10	15.5	
SRP1265A-150M	15	20	20	7	23.2	28.0	9	12.5	
SRP1265A-220M	22	20	20	6	32.5	37.0	9	12	
SRP1265A-330M	33	20	20	5	48	58.0	8	11	
SRP1265A-470M	47	20	20	4	76	90.0	6.5	9.5	

Product Dimensions

Non-Lead Frame Terminal



Lead Frame Terminal



General Specifications

Test Voltage 1.0 V
 Test Frequency 100 KHz
 Operating Temperature -40 °C to +150 °C
 (Temperature rise included)
 Storage Temperature -40 °C to +125 °C
 Rated Current Inductance drops 20 % at Isat
 Temperature Rise 40 °C at rated I_{rms}
 Resistance to Soldering Heat +260 °C, 40 sec. max.
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

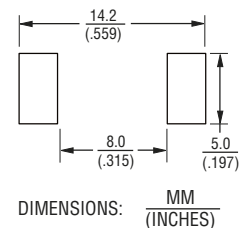
Core Carbonyl powder
 Wire Enameled copper
 Terminal Finish Sn
 Packaging 500 pcs. per 13-inch reel

How to Order

SRP1265A - 100M

Model
 Value Code (see table)

Recommended Layout



Please consult [Bourns® Model SRP-A Series Visual Inspection Guide](#) for detailed construction, processing and testing information.



WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

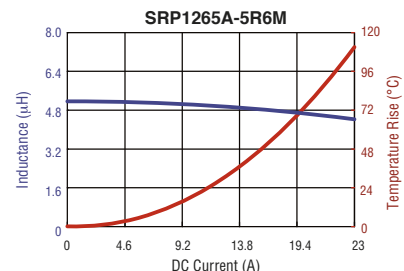
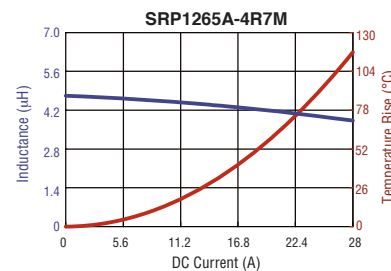
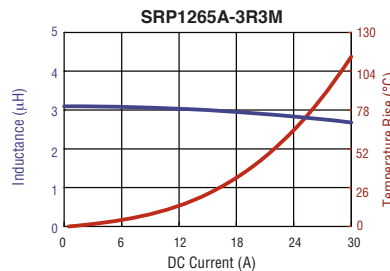
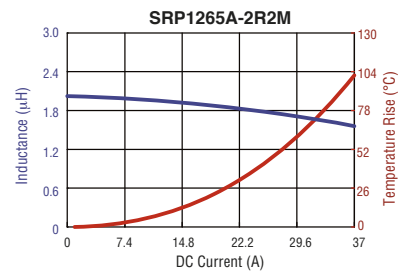
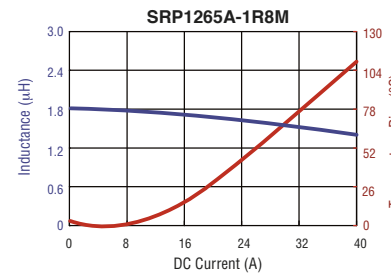
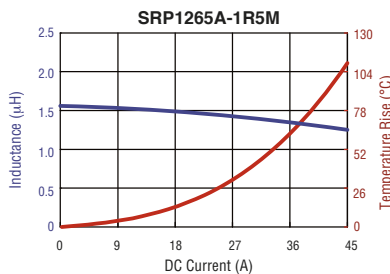
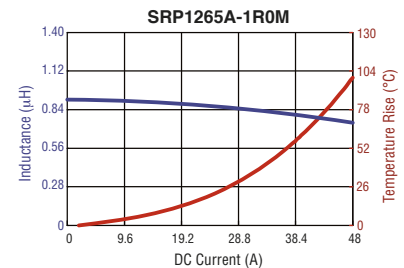
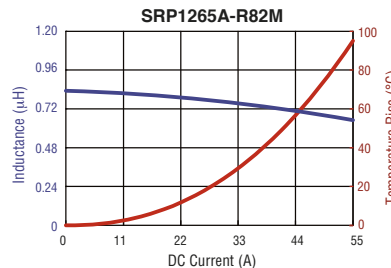
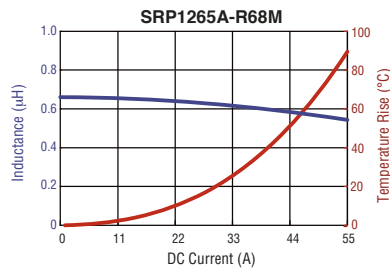
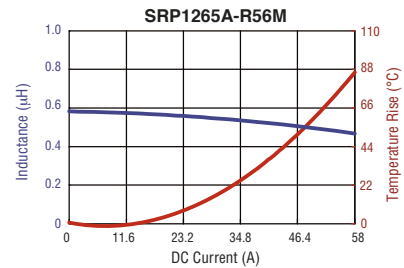
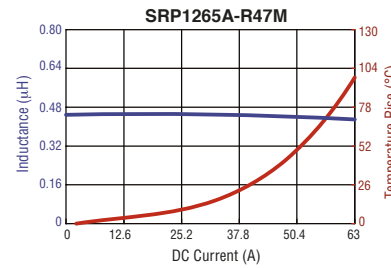
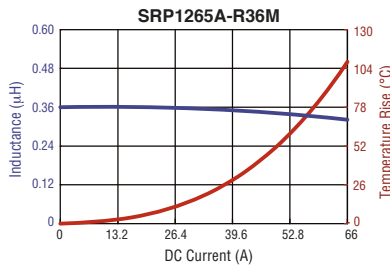
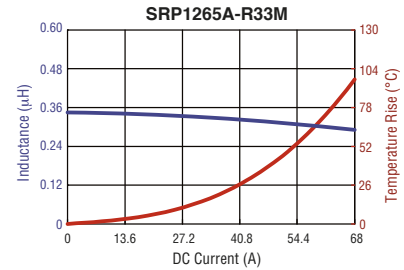
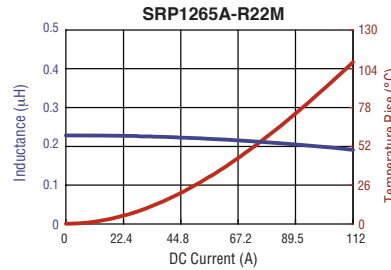
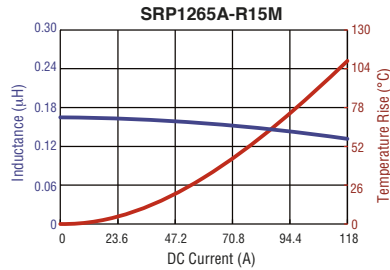
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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SRP1265A Series - Shielded Power Inductors

BOURNS®

L vs. I Charts



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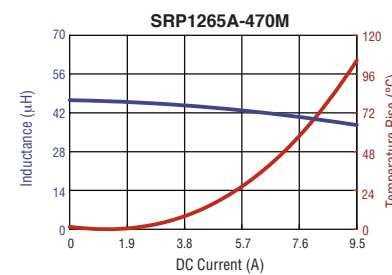
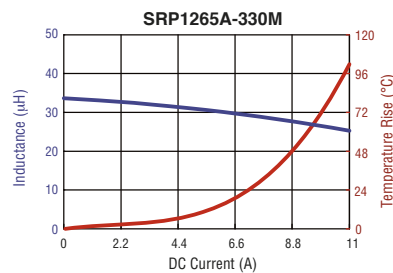
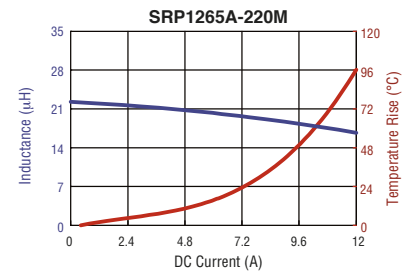
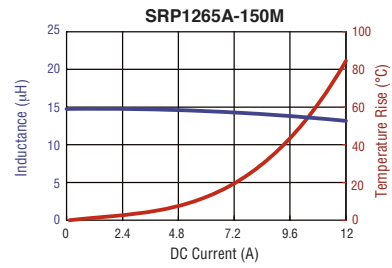
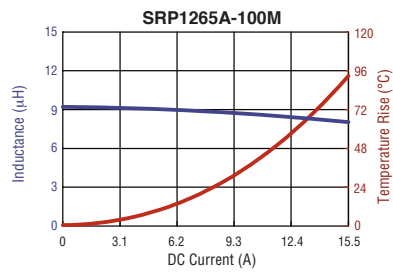
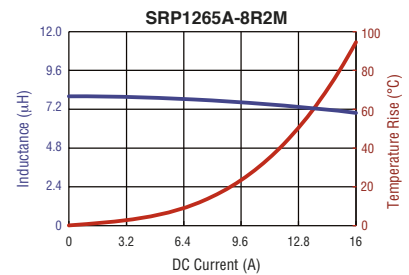
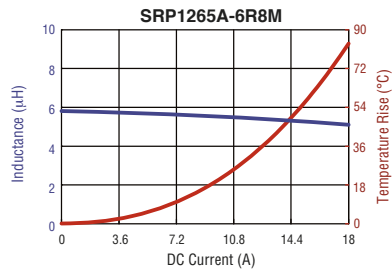
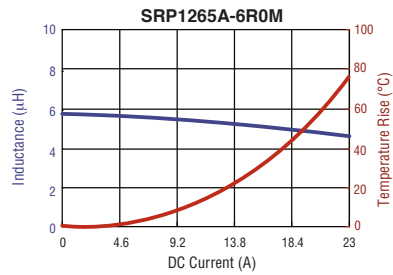
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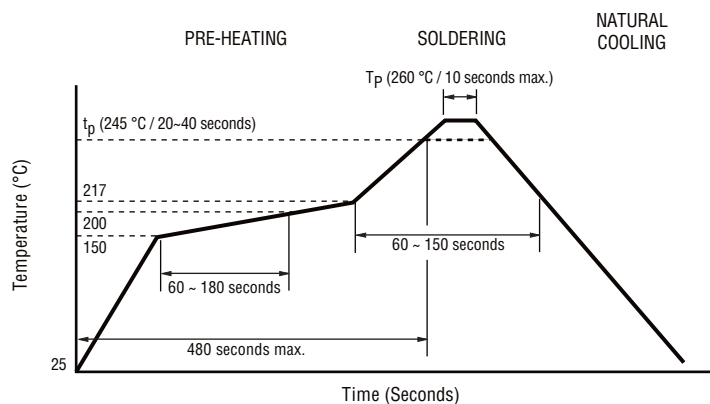
SRP1265A Series - Shielded Power Inductors

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L vs. I Charts (Continued)

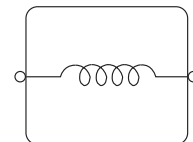


Soldering Profile



REFLOW TIMES: 3 MAX.

Electrical Schematic



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Technical drawing of a 24-hole punched metal strip, showing three views: top, side, and end view. The drawing includes dimensions in inches and millimeters.

Top View Dimensions:

- Overall Width: 330 (12.99) DIA.
- Inner Hole Diameter: 2.0 ± 0.5 (.079 ± .020)
- Outer Hole Diameter: 13.5 ± 0.5 (.531 ± .020) DIA.
- Distance from Center to First Hole: 13.5 ± 0.5 (.531 ± .020)
- Distance between Holes: 100.0 ± 2.0 (3.937 ± .079)
- Distance from Last Hole to Edge: 24.0 ± 0.5 (.945 ± .020)

Side View Dimensions:

- Thickness: 0.10 (.004) MAX.
- EMBOSS CAVITY
- EMBOSS CARRIER
- 24 (.945)

End View Dimensions:

- Overall Length: 24.0 ± 0.3 (.945 ± .012)
- Distance from Edge to First Hole: 1.75 (.069)
- Distance between Holes: 4.0 (.157)
- Distance from Last Hole to Edge: 2.0 (.079)
- Hole Diameter: 1.5 ± 0.1 (.059 ± .004) DIA.
- Distance from Edge to Last Hole: 0.35 ± 0.05 (.014 ± .002)
- Distance from Edge to First Hole: 13.0 ± 0.1 (.512 ± .004)
- Distance from Edge to Last Hole: 14.2 ± 0.1 (.559 ± .004)
- Distance between Holes: 16.0 ± 0.1 (.630 ± .004)
- Distance from Edge to First Hole: 7.0 ± 0.1 (.276 ± .004)
- Distance from Edge to Last Hole: 13.0 ± 0.1 (.512 ± .004)
- Angle: 3°

USER DIRECTION OF FEED

QTY: 500 PCS. PER REEL

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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