

Features

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

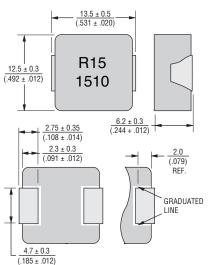
SRP1265A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

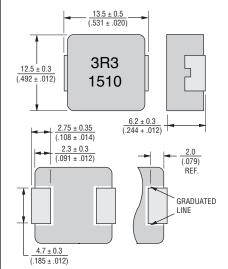
Bourns Port Number	Inductance @ 100 KHz /1 V		Q (Min.) @100 KHz	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms	Isat	Terminal
Part Number	L (μΗ)	Tol. (%)	/1 V	`Typ.´	Тур.	Max.	(A)	(A)	Туре
SRP1265A-R15M	0.15	20	10	210	0.49	0.6	55	118	Non- Lead Frame
SRP1265A-R22M	0.22	20	10	130	0.49	0.6	53	112	
SRP1265A-R33M	0.33	20	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	30	50	1.3	1.5	35	55	Lead Frame
SRP1265A-R82M	0.82	20	30	43	1.6	1.9	33	50	
SRP1265A-1R0M	1.0	20	30	34	2.0	2.3	30	48	
SRP1265A-1R5M	1.5	20	30	30	2.7	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	İ

Product Dimensions

Non-Lead Frame Terminal



Lead Frame Terminal



General Specifications

Test voltage
Test Frequency100 KHz
Operating Temperature
55 °C to +150 °C
(Temperature rise included)
O. T

Storage Temperature-55 °C to +150 °C

Rated Current

Toot Voltage

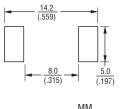
1 Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

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

How to Order

Recommended Layout



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

Please consult <u>Bourns® Model SRP-A.</u> <u>Series Visual Inspection Guide</u> for detailed construction, processing and testing information.

Users should verify actual device performance in their specific applications.

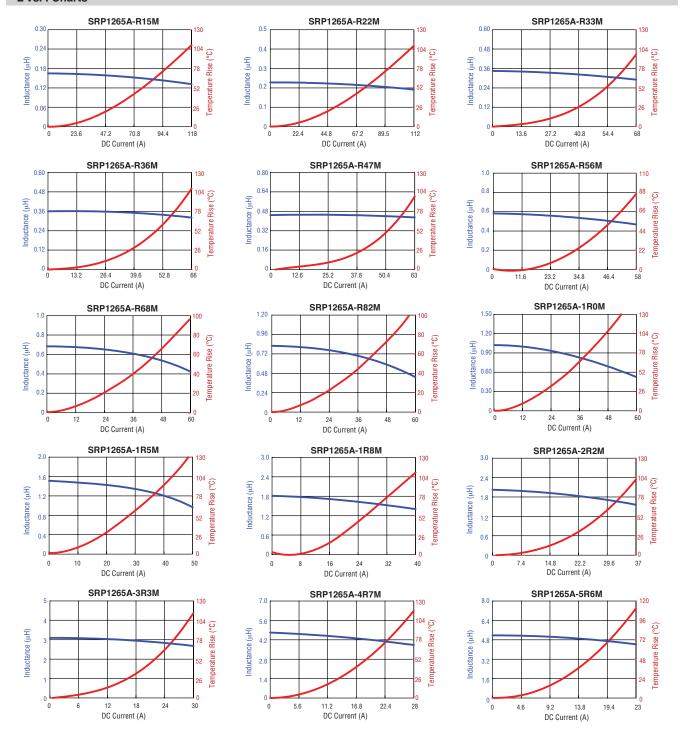
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^{*} RoHS Directive 2015/863, Mar 31, 2015 and Annex.

^{**}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. Specifications are subject to change without notice.

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L vs. I Charts



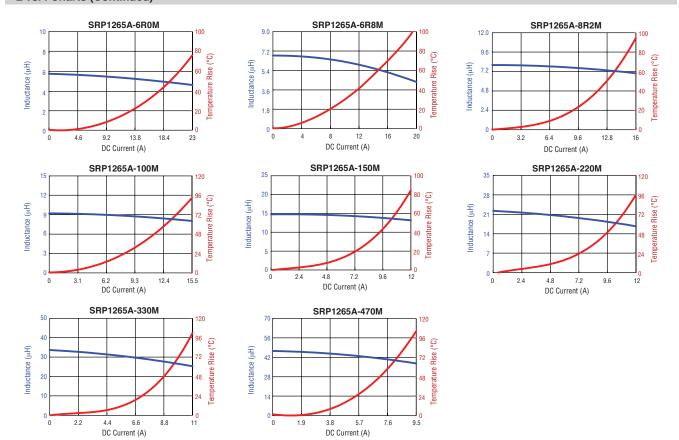
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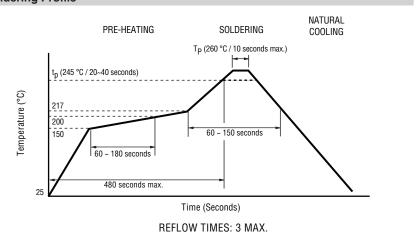
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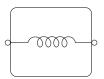
L vs. I Charts (Continued)



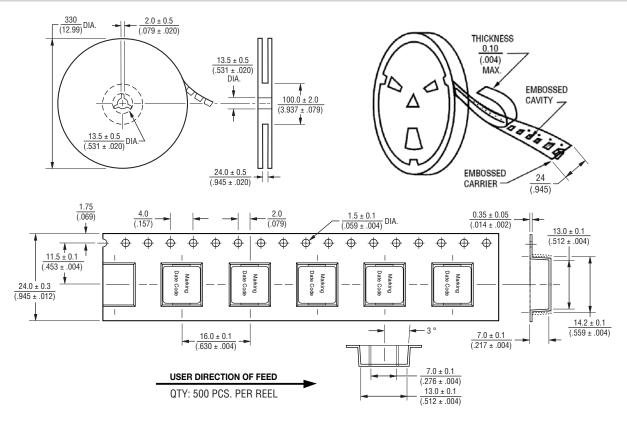
Soldering Profile



Electrical Schematic



Packaging Specifications



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

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