



Features

- Shielded construction for low radiation
- Metal alloy powder core for high saturation current
- Wide side terminal for enhanced mechanical strength
- High vibration resistance (15 G typical, 30 G peak)

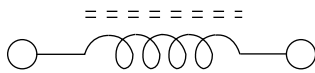
- High operating temperature
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP1265WA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 1 V		Q Typ. @ 100 kHz	SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	Irms (A) Typ.	Isat (A) Typ.
	L (μH)	Tol. %						
SRP1265WA-R68M	0.68	20	20	48	1.35	1.62	36.5	36.5
SRP1265WA-1R0M	1.0	20	20	39	1.75	2.1	32	32
SRP1265WA-1R5M	1.5	20	20	30	2.3	2.76	27	29
SRP1265WA-2R2M	2.2	20	20	25	3.6	4.2	23	26
SRP1265WA-3R3M	3.3	20	20	19	5.9	6.8	19	24
SRP1265WA-4R7M	4.7	20	20	16	7.3	8.4	17	20
SRP1265WA-5R6M	5.6	20	20	14	9.1	10	15	18
SRP1265WA-6R8M	6.8	20	20	13	9.7	11.2	14	17
SRP1265WA-8R2M	8.2	20	20	11	11.8	13.6	13	16
SRP1265WA-100M	10	20	20	10	14.3	16.5	12	13.5
SRP1265WA-150M	15	20	20	8	23.6	27.2	9.0	10
SRP1265WA-220M	22	20	20	7	34.1	39.2	7.5	8.0
SRP1265WA-330M	33	20	20	6	53	61	6.3	7.2
SRP1265WA-470M	47	20	20	5	74.1	89	5.2	6.0

Electrical Schematic



How to Order

SRP1265WA - 1R0M

Model _____
 Value Code (see table) _____

Additional Information

Click these links for more information:



[PRODUCT SELECTOR](#) [TECHNICAL LIBRARY](#) [INVENTORY](#) [SAMPLES](#) [CONTACT](#)

General Specifications

Operating Temperature

..... -55 °C to +165 °C
 (Temperature rise included)

Storage Temperature (Component)

..... -55 °C to +165 °C

Temperature Rise ... 40 °C at rated Irms¹ Rated Current

..... Inductance drops 30 % at Isat

Moisture Sensitivity Level..... 1

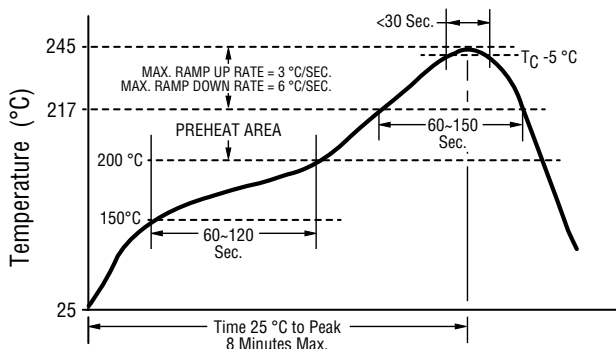
ESD Classification (HBM)..... N/A

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

Soldering Profile



Profile Feature	Pb Free Assembly
Preheat	
- Temperature Min. (T _{smin})	150 °C
- Temperature Max. (T _{smax})	200 °C
- Time (t _s) from T _{smin} to T _{smax}	60-120 seconds
Ramp-up Rate (T _L to T _p)	3 °C/second max.
Liquidous temperature (T _L)	217 °C
Time (t _L) maintained above T _L	60-150 seconds
Peak package body temperature (T _p)	245 °C
Time within 5 °C of Actual Peak Temperature (t _p)	< 30 seconds
Ramp-Down Rate (T _p to T _L)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.



WARNING Cancer and Reproductive Harm

www.P65Warnings.ca.gov

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

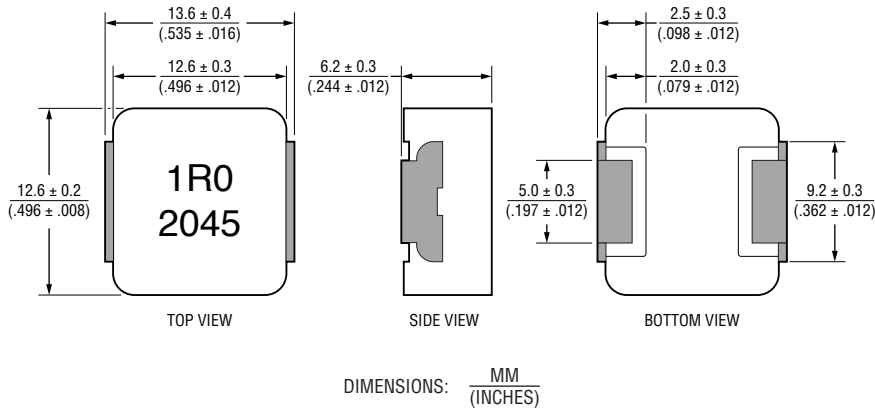
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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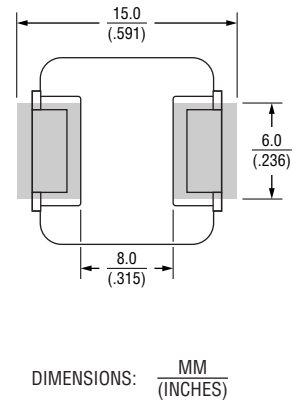
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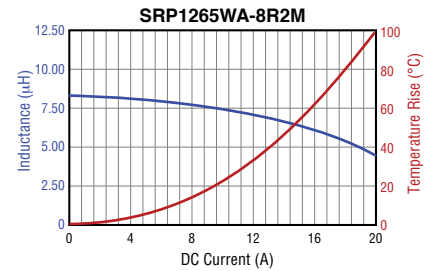
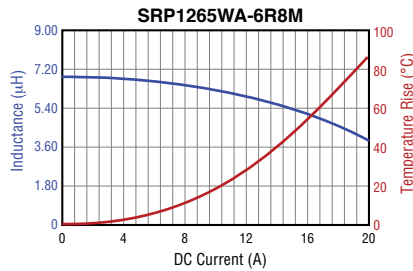
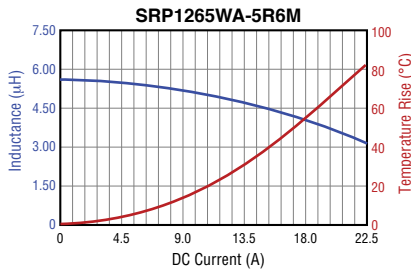
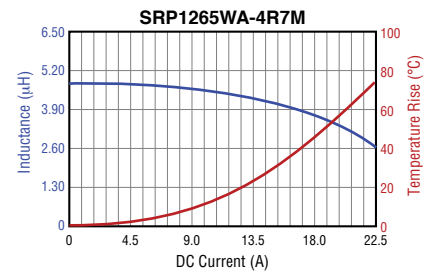
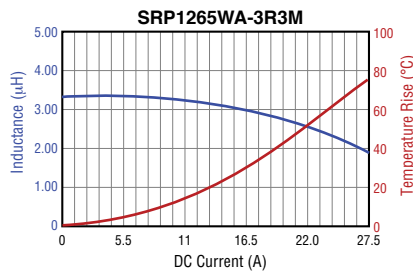
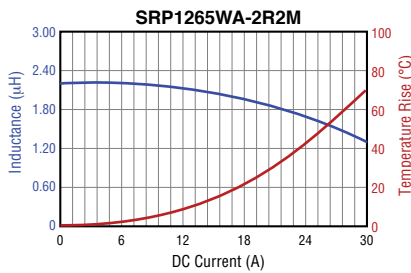
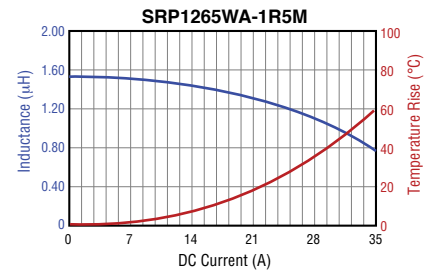
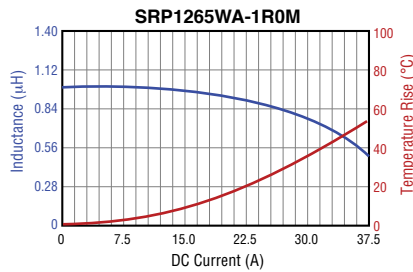
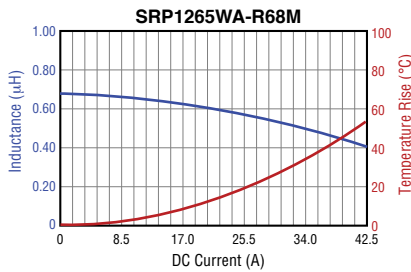
Product Dimensions



Recommended Layout



L vs. I Charts



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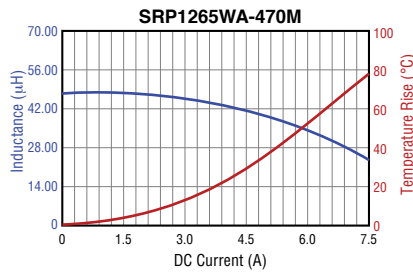
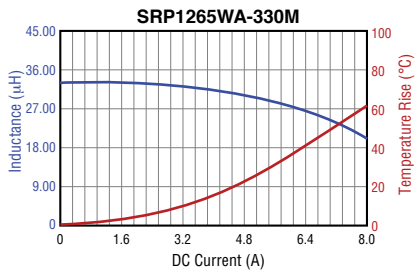
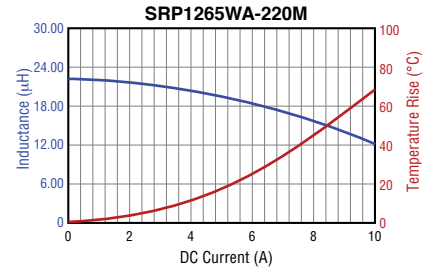
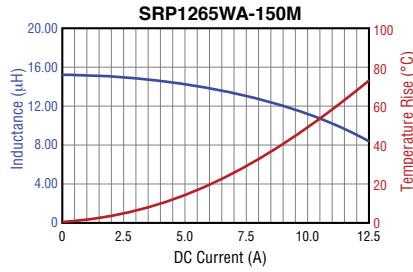
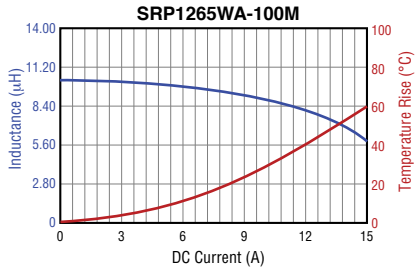
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L vs. I Charts (continued)



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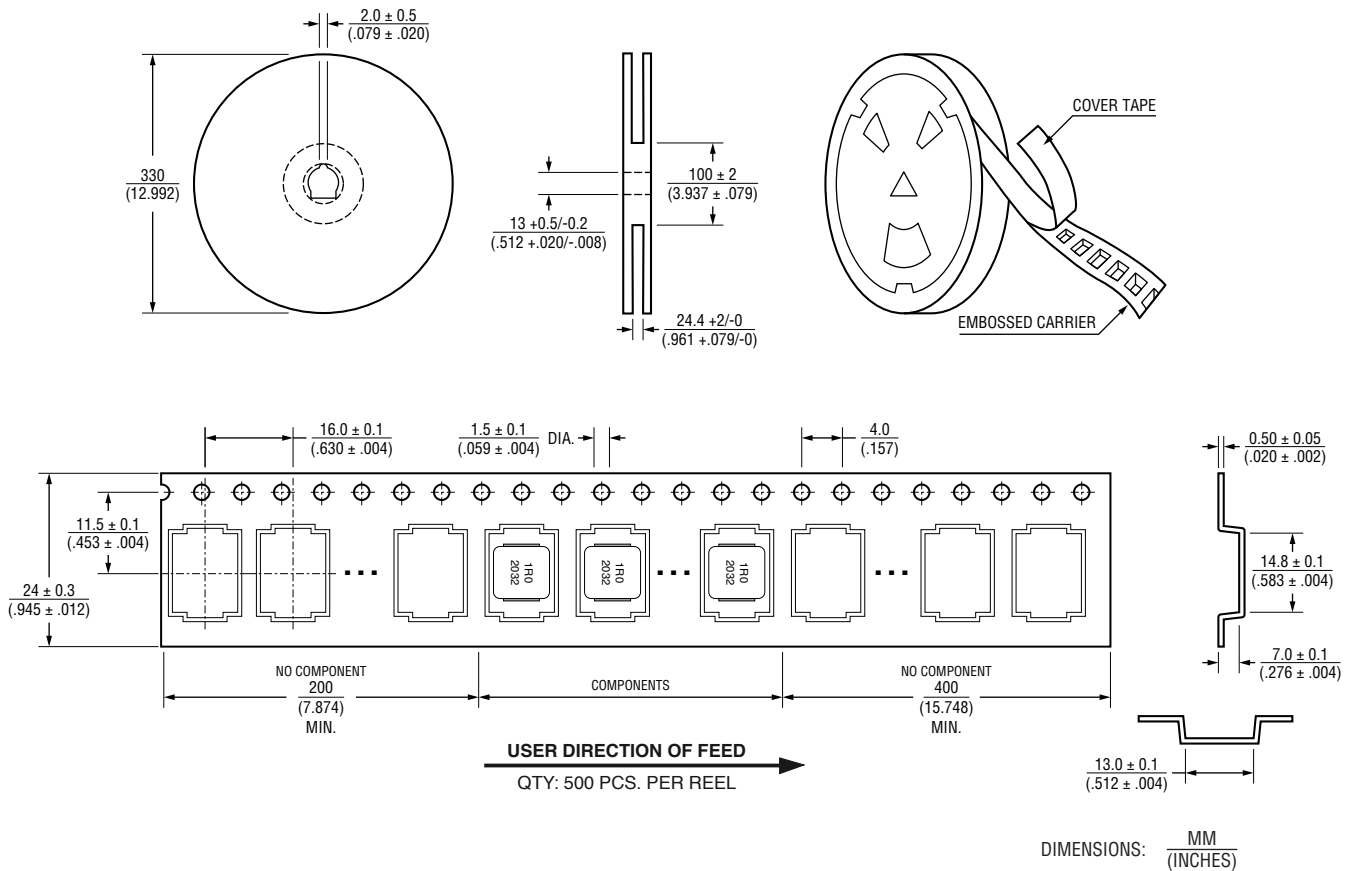
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Packaging Specifications



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