

Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Low radiation
- Low buzz noise
- RoHS compliant* and halogen free**

SRP1265CC Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 1 V		Q Min.	SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	I _{rms} (A) Typ.	I _{sat} (A) Typ.	Terminal Type
	L (μH)	Tol. %							
SRP1265CC-R22M	0.22	20	10	130	0.47	0.6	55	105	Non-Lead Frame
SRP1265CC-R33M	0.33	20	10	90	0.65	0.8	50	70	
SRP1265CC-R47M	0.47	20	10	75	0.9	1.2	45	66	
SRP1265CC-R68M	0.68	20	15	50	1.25	1.5	41	58	
SRP1265CC-1R0M	1.00	20	20	45	1.7	2.3	35	50	
SRP1265CC-1R5M	1.50	20	20	30	2.3	2.8	31	45	
SRP1265CC-2R2M	2.20	20	20	23	4.2	4.8	25	40	Lead Frame
SRP1265CC-3R3M	3.30	20	20	20	5.7	6.8	22	35	
SRP1265CC-4R7M	4.70	20	20	17	8.3	9.5	20	31	
SRP1265CC-6R8M	6.80	20	20	13	11.5	13.2	15	25	
SRP1265CC-8R2M	8.20	20	20	11	13	15.5	13	22	
SRP1265CC-100M	10.00	20	20	10	15.6	18	12	20	
SRP1265CC-150M	15.00	20	20	7	23.2	28	11	13.5	
SRP1265CC-220M	22.00	20	20	6	32.5	37	10	12	
SRP1265CC-330M	33.00	20	20	5	46	56	8	9	

Additional Information

Click these links for more information:



General Specifications

Operating Temperature -40 °C to +125 °C
(Temperature rise included)

Storage Temperature (Component) -40 °C to +125 °C

Temperature Rise 40 °C at rated I_{rms}¹

Rated Current Inductance drops 30 % at I_{sat}

Moisture Sensitivity Level 1

ESD Classification (HBM) N/A

¹Circuit 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

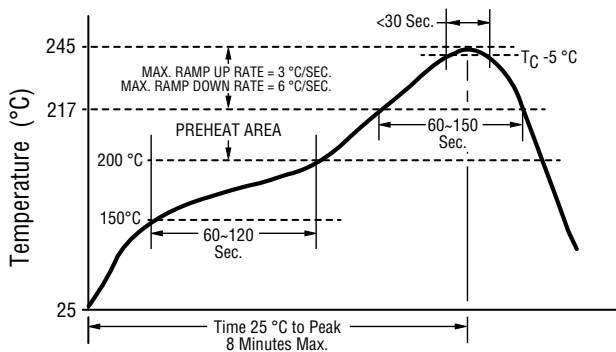
Core Carbonyl powder

Wire Enameled copper

Terminal Finish Sn

Packaging 500 pcs. per 13-inch reel

Soldering Profile



REFLOW TIMES: 3 TIMES MAX.

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.

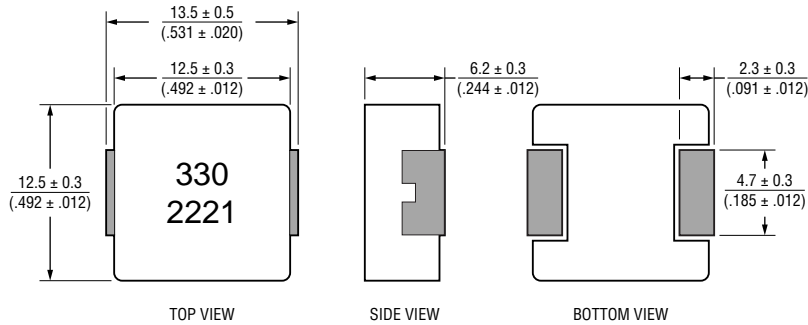
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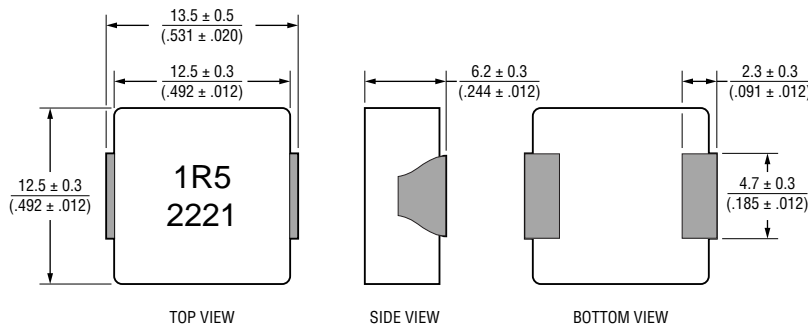
BOURNS®

Product Dimensions

Lead Frame Terminal

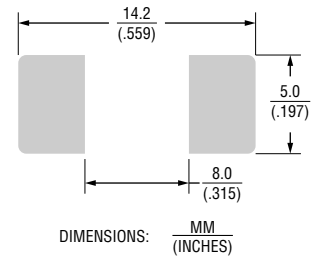


Non-Lead Frame Terminal

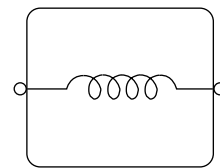


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Recommended Layout



Electrical Schematic



How to Order

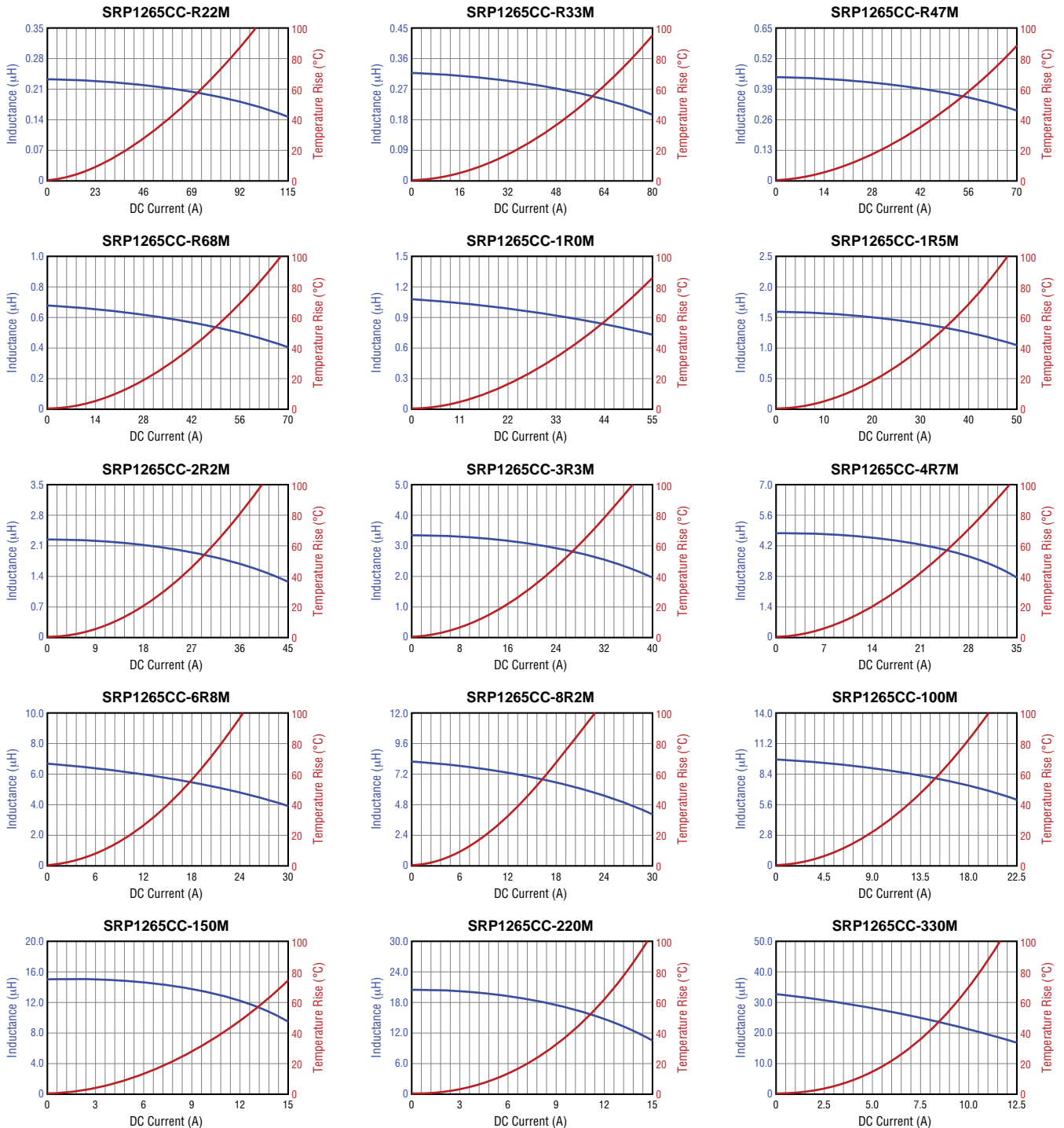
SRP1265CC - R22M

Model _____
Value Code (see table) _____

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L vs. IDC and Temperature vs. IDC Curves

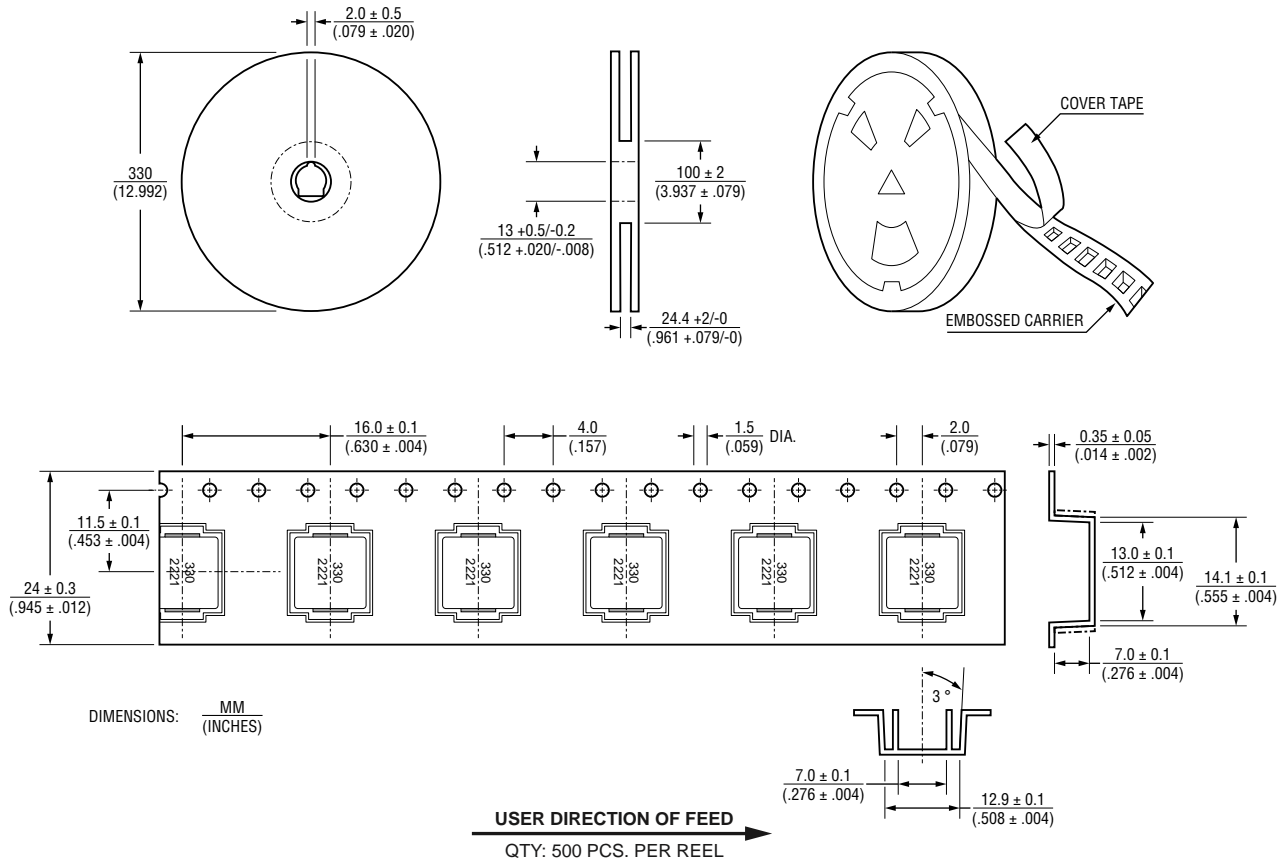


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Packaging Specifications



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REV. 07/23

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