

Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Inductance range: 0.22 to 33 µH
- RoHS compliant* and halogen free**

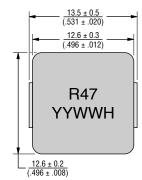
SRP1265C Series - Shielded Power Inductors

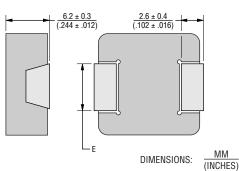
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		Q (Min.)	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	lsat (A)	Terminal
	L (µH)	Tol. (%)	@100 kHz	Typ.	Typ.	Max.	(~) Тур.	Тур.	Туре
SRP1265C-R22M	0.22	20	10	98	0.47	0.6	55	105	non- leadframe
SRP1265C-R33M	0.33	20	10	72	0.65	0.8	50	70	
SRP1265C-R47M	0.47	20	20	62	0.9	1.2	45	66	
SRP1265C-R68M	0.68	20	20	44	1.25	1.5	41	62	
SRP1265C-1R0M	1.0	20	20	37	1.7	2.3	35	54	
SRP1265C-1R5M	1.5	20	20	28	2.3	2.8	31	46	
SRP1265C-2R2M	2.2	20	20	23	4.2	4.8	25	40	leadframe
SRP1265C-3R3M	3.3	20	20	18	5.7	6.8	22	37	
SRP1265C-4R7M	4.7	20	20	15	8.3	9.5	20	31	
SRP1265C-6R8M	6.8	20	20	14	11.5	13.2	15	25	
SRP1265C-8R2M	8.2	20	20	13	13	15.5	13	22	
SRP1265C-100M	10	20	20	12	15.6	18	12	20	
SRP1265C-150M	15	20	20	10	23.2	28	11	13.5	
SRP1265C-220M	22	20	20	7	32.5	37	10	12	
SRP1265C-330M	33	20	20	5	46	56	8	9	

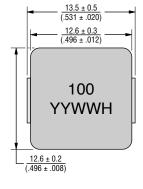
Product Dimensions

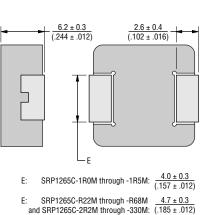
Non-Lead Frame Terminal











WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

General Specifications

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

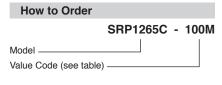
Storage Temperature (Component)-40 °C to +125 °C Rated Current

.....Inductance drops 30 % at Isat Temperature Rise ... 40 °C at rated Irms¹ Moisture Sensitivity Level.......................... ESD Classification (HBM).......N/A

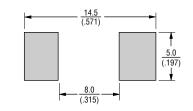
¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all can affect the part temperature. Part temperature should be verified in the end application.

Materials

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



Recommended Layout



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

* 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.

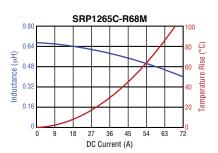
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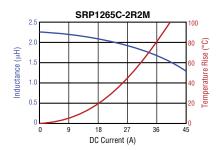
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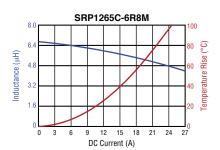
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L vs. I Charts

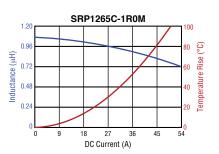


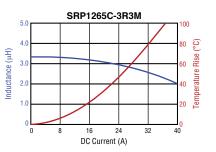




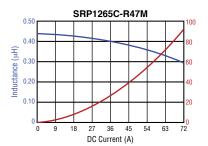


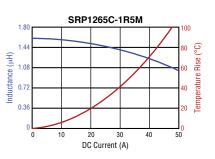


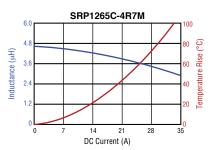


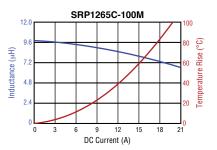












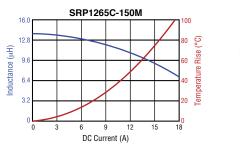
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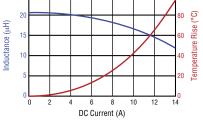
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L vs. I Charts

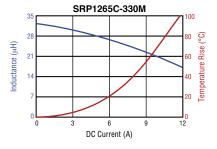




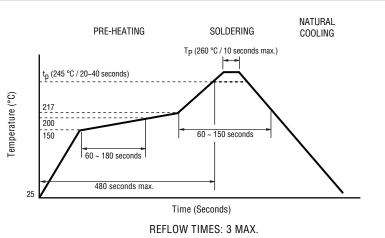
SRP1265C-220M

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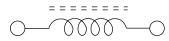
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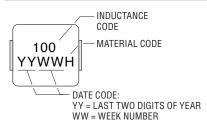
Soldering Profile



Electrical Schematic



Typical Part Marking



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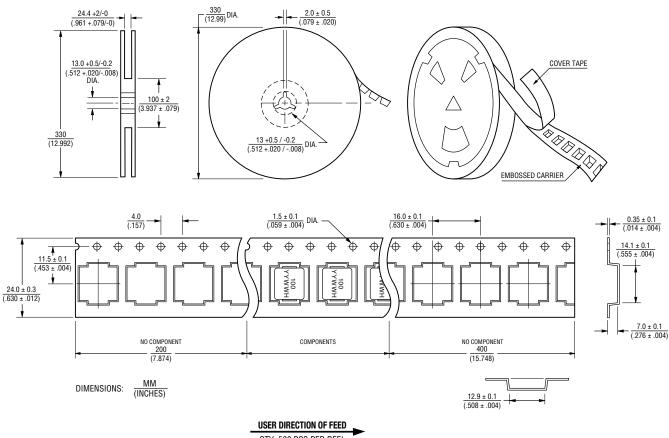
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Packaging Specifications



QTY: 500 PCS PER REEL

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