

Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Inductance range: 0.15 to 22 µH
- RoHS compliant* and halogen free**

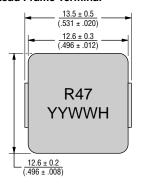
SRP1245C Series - Shielded Power Inductors

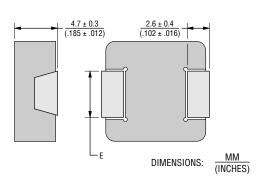
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz /1 V		Q (Min.)	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	Isat (A)	Terminal
	L (μH)	Tol. (%)	@100 kHz	Typ.	Typ.	Max.	Typ.	Typ.	Туре
SRP1245C-R15Y	0.15	30	15	147	0.36	0.41	55	100	non- leadframe
SRP1245C-R22M	0.22	20	15	120	0.5	0.55	48	95	
SRP1245C-R36M	0.36	20	20	100	0.75	0.83	41	80	
SRP1245C-R47M	0.47	20	20	70	0.96	1.15	38	65	
SRP1245C-R68M	0.68	20	20	58	1.4	1.6	32	54	
SRP1245C-1R0M	1.0	20	20	42	2	2.4	30	50	leadframe
SRP1245C-1R5M	1.5	20	20	32	3	3.5	27	48	
SRP1245C-2R2M	2.2	20	20	27	4.3	5	25	40	
SRP1245C-3R3M	3.3	20	20	25	7.3	8.4	20	32	
SRP1245C-4R7M	4.7	20	20	20	11.4	15	14	27	
SRP1245C-6R8M	6.8	20	20	16	14.5	16.7	12	23	
SRP1245C-8R2M	8.2	20	20	13	18.6	21.5	11.5	20	
SRP1245C-100M	10	20	20	10	21.4	25.5	11	17	
SRP1245C-150M	15	20	20	8	32.6	38	9	13	
SRP1245C-220M	22	20	20	6	50	58	7.5	11	

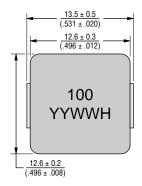
Product Dimensions

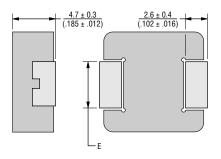
Non-Lead Frame Terminal





Lead Frame Terminal





SRP1245C-R47M through -R68M:

and SRP1245C-1R0M through -2R2M:

SRP1245C-R15Y through -R36M

General Specifications

Operating Temperature

.....-40 °C to +125 °C (Temperature rise included) Storage Temperature .. -40 °C to +125 °C Rated Current

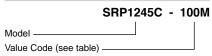
..... Inductance drops 30 % at Isat Temperature Rise ... 40 °C at rated Irms1 Moisture Sensitivity Level.....1 ESD Classification (HBM).....N/A

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.

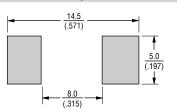
Materials

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

How to Order



Recommended Layout



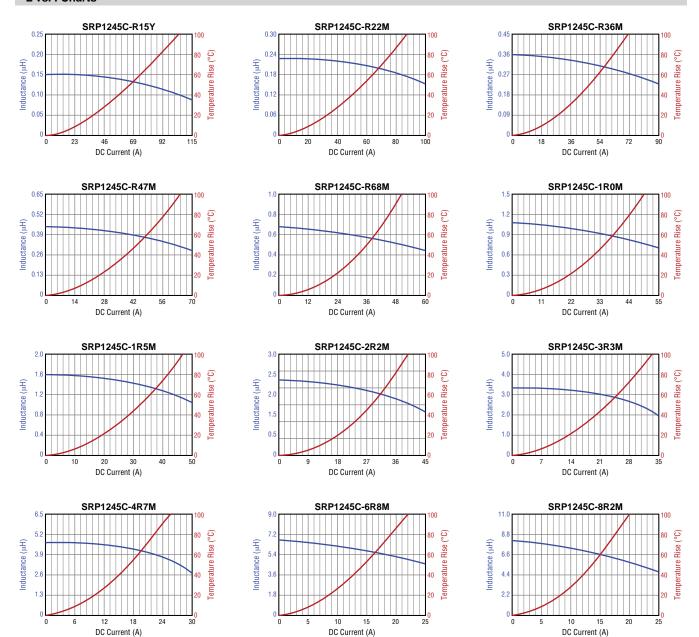
Please consult Bourns® Model SRP-A Series Visual Inspection Guide for detailed construction, processing and testing information.

- 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 (CI) 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. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at

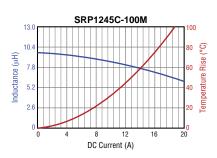
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L vs. I Charts

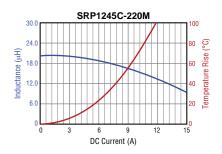


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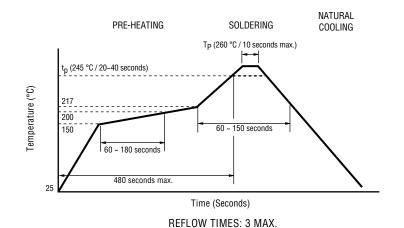
L vs. I Charts



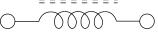




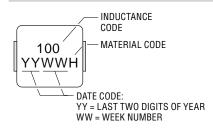
Soldering Profile



Electrical Schematic ======

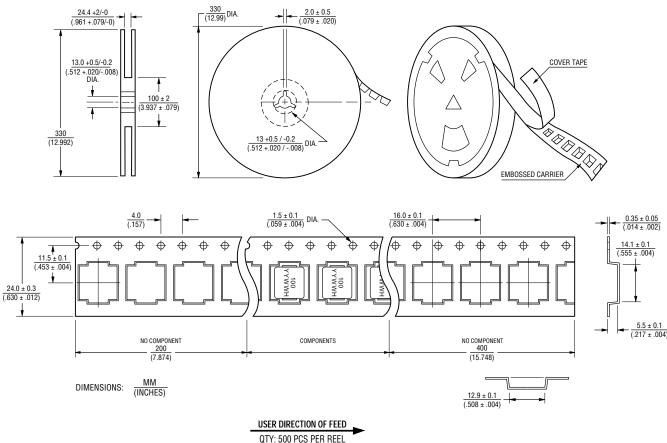


Typical Part Marking



SRP1245C Series - Shielded Power Inductors

Packaging Specifications



QTY: 500 PCS PER REEL

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02/20

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