

Features

- Shielded construction for low radiation
- Metal powder core
- High saturation current
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP8540A Series - Shielded Power Inductors

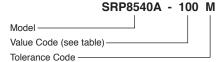
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		Q	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	Isat (A)
	L (μH)	Tol. (%)	Тур.	Typ.	Typ.	Max.	Typ.	Тур.
SRP8540A-R22M	0.22	± 20	10	132	1.6	1.76	31	60
SRP8540A-R33M	0.33	± 20	10	90	2	2.2	30	55
SRP8540A-R47M	0.47	± 20	10	69	2.6	2.86	28	40
SRP8540A-R56M	0.56	± 20	15	58	2.7	2.97	25	38
SRP8540A-R68M	0.68	± 20	15	56	3.1	3.41	23	36
SRP8540A-R82M	0.82	± 20	15	46	3.7	4.1	21	32
SRP8540A-1R0M	1.0	± 20	20	35	4.5	4.95	18	29
SRP8540A-1R5M	1.5	± 20	20	33	6.6	7.3	17	27
SRP8540A-2R2M	2.2	± 20	20	27	10.8	11.9	16	25
SRP8540A-3R3M	3.3	± 20	20	23	15	16.5	14	22
SRP8540A-4R7M	4.7	± 20	20	17	26.8	29.5	8.5	19
SRP8540A-5R6M	5.6	± 20	20	15	30	35	7.5	17
SRP8540A-6R8M	6.8	± 20	20	14	40	46	6.5	16.5
SRP8540A-8R2M	8.2	± 20	20	13	44	51	6	16
SRP8540A-100M	10	± 20	20	10	53	61	5.6	10
SRP8540A-220M	22	± 20	20	9	100	120	3.9	8

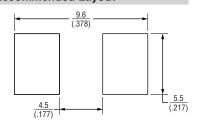
Schematic



How to Order



Recommended Layout



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

Additional Information

Click these links for more information:











PRODUCT SELECTOR

TECHNICAL LIBRARY

ICAL INVENTORY

SAMPLES

CONTACT

General Specifications

Operating Temperature

.....-55 °C to +150 °C (Temperature rise included)

Storage Temperature

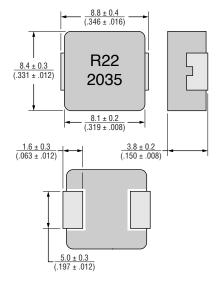
-55 °C to +150 °C

Rated Current

Note 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

Product Dimensions



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

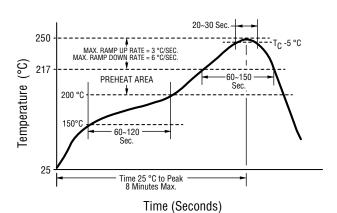


WARNING Cancer and Reproductive Harm $\underline{www.P65Warnings.ca.gov}$

- * 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. 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 www.bourns.com/docs/legal/disclaimer.pdf.

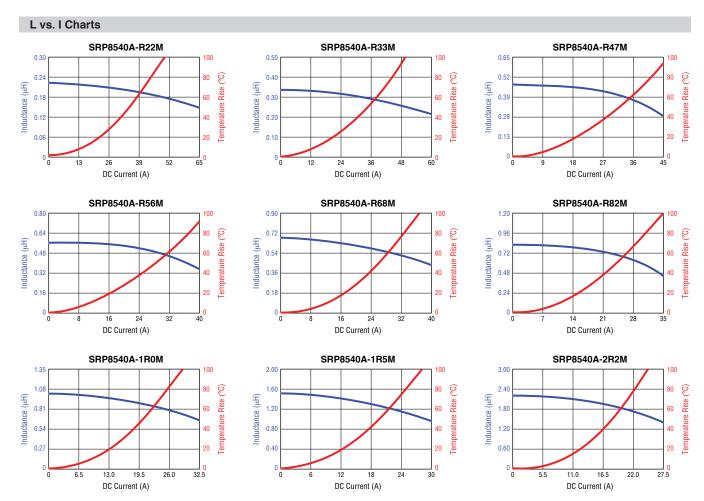
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Soldering Profile



Profile Feature	Pb Free Assembly			
Preheat - Temperature Min. (T _{Smin}) - Temperature Max. (T _{smax}) - Time(t _S) from T _{smin} to T _{smax}	150 °C 200 °C 60-120 seconds			
Ramp-up Rate (T _L to T _p)	3 °C/second max.			
Liquidous temperature (T _L) Time (t _L) maintained above T _L	217 °C 60-150 seconds			
Peak package body temperature (Tp)	250 °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.			

REFLOW TIMES: 3 TIMES MAX.



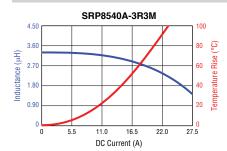
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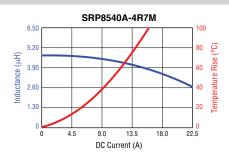
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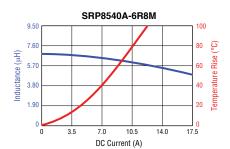
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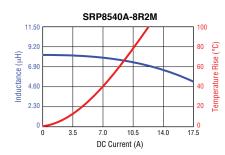


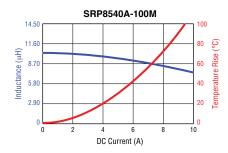


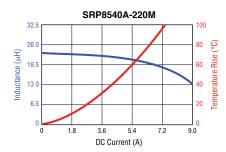








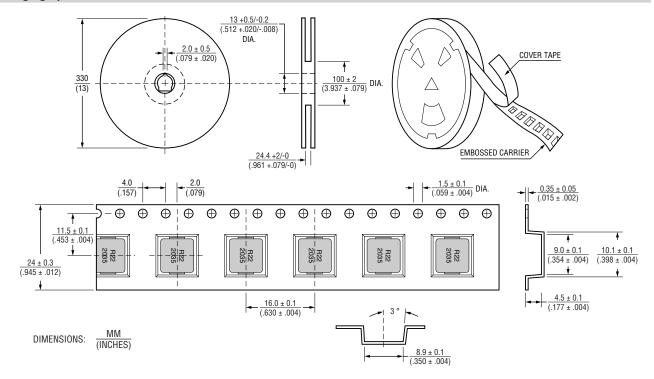




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BOURNS

Packaging Specifications



BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

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The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

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