



Features

- Shielded construction
- Inductance range: 10 to 1000 μ H
- Heating current up to 2.1 A
- Dimensions: 7.3 x 7.3 x 4.5 mm
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

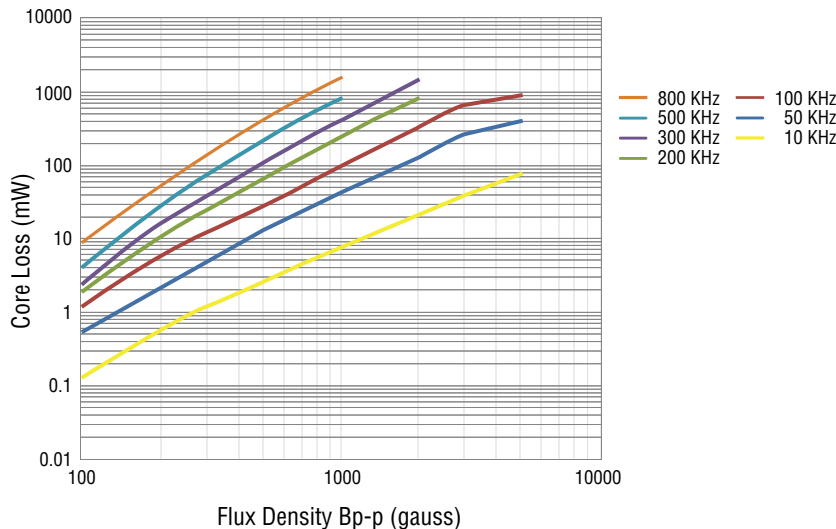
SRR0745A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 1 kHz / 1 V		DCR (Ω) Max.	I rms (A)	I sat (A)	***K-Factor
	L (μ H)	Tol. (%)				
SRR0745A-100M	10	± 20	0.052	2.1	2.5	112
SRR0745A-120M	12	± 20	0.062	2.0	2.3	98
SRR0745A-150M	15	± 20	0.075	1.9	2.1	88
SRR0745A-180M	18	± 20	0.09	1.8	1.95	83
SRR0745A-220M	22	± 20	0.096	1.65	1.75	72
SRR0745A-270M	27	± 20	0.13	1.45	1.62	66
SRR0745A-330M	33	± 20	0.15	1.35	1.45	59
SRR0745A-390M	39	± 20	0.19	1.17	1.3	55
SRR0745A-470M	47	± 20	0.21	1.05	1.2	50
SRR0745A-560M	56	± 20	0.24	0.95	1.1	47
SRR0745A-680M	68	± 20	0.3	0.86	0.96	41
SRR0745A-820M	82	± 20	0.4	0.78	0.9	38
SRR0745A-101M	100	± 20	0.45	0.7	0.78	34
SRR0745A-121M	120	± 20	0.55	0.6	0.7	32
SRR0745A-151M	150	± 20	0.76	0.48	0.58	29
SRR0745A-181M	180	± 20	0.82	0.46	0.54	26
SRR0745A-221M	220	± 20	0.95	0.42	0.5	23
SRR0745A-271M	270	± 20	1.2	0.38	0.46	22
SRR0745A-331M	330	± 20	1.5	0.34	0.4	20
SRR0745A-391M	390	± 20	1.85	0.32	0.36	18
SRR0745A-471M	470	± 20	2.2	0.29	0.34	16
SRR0745A-561M	560	± 20	2.6	0.26	0.3	15
SRR0745A-681M	680	± 20	2.8	0.24	0.28	13
SRR0745A-821M	820	± 20	3.5	0.22	0.26	12
SRR0745A-102M	1000	± 20	4.1	0.2	0.24	11

***K-Factor: To calculate core flux density, B_p -p (gauss) = $K \times L(\mu H) \times \Delta I$ (peak-to-peak ripple current, A), determine core loss from Core Loss vs. Flux Density plot.

Core Loss vs. Flux Density



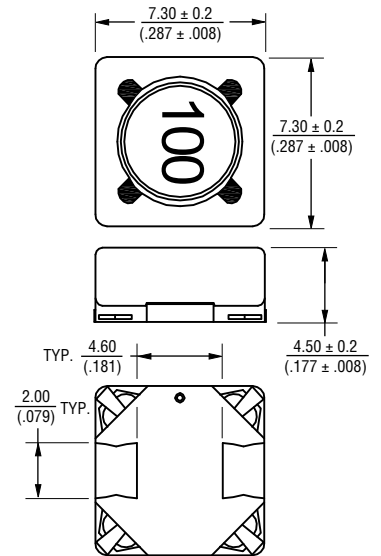
General Specifications

Operating Temperature-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature-40 °C to +125 °C
 Temperature Rise40 °C typ. at rated I rms
 Inductance drop25 % at I sat

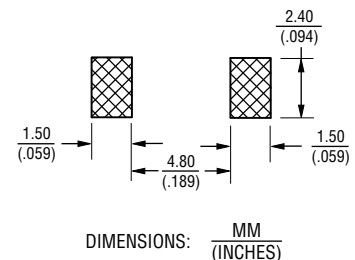
Materials

CoreFerrite
 WireEnameled copper
 Terminal FinishSn
 Packaging1000 pcs. per reel

Product Dimensions



Recommended Layout



* 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.

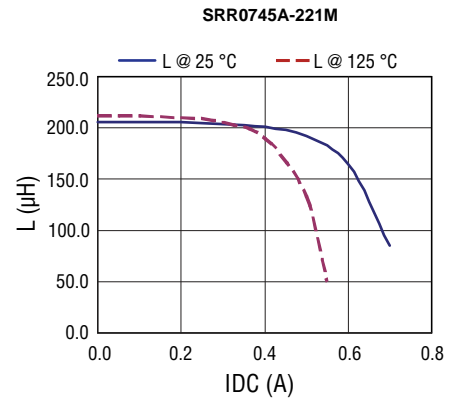
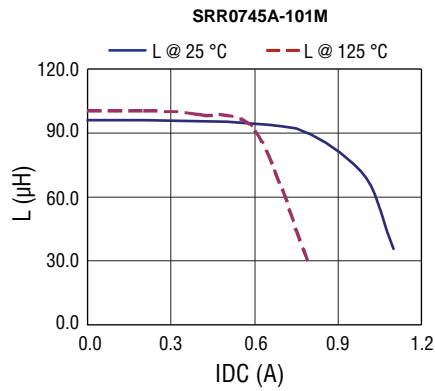
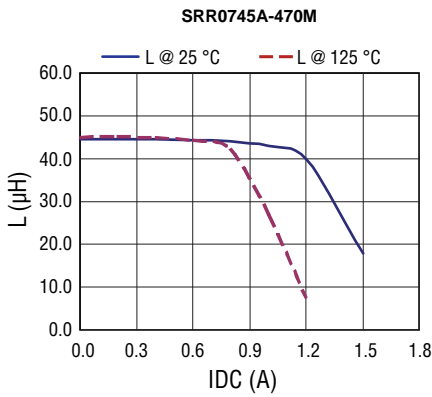


WARNING
 Cancer and Reproductive Harm
www.P65Warnings.ca.gov

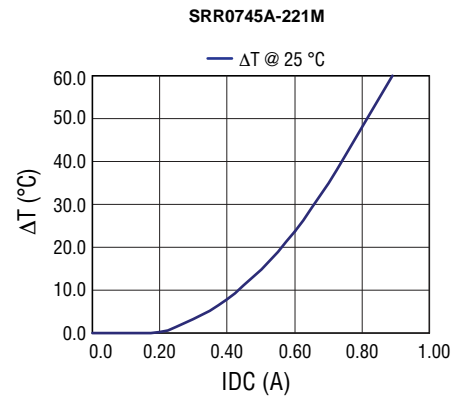
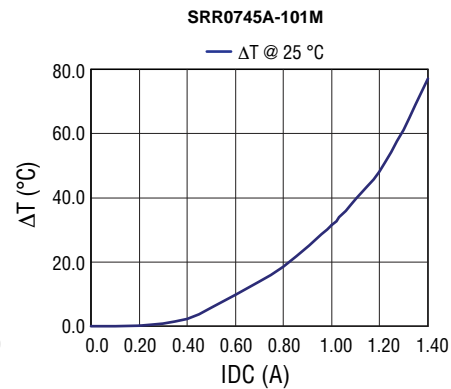
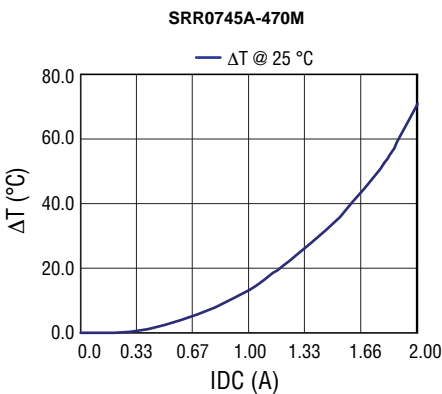
SRR0745A Series - Shielded Power Inductors

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Inductance vs. IDC



Temperature Rise vs. IDC

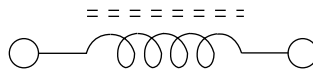


How to Order

SRR0745A - 100M

Model _____
Value Code (see table) _____

Electrical Schematic



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Users should verify actual device performance in their specific applications.

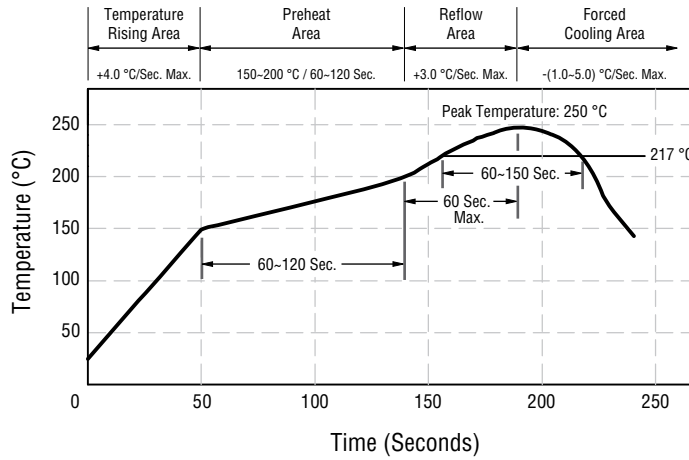
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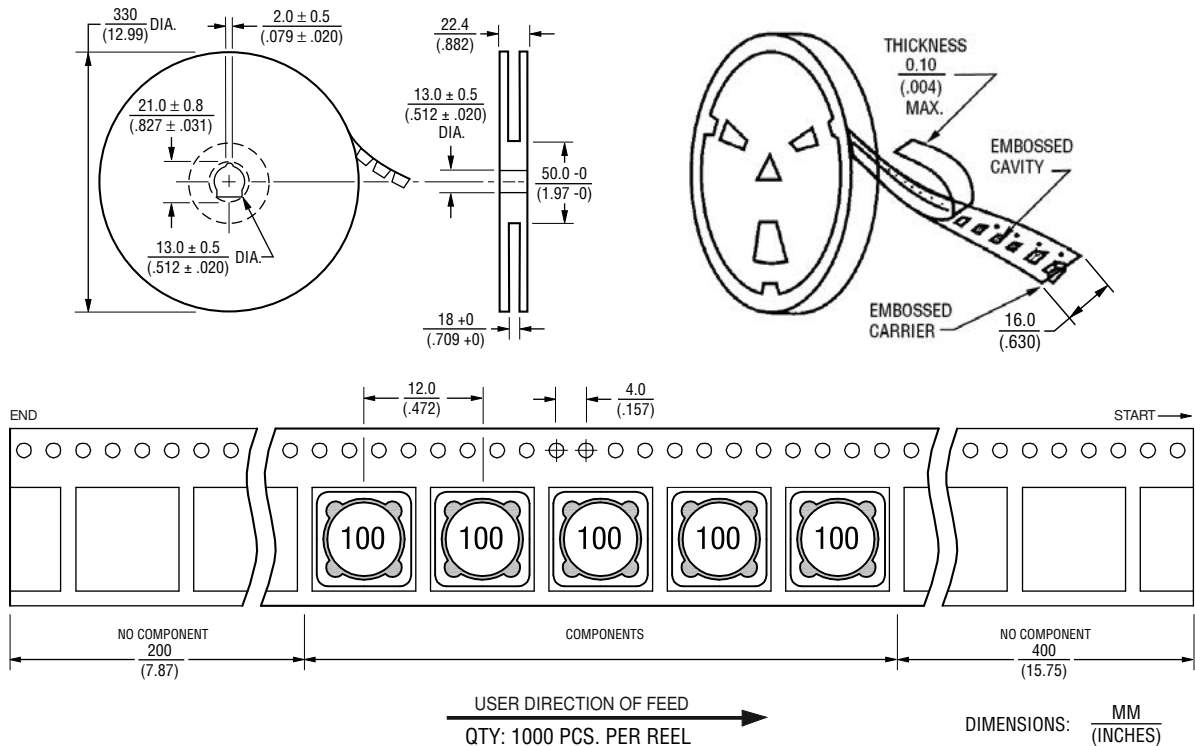
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Soldering Profile

Peak Temperature: 250 °C max.
 Max. Peak Temperature -5°C: 30 sec. max.
 Max. Time Above 217°C: 60-150 sec. max.



Packaging Specifications



REV. 11/19

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