



## Features

- Shielded construction
- Inductance range: 10 to 680  $\mu$ H
- Heating current up to 2.1 A
- AEC-Q200 qualified
- RoHS compliant\* and halogen free\*\*

## SRR0735A Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

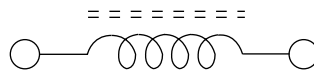
Bourns Part Number	Inductance @ 1 KHz / 1 V		DCR ( $\Omega$ ) Max.	I rms (A)	I sat (A)
	L ( $\mu$ H)	Tol. (%)			
SRR0735A-100M	10	$\pm$ 20	0.072	2.10	1.85
SRR0735A-120M	12	$\pm$ 20	0.085	1.90	1.60
SRR0735A-150M	15	$\pm$ 20	0.105	1.60	1.52
SRR0735A-180M	18	$\pm$ 20	0.125	1.40	1.40
SRR0735A-220M	22	$\pm$ 20	0.160	1.20	1.28
SRR0735A-270M	27	$\pm$ 20	0.185	1.10	1.15
SRR0735A-330M	33	$\pm$ 20	0.220	1.00	1.04
SRR0735A-390M	39	$\pm$ 20	0.250	0.95	0.96
SRR0735A-470M	47	$\pm$ 20	0.320	0.85	0.88
SRR0735A-560M	56	$\pm$ 20	0.350	0.78	0.80
SRR0735A-680M	68	$\pm$ 20	0.400	0.72	0.74
SRR0735A-820M	82	$\pm$ 20	0.480	0.63	0.65
SRR0735A-101M	100	$\pm$ 20	0.630	0.54	0.60
SRR0735A-121M	120	$\pm$ 20	0.720	0.53	0.55
SRR0735A-151M	150	$\pm$ 20	0.930	0.47	0.48
SRR0735A-181M	180	$\pm$ 20	1.15	0.43	0.45
SRR0735A-221M	220	$\pm$ 20	1.32	0.40	0.42
SRR0735A-271M	270	$\pm$ 20	1.70	0.37	0.37
SRR0735A-331M	330	$\pm$ 20	2.00	0.33	0.33
SRR0735A-391M	390	$\pm$ 20	2.30	0.30	0.30
SRR0735A-471M	470	$\pm$ 20	2.80	0.26	0.27
SRR0735A-561M	560	$\pm$ 20	3.50	0.23	0.25
SRR0735A-681M	680	$\pm$ 20	4.00	0.21	0.22

### How to Order

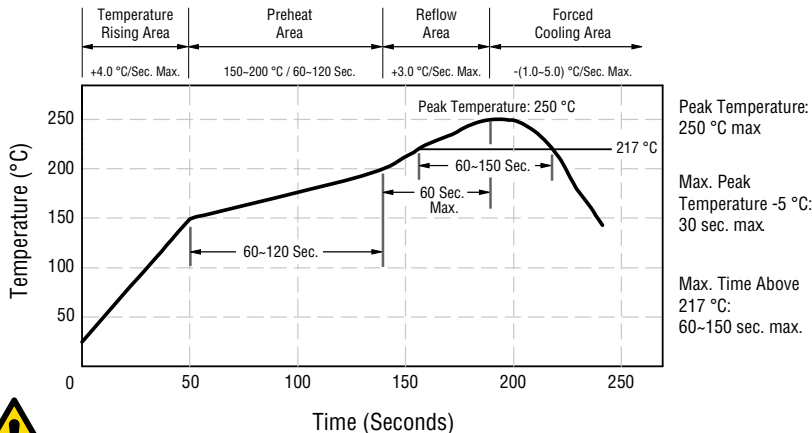
SRR0735A - 100M

Model \_\_\_\_\_  
Value Code (see table) \_\_\_\_\_

### Electrical Schematic



### Soldering Profile



**WARNING Cancer and Reproductive Harm** [www.P65Warnings.ca.gov](http://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](http://www.bourns.com/docs/legal/disclaimer.pdf).

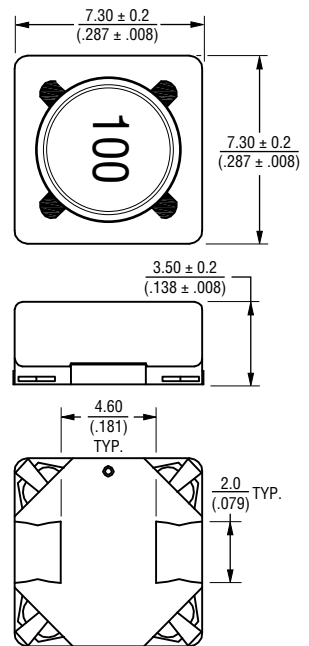
### General Specifications

Operating Temperature .....-40 °C to +125 °C  
(Temperature rise included)  
Storage Temperature .....-40 °C to +125 °C  
Temperature Rise .....40 °C typ. at rated I rms  
Inductance Drop ..... 25 % typ. at I sat

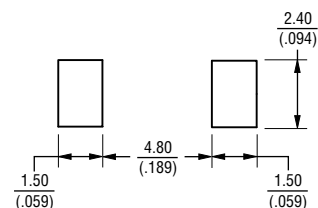
### Materials

Core.....Ferrite  
Wire .....Enameled copper  
Terminal Finish .....Sn  
Packaging..... 1500 pcs. per reel

### Product Dimensions



### Recommended Layout

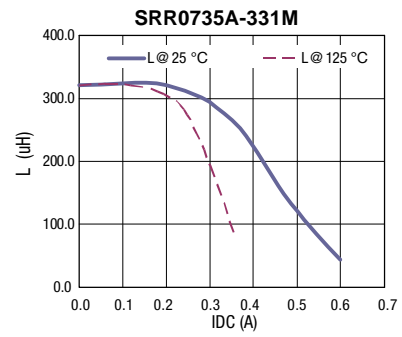
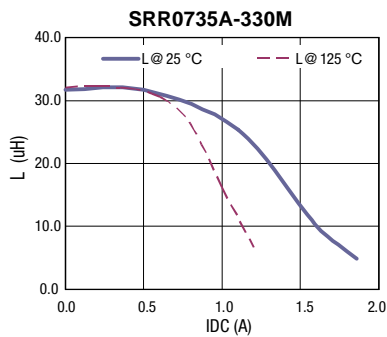
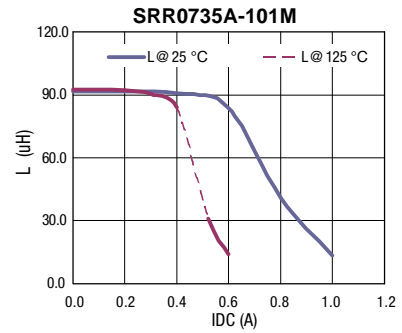
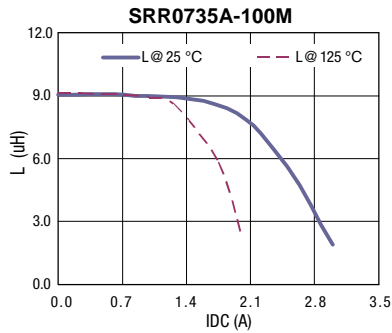


DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

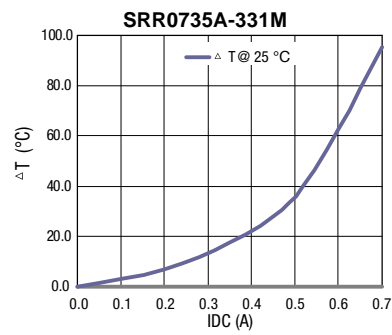
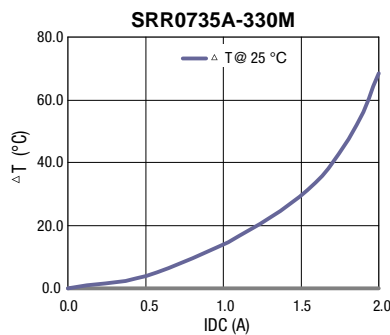
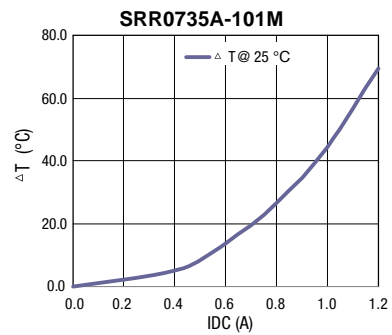
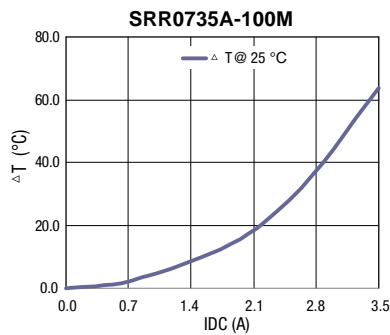
# SRR0735A Series - Shielded Power Inductors



## L vs. IDC



## Temperature vs. IDC



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