



**THE DATASHEET OF  
SRR0735A-331M**





### 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\*\*



This series is currently available but not recommended for new designs. The [Model SRR0735HA Series](#) is the recommended replacement.

**BOURNS®**

## SRR0735A Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

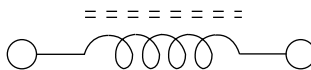
Bourns Part Number	Inductance @ 1 KHz / 1 V		DCR ( $\Omega$ ) Max.	I rms (A)	I sat (A)
	L ( $\mu$ H)	Tol. (%)			
SRR0735A-100M	10	$\pm$ 20	0.072	2.10	1.85
SRR0735A-120M	12	$\pm$ 20	0.085	1.90	1.60
SRR0735A-150M	15	$\pm$ 20	0.105	1.60	1.52
SRR0735A-180M	18	$\pm$ 20	0.125	1.40	1.40
SRR0735A-220M	22	$\pm$ 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

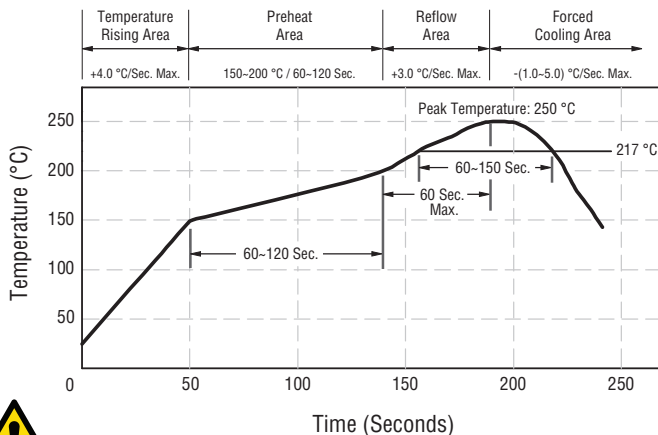
**SRR0735A - 100M**

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

### Electrical Schematic



### Soldering Profile



Peak Temperature: 250 °C max.

Max. Peak Temperature -5 °C: 30 sec. max.

Max. Time Above 217 °C: 60~150 sec. max.



**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.

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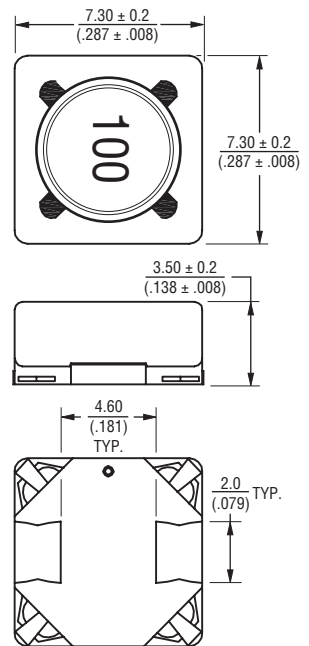
### General Specifications

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

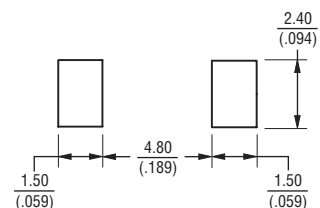
### Materials

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

### Product Dimensions



### Recommended Layout

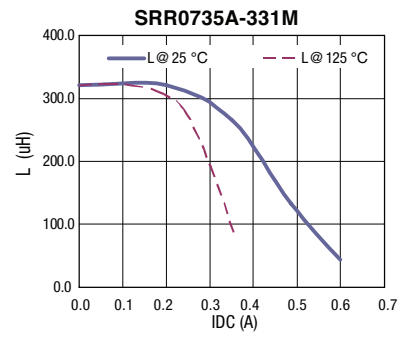
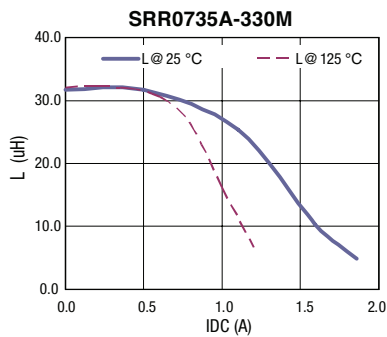
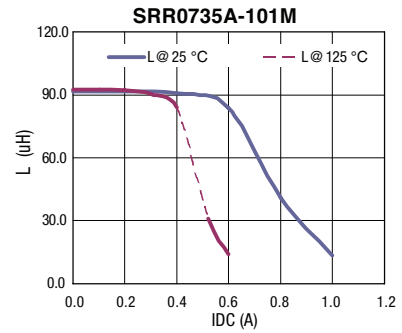
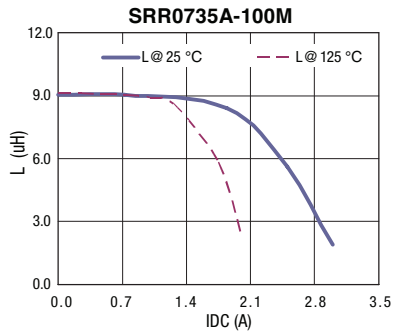


DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

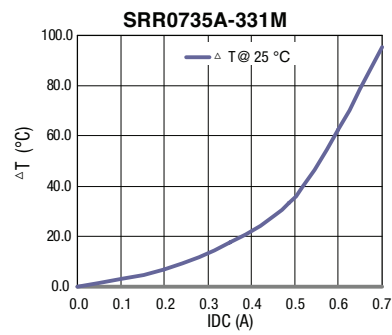
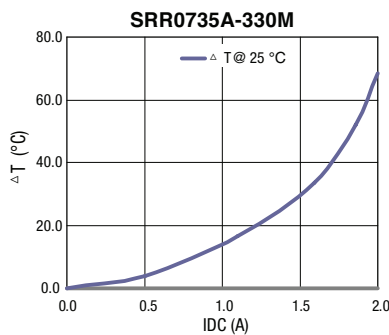
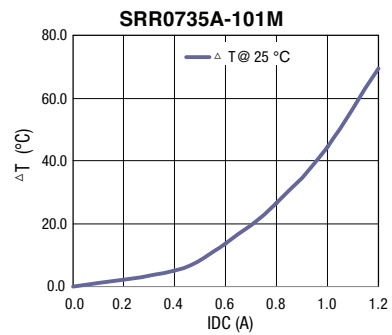
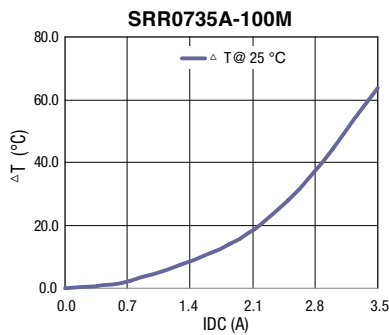
# SRR0735A Series - Shielded Power Inductors



## L vs. IDC



## Temperature vs. IDC

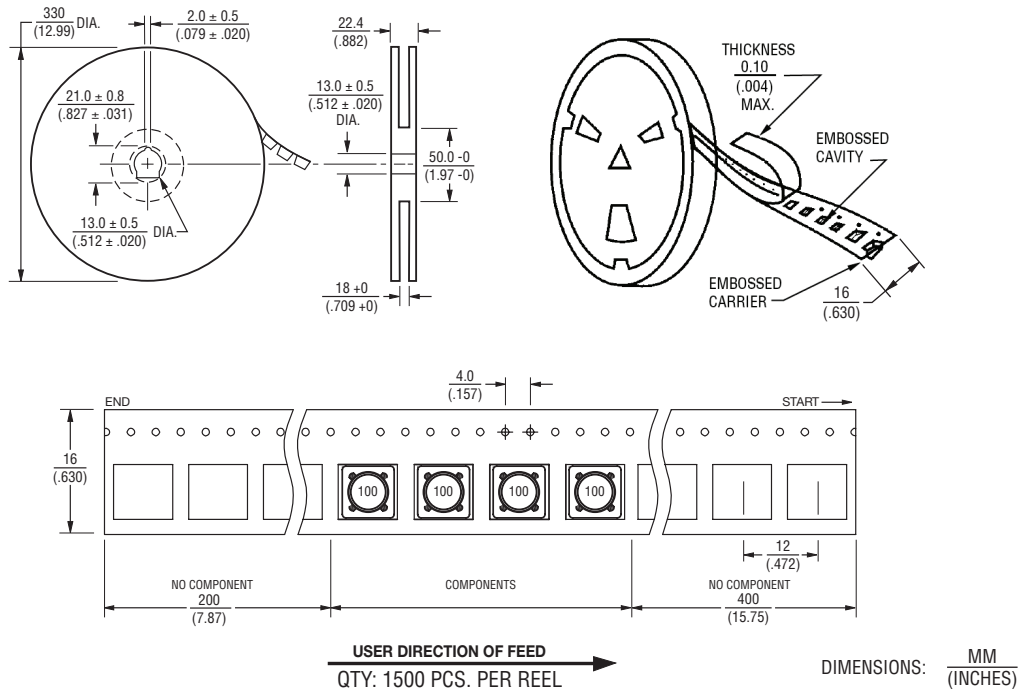


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# SRR0735A Series - Shielded Power Inductors

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## Packaging Specifications



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