



## 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.

## SRR0735A Series - Shielded Power Inductors

### Electrical Specifications @ 25 °C

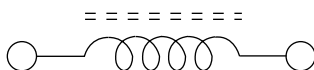
| Bourns Part Number | Inductance @ 1 KHz / 1 V |          | DCR ( $\Omega$ ) Max. | I rms (A) | I sat (A) |
|--------------------|--------------------------|----------|-----------------------|-----------|-----------|
|                    | L ( $\mu$ H)             | Tol. (%) |                       |           |           |
| 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

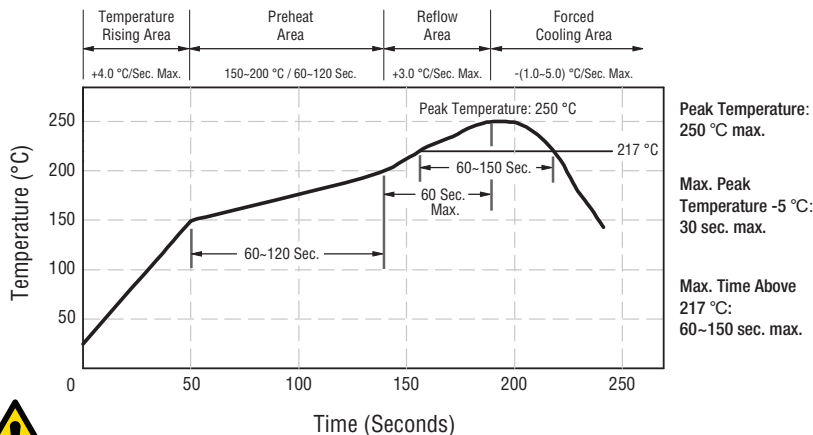
**SRR0735A - 100M**

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.

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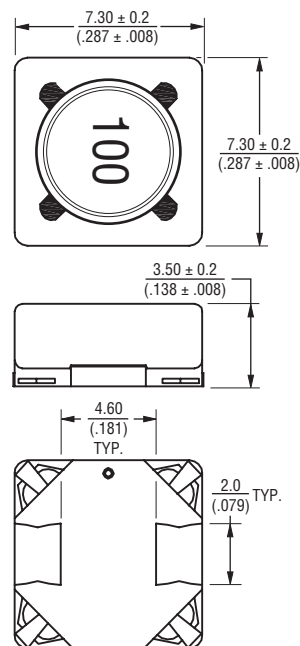
### General Specifications

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

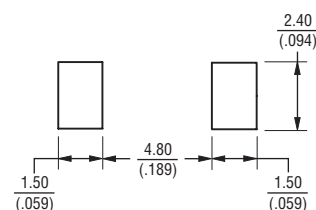
### Materials

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

### Product Dimensions



### Recommended Layout

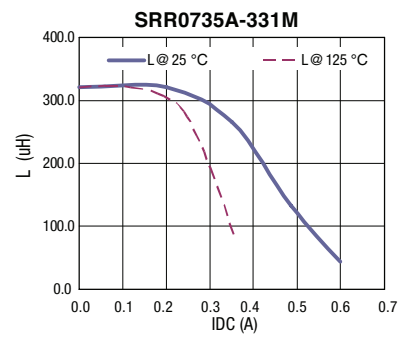
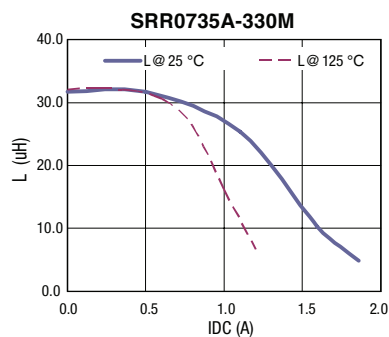
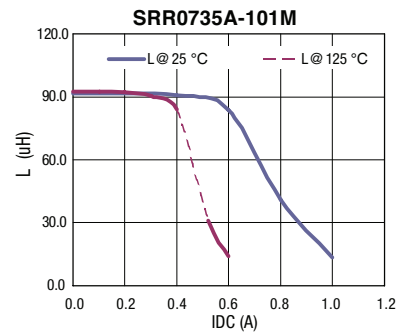
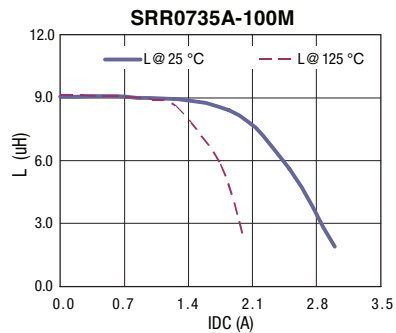


DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

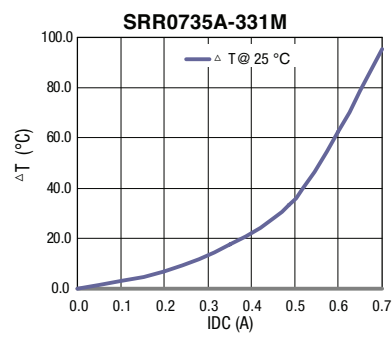
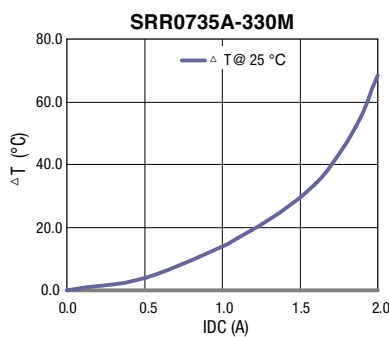
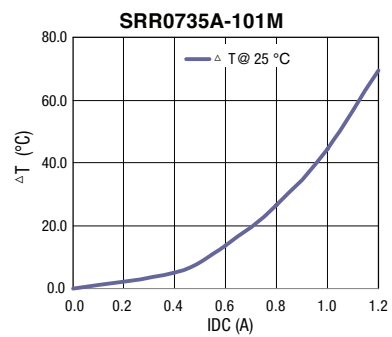
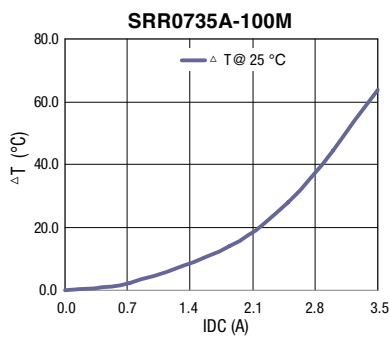
## SRR0735A Series - Shielded Power Inductors

**BOURNS®**

### L vs. IDC



### Temperature vs. IDC



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**BOURNS®**

330  
(12.99) DIA.

2.0 ± 0.5  
(.079 ± .020)

22.4  
(.882)

13.0 ± 0.5  
(.512 ± .020) DIA.

50.0 - 0  
(1.97 - 0)

0.10  
(.004) MAX.

EMBOSSED CAVITY

EMBOSSED CARRIER

16  
(.630)

16  
(.630)

END

4.0  
(.157)

START

16  
(.630)

NO COMPONENT 200  
(7.87)

COMPONENTS 400  
(15.75)

12  
(.472)

NO COMPONENT 400  
(15.75)

USER DIRECTION OF FEED

QTY: 1500 PCS. PER REEL

DIMENSIONS

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