



**THE DATASHEET OF
SRR0735A-180M**





Features

- Shielded construction
- Inductance range: 10 to 680 μH
- 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.

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SRR0735A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

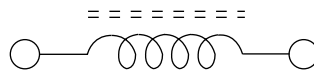
| Bourns Part Number | Inductance @ 1 KHz / 1 V | | DCR (Ω) Max. | I rms (A) | I sat (A) |
|--------------------|--------------------------|----------|-----------------------|-----------|-----------|
| | L (μH) | Tol. (%) | | | |
| SRR0735A-100M | 10 | ± 20 | 0.072 | 2.10 | 1.85 |
| SRR0735A-120M | 12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

How to Order

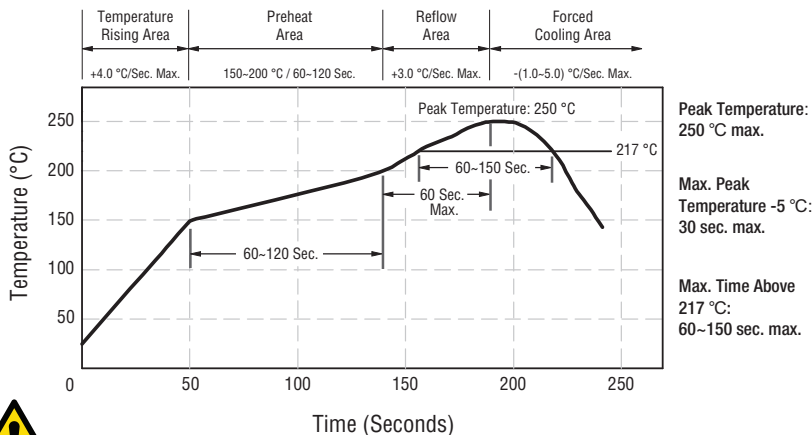
SRR0735A - 100M

Model _____
Value Code (see table) _____

Electrical Schematic



Soldering Profile



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

* 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.

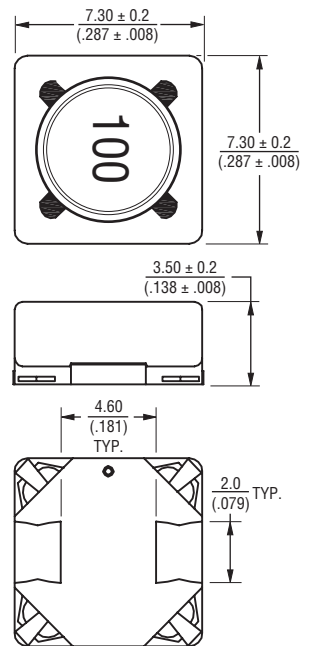
General Specifications

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 Drop 25 % typ. at I sat

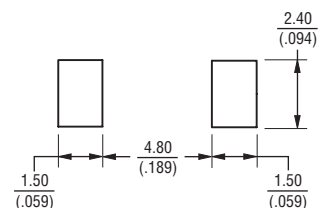
Materials

CoreFerrite
WireEnameled copper
Terminal FinishSn
Packaging 1500 pcs. per reel

Product Dimensions



Recommended Layout

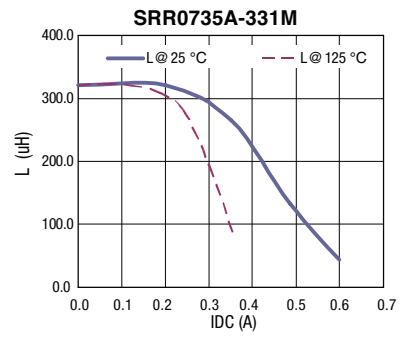
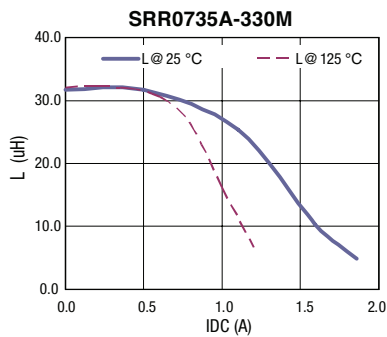
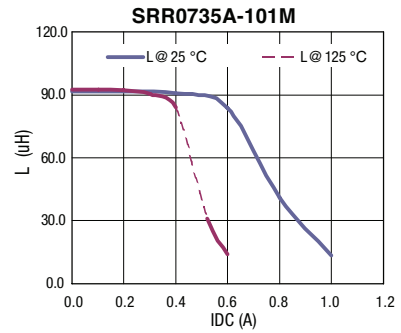
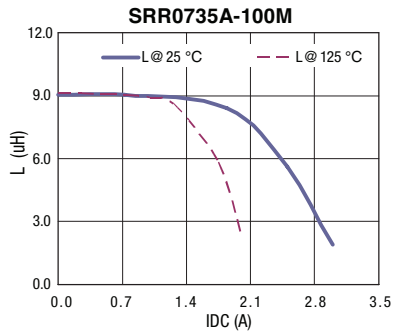


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

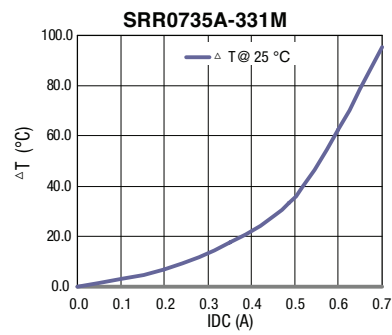
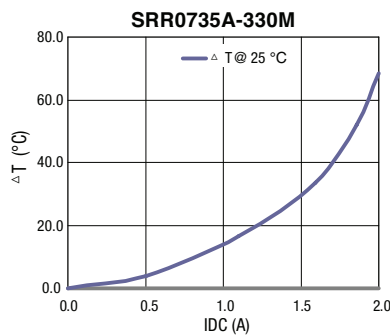
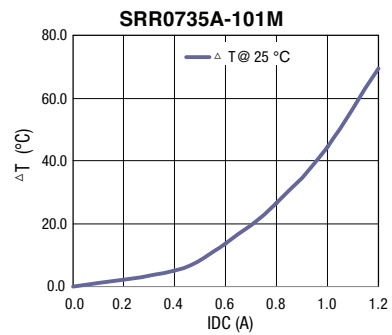
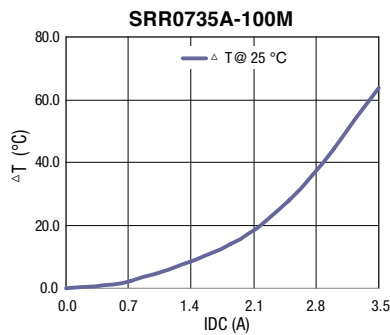
SRR0735A Series - Shielded Power Inductors



L vs. IDC



Temperature vs. IDC

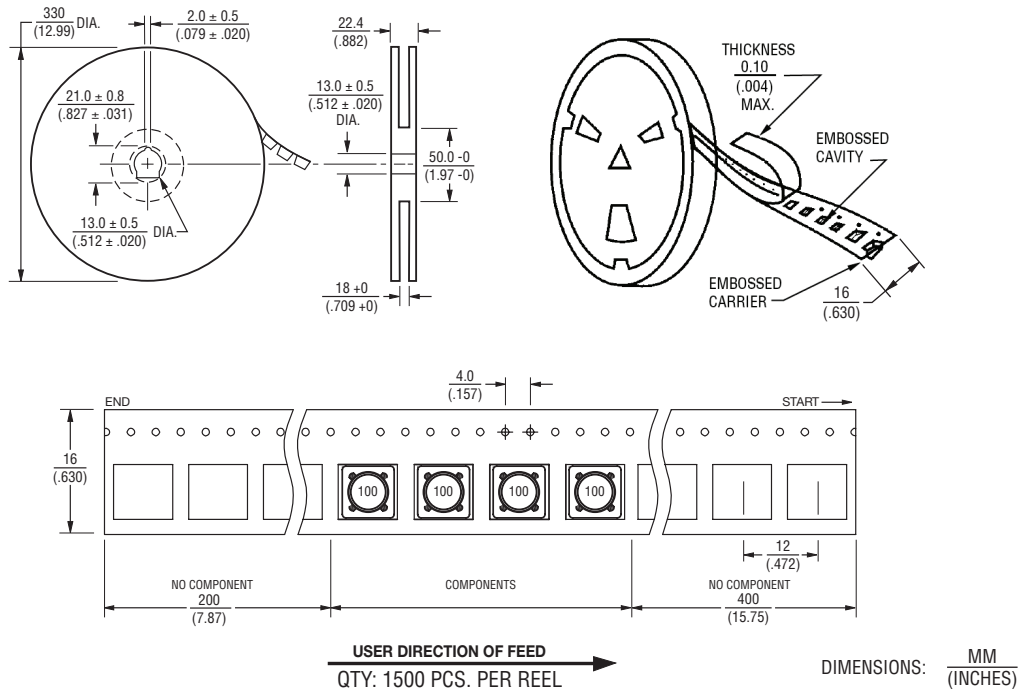


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SRR0735A Series - Shielded Power Inductors

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Packaging Specifications



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REV. 01/24

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