



THE DATASHEET OF SRR0735A-100M





Features

- Shielded construction
- Inductance range: 10 to 680 μ 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

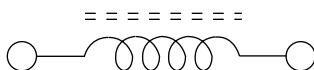
Bourns Part Number	Inductance @ 1 KHz / 1 V		DCR (Ω) Max.	I rms (A)	I sat (A)
	L (μ H)	Tol. (%)			
SRR0735A-100M	10	± 20	0.072	2.10	1.85
SRR0735A-120M	12	± 20	0.085	1.90	1.60
SRR0735A-150M	15	± 20	0.105	1.60	1.52
SRR0735A-180M	18	± 20	0.125	1.40	1.40
SRR0735A-220M	22	± 20	0.160	1.20	1.28
SRR0735A-270M	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

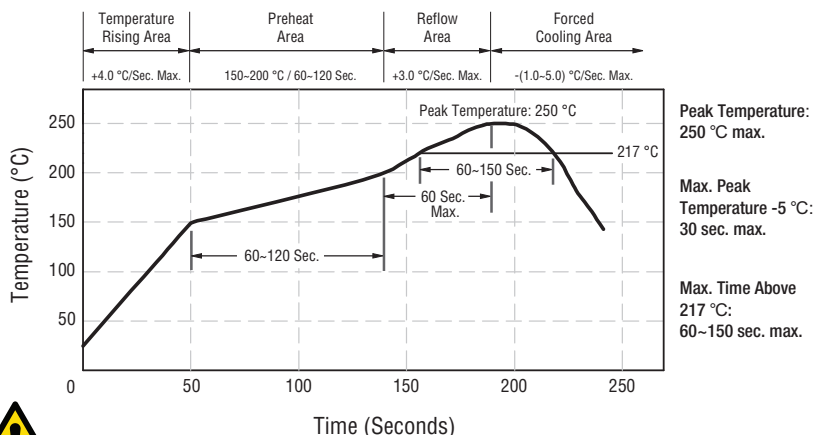
SRR0735A - 100M

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.

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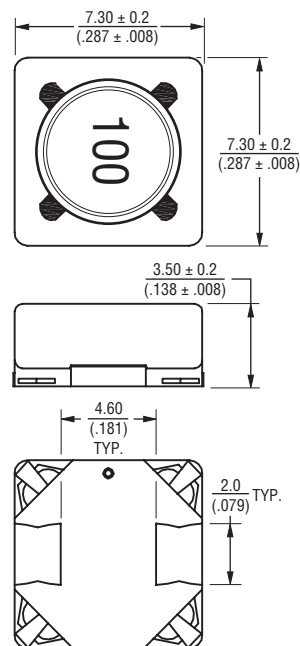
General Specifications

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

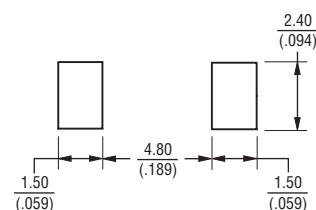
Materials

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

Product Dimensions



Recommended Layout

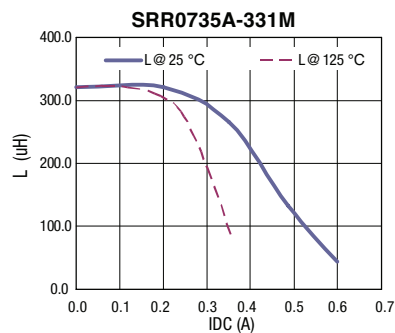
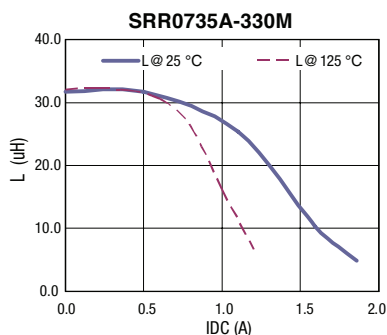
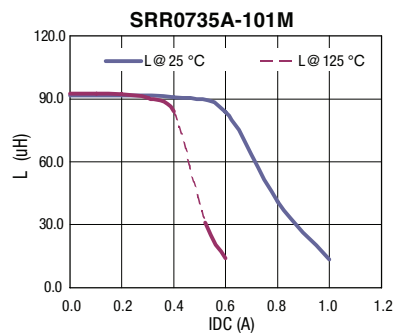
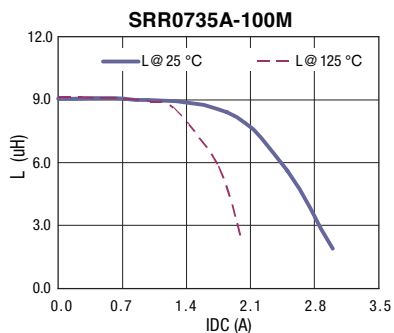


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

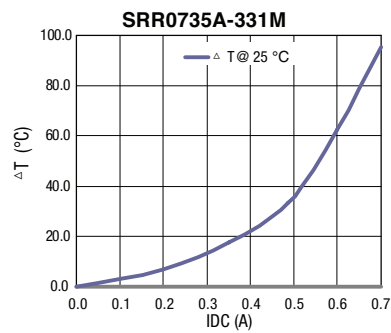
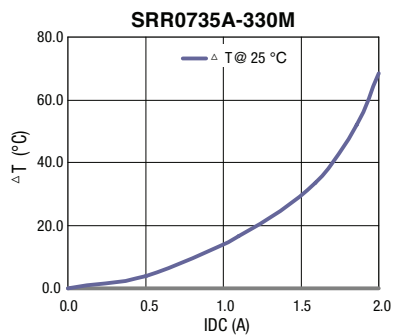
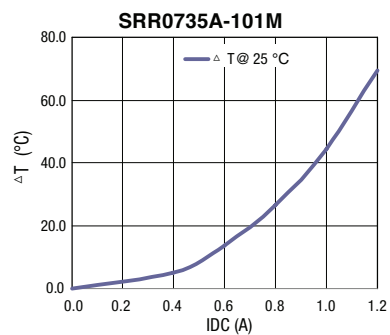
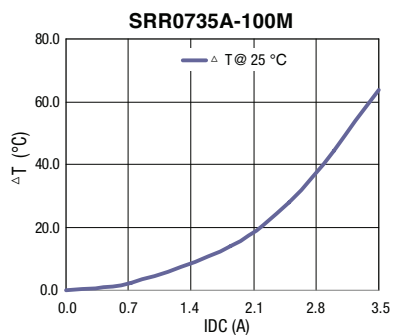
SRR0735A Series - Shielded Power Inductors

BOURNS®

L vs. IDC



Temperature vs. IDC



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Users should verify actual device performance in their specific applications.

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BOURNS®

330
(12.99) DIA.

2.0 ± 0.5
(.079 ± .020)

21.0 ± 0.8
(.827 ± .031)

13.0 ± 0.5
(5.12 ± .020) DIA.

22.4
(.882)

13.0 ± 0.5
(5.12 ± .020) DIA.

50.0 - 0
(1.97 - 0)

18 + 0
(7.09 + 0)

THICKNESS
0.10
(.004) MAX.

EMBOSSED CAVITY

EMBOSSED CARRIER

16
(.630)

END

4.0
(.157)

START

16
(.630)

NO COMPONENT 200
(7.87)

COMPONENTS 400
(15.75)

NO COMPONENT 12
(.472)

USER DIRECTION OF FEED

QTY: 1500 PCS. PER REEL

DIMENSIONS

www.bourns.com

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