



Features

- Shielded construction – low radiation
- Wide operating temperature range
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Applications

- DC-DC converters
- Power supplies in automotive, consumer, industrial, and telecom electronics

SRR0735HA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

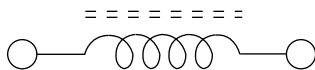
Bourns Part Number	Inductance @ 1 KHz / 1 V		DCR (Ω) Max.	I _{rms} (A) Typ.	I _{sat} (A) Typ.
	L (μH)	Tol. (%)			
SRR0735HA-100M	10.0	±20	0.072	2.10	1.85
SRR0735HA-120M	12.0	±20	0.085	1.90	1.60
SRR0735HA-150M	15.0	±20	0.105	1.60	1.52
SRR0735HA-180M	18.0	±20	0.125	1.40	1.40
SRR0735HA-220M	22.0	±20	0.160	1.20	1.28
SRR0735HA-270M	27.0	±20	0.185	1.10	1.15
SRR0735HA-330M	33.0	±20	0.220	1.00	1.04
SRR0735HA-390M	39.0	±20	0.250	0.95	0.96
SRR0735HA-470M	47.0	±20	0.320	0.85	0.88
SRR0735HA-560M	56.0	±20	0.350	0.78	0.80
SRR0735HA-680M	68.0	±20	0.400	0.72	0.74
SRR0735HA-820M	82.0	±20	0.480	0.63	0.65
SRR0735HA-101M	100.0	±20	0.630	0.54	0.60
SRR0735HA-121M	120.0	±20	0.720	0.53	0.55
SRR0735HA-151M	150.0	±20	0.930	0.47	0.48
SRR0735HA-181M	180.0	±20	1.150	0.43	0.45
SRR0735HA-221M	220.0	±20	1.320	0.40	0.42
SRR0735HA-271M	270.0	±20	1.700	0.37	0.38
SRR0735HA-331M	330.0	±20	2.000	0.33	0.33
SRR0735HA-391M	390.0	±20	2.300	0.30	0.30
SRR0735HA-471M	470.0	±20	2.800	0.26	0.27
SRR0735HA-561M	560.0	±20	3.500	0.23	0.25
SRR0735HA-681M	680.0	±20	4.000	0.21	0.22
SRR0735HA-821M	820.0	±20	5.200	0.19	0.21
SRR0735HA-102M	1000.0	±20	5.800	0.17	0.18

How to Order

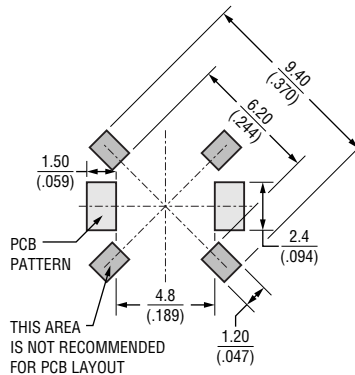
SRR0735HA - 100M

Model _____
Value Code (see table) _____

Electrical Schematic



Recommended Layout



Additional Information

Click these links for more information:



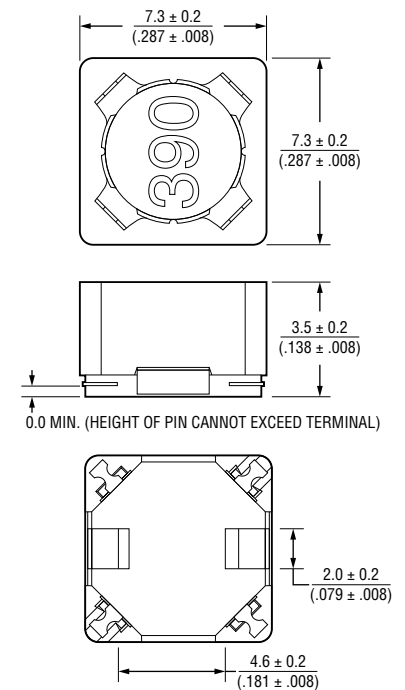
General Specifications

Operating Temperature -55 °C to +150 °C
(Temperature rise included)
Storage Temperature -55 °C to +150 °C
Temperature Rise 40 °C typ. at rated I_{rms}
Inductance Drop 25 % typ. at I_{sat}
Moisture Sensitivity Level 1
ESD Classification (HBM) N/A

Materials

Core Ferrite DR & RI
Wire Enameled copper
Terminal Finish Sn/Ag/Cu
Packaging 1500 pcs. per 13-inch reel

Product Dimensions



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



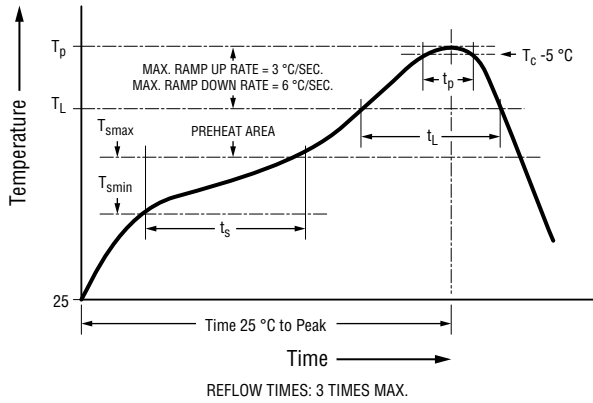
WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

* 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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SRR0735HA Series - Shielded Power Inductors

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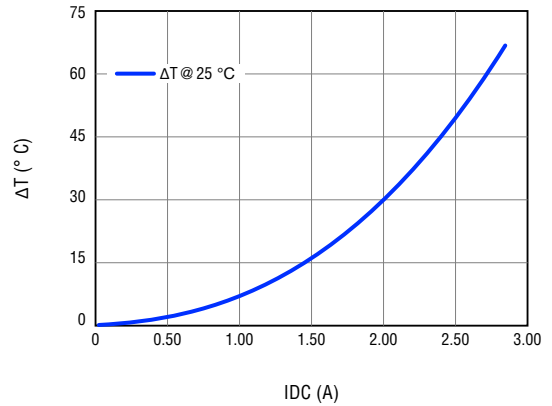
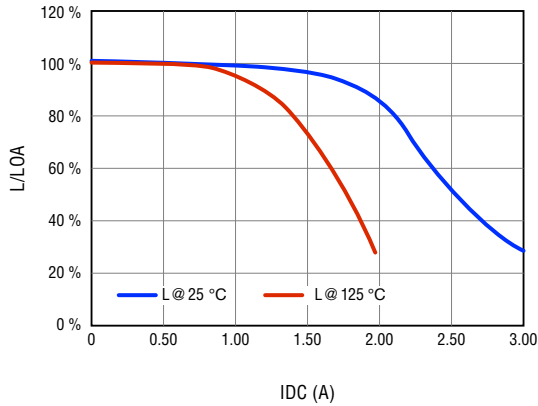
Soldering Profile



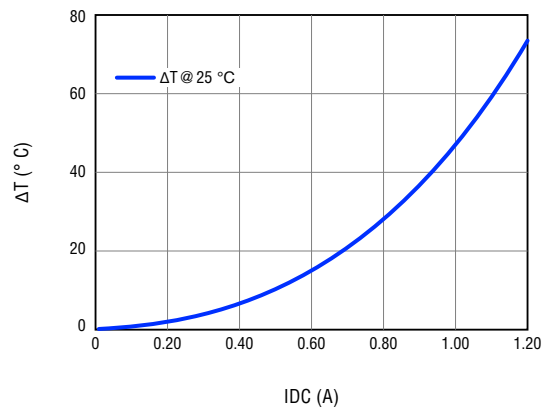
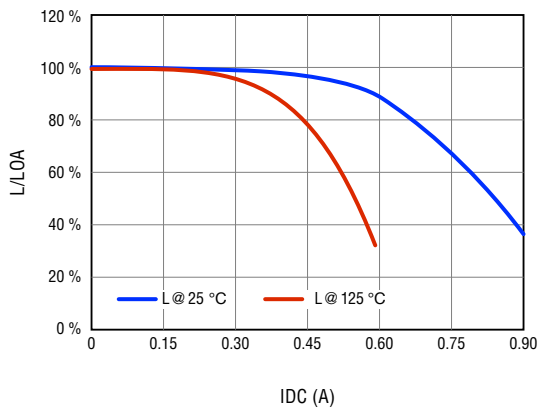
Profile Feature	Pb Free Assembly
Preheat <ul style="list-style-type: none"> - Temperature Min. (T_{smin}) - Temperature Max. (T_{smax}) - Time (t_s) from T_{smin} to T_{smax} 	150 °C 200 °C 60-120 seconds
Ramp-up Rate (T _L to T _p)	3 °C/second max.
Liquidous temperature (T _L) Time (t _L) maintained above T _L	217 °C 60-150 seconds
Peak package body temperature (T _p)	250 °C
Time (t _p) at T _c - 5 °C (T _p should be equal to or less than T _c)	< 30 seconds
Ramp-Down Rate (T _p to T _L)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

Typical Current Characteristics

SRR0735HA-100M



SRR0735HA-101M



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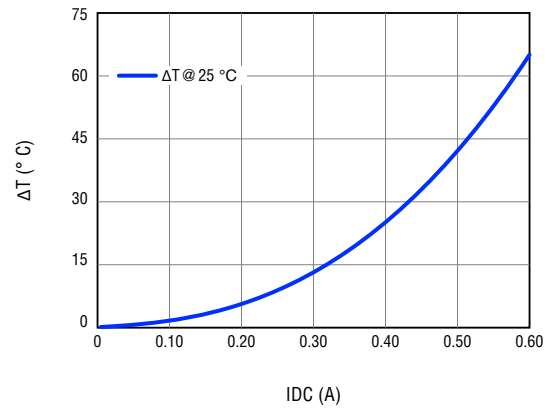
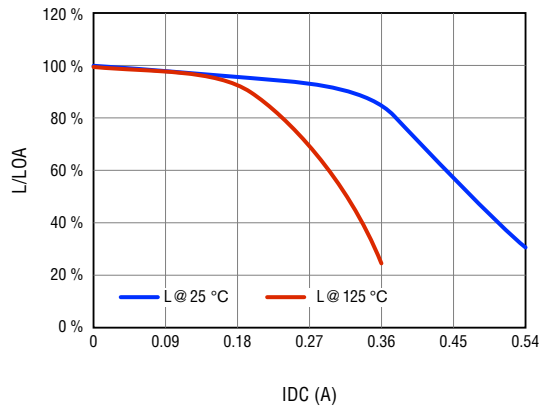
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SRR0735HA Series - Shielded Power Inductors

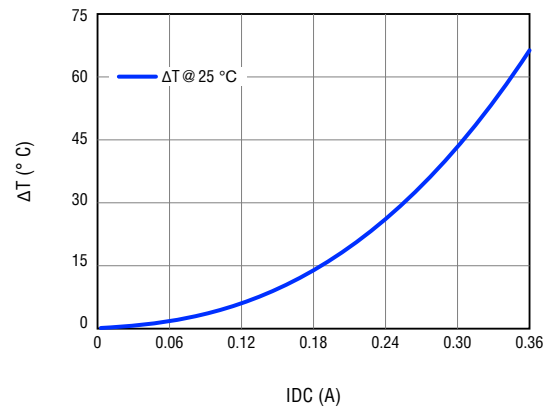
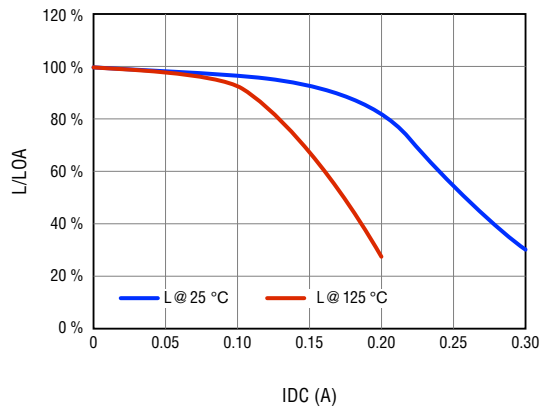
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Typical Current Characteristics (continued)

SRR0735HA-331M



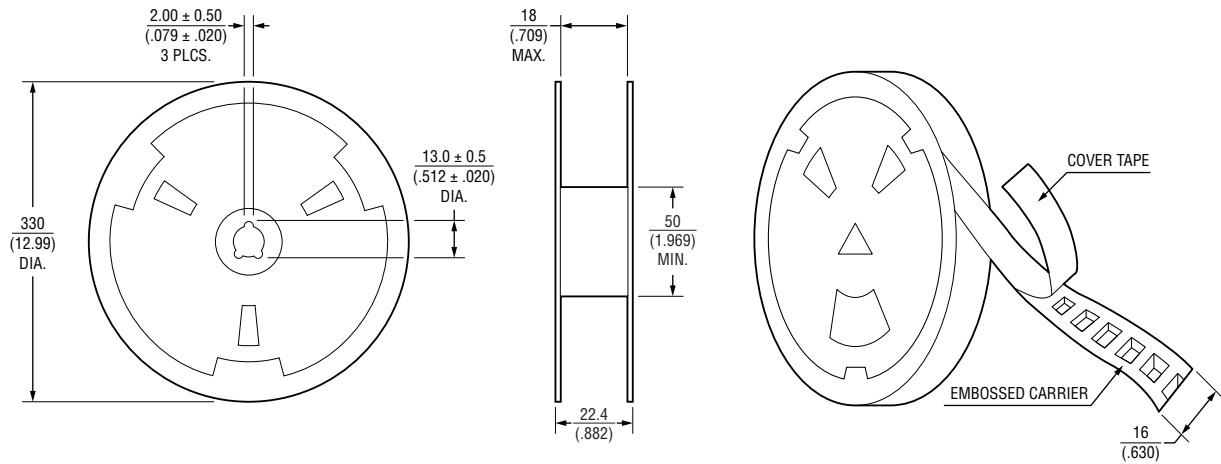
SRR0735HA-102M



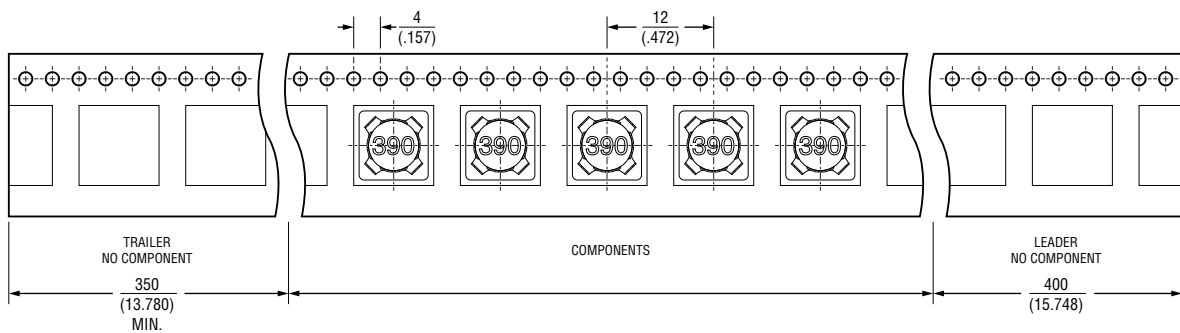
SRR0735HA Series - Shielded Power Inductors

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Packaging Specifications



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



USER DIRECTION OF FEED →
QTY: 1500 PCS PER REEL

BOURNS®

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REV. 12/23

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