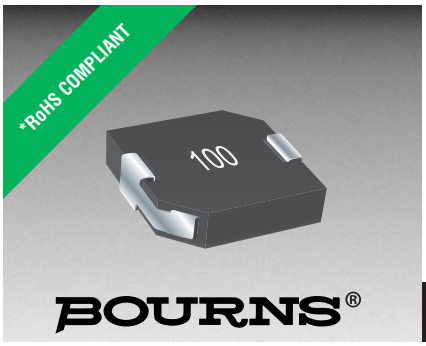


Features

- Shielded construction
- Mounting height of 7.0 mm max.
- Current rating up to 41 A
- RoHS compliant*

Applications

- Input/output of DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Camcorders
  - LCD TVs
  - Car audio systems

SRP1270 Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance L (µH) ±20 %	I rms (A)	I sat (A)	DCR (mΩ) max.	SRF (MHz) typ.
SRP1270-R32M	0.32	46	65	0.9	95
SRP1270-R47M	0.47	41	65	1.2	85
SRP1270-R68M	0.68	35	60	1.6	65
SRP1270-1R0M	1.0	32	50	2.1	45
SRP1270-1R5M	1.5	27	48	2.6	31
SRP1270-1R8M	1.8	24	41	3.2	31
SRP1270-2R2M	2.2	22	40	4.2	25
SRP1270-3R3M	3.3	18	35	6.6	20
SRP1270-4R7M	4.7	15	30	11.2	15
SRP1270-5R6M	5.6	14	26.5	10.0	13
SRP1270-6R8M	6.8	12	21	14.0	12
SRP1270-8R2M	8.2	11	17	15.5	11
SRP1270-100M	10.0	10	16	16.8	10

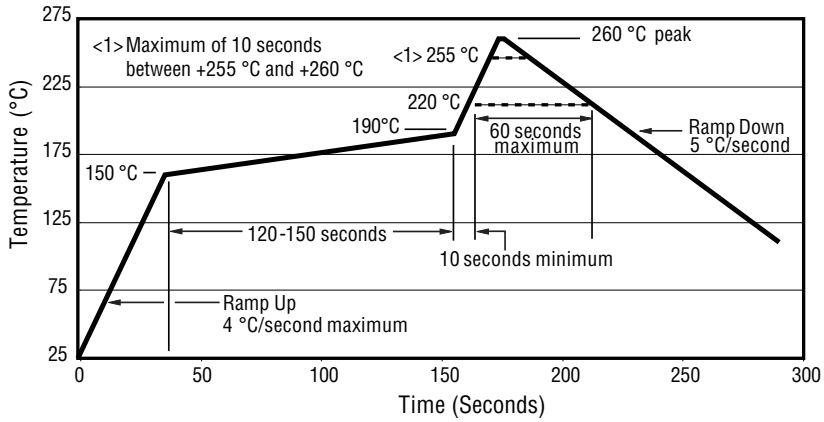
General Specifications

Test Voltage.....1.0 V
Test Frequency .....100 KHz
Reflow Soldering.....230 °C; 50 sec max.
Operating Temperature ..-55 °C to +125 °C
(Temperature rise included)
Storage Temperature..-55 °C to +125 °C
Resistance to Soldering Heat
.....+260 °C for 10 sec.

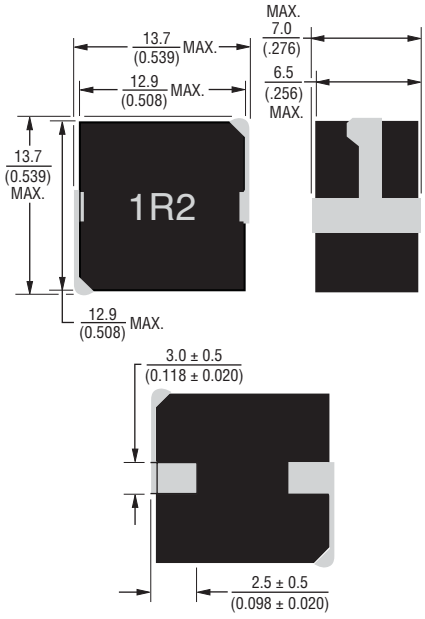
Materials

Core.....Iron
Wire .....Enameled copper
Adhesive .....Epoxy resin
Terminal.....Ag/Ni/Sn
Rated Current.....Ind. drops 20 % at I sat
Temperature Rise.....40 °C at rated I rms
Packaging .....400 pcs. per 13-inch reel

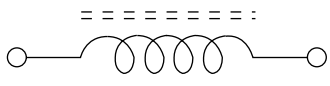
Soldering Profile



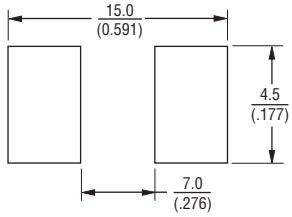
Product Dimensions



Electrical Schematic



Recommended Layout

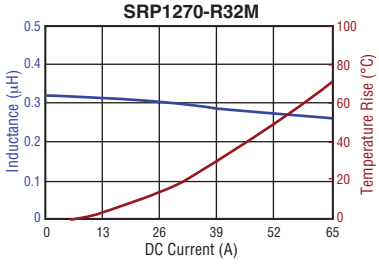


DIMENSIONS: MM / (INCHES)

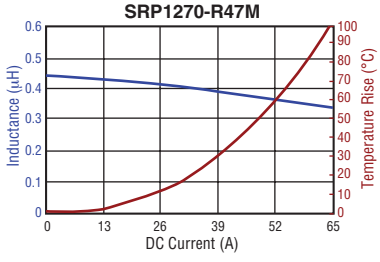
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

L vs. I Charts

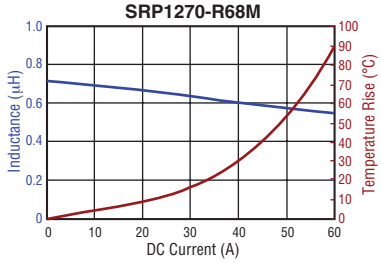
SRP1270-R32M



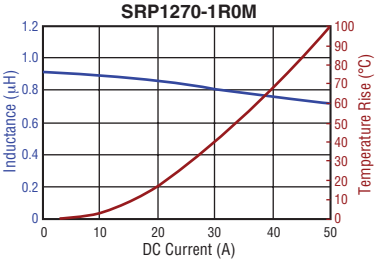
SRP1270-R47M



SRP1270-R68M



SRP1270-1R0M



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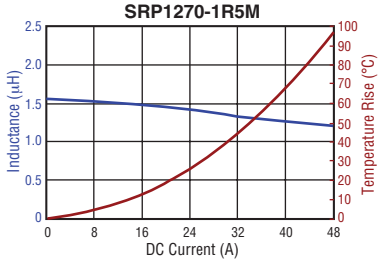
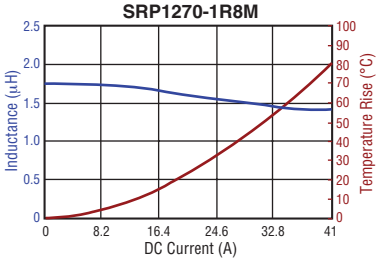
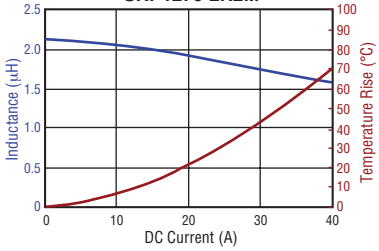


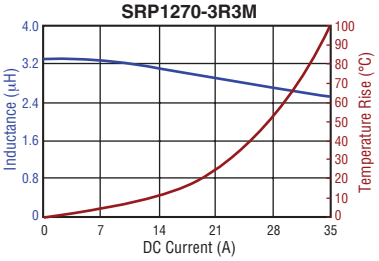
SRP1270-1R8M



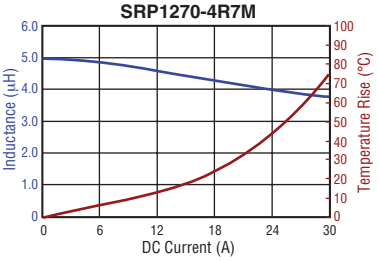
SRP1270-2R2M



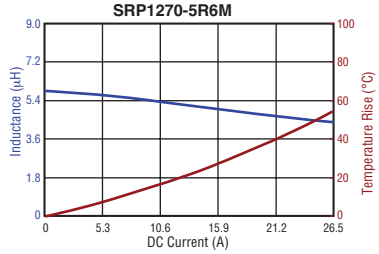
SRP1270-3R3M



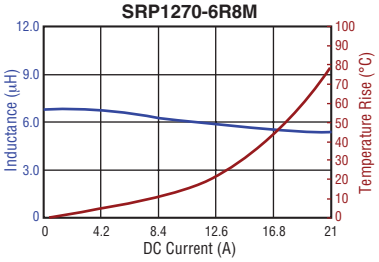
SRP1270-4R7M



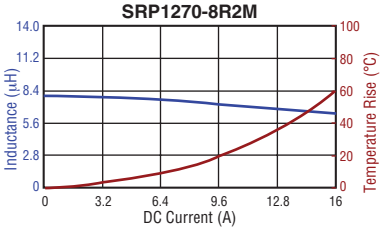
SRP1270-5R6M



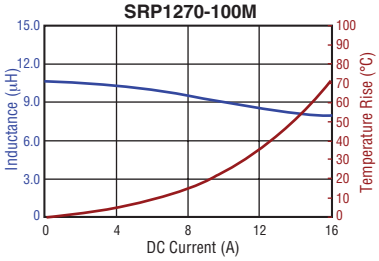
SRP1270-6R8M



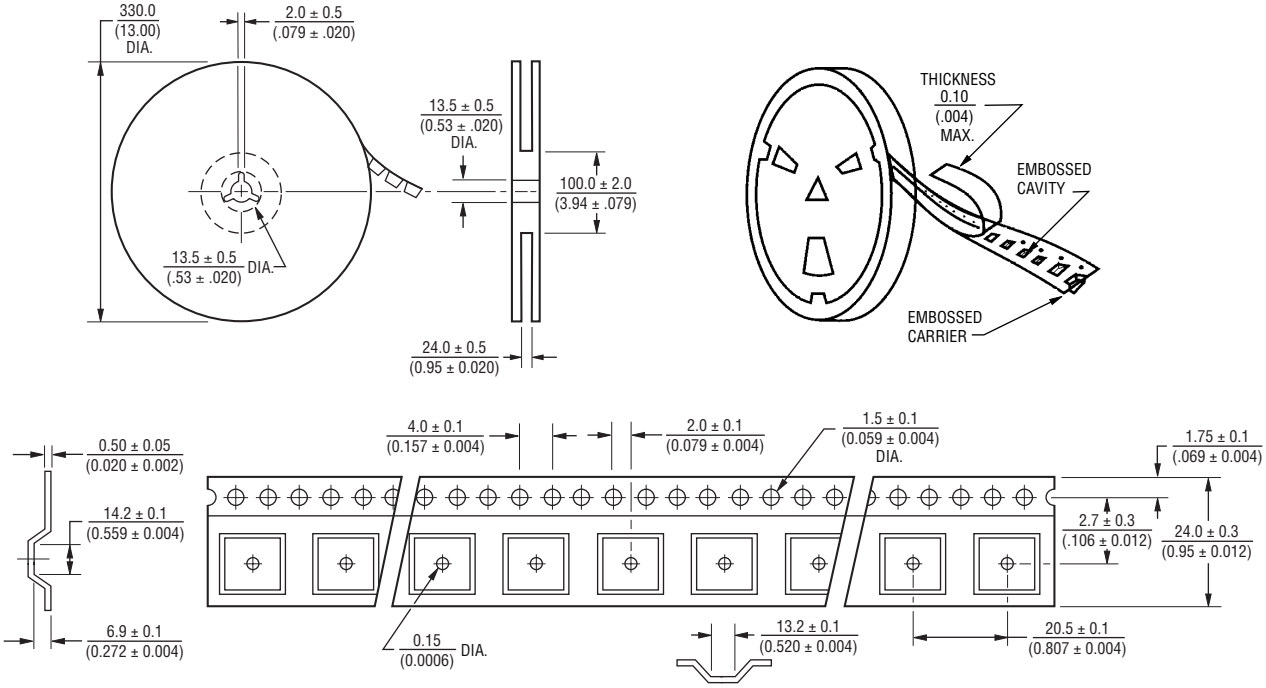
SRP1270-8R2M



SRP1270-100M



Packaging Specifications



DIMENSIONS: MM / (INCHES)

REV. 08/09