



## Features

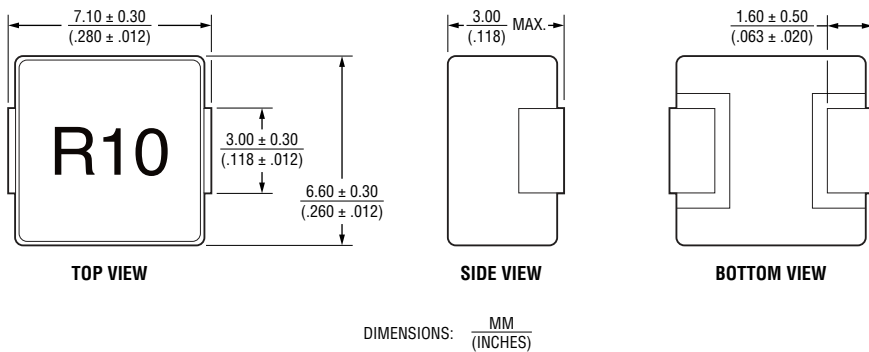
- Shielded construction for low radiation
- Metal alloy powder core
- High saturation current
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant\* and halogen free\*\*

## SRP6530A Series – Shielded Power Inductors

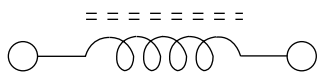
### Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 500 kHz / 0.25 V		Q (MHz) Typ.	Q Test Freq. (MHz)	SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	Irms (A) Typ.	Isat (A) Typ.
	L (μH)	Tol. %							
SRP6530A-R10M	0.10	20	14	25.2	200	1.5	1.7	34.0	70.0
SRP6530A-R22M	0.22	20	12	25.2	145	2.5	2.8	25.5	50.0
SRP6530A-R33M	0.33	20	12	25.2	140	3.5	3.9	21.5	35.0
SRP6530A-R47M	0.47	20	10	25.2	80	4.0	4.2	21.0	30.0
SRP6530A-R56M	0.56	20	12	25.2	78	5.0	5.5	18.0	28.0
SRP6530A-R68M	0.68	20	8	25.2	75	5.1	5.5	17.5	28.0
SRP6530A-R82M	0.82	20	8	25.2	68	6.7	7.8	14.0	26.0
SRP6530A-1R0M	1.00	20	30	7.96	58	9.0	10.0	12.0	25.0
SRP6530A-1R5M	1.50	20	30	7.96	45	14.0	15.0	10.0	18.0
SRP6530A-2R2M	2.20	20	30	7.96	30	18.0	20.0	10.0	14.0
SRP6530A-3R3M	3.30	20	24	7.96	25	28.0	30.0	8.0	13.5
SRP6530A-4R7M	4.70	20	21	7.96	22	37.0	40.0	6.0	11.0
SRP6530A-5R6M	5.60	20	21	7.96	20	52.0	60.0	5.8	10.5
SRP6530A-6R8M	6.80	20	26	2.52	17	54.0	60.0	5.5	9.0
SRP6530A-8R2M	8.20	20	26	2.52	12	64.0	68.0	5.0	7.5
SRP6530A-100M	10.0	20	26	2.52	10	102.0	105.0	4.0	7.0

### Product Dimensions



### Schematic



### How to Order

**SRP6530A - 100M**

Model \_\_\_\_\_  
Value Code (see table) \_\_\_\_\_

### Additional Information

Click these links for more information:



### General Specifications

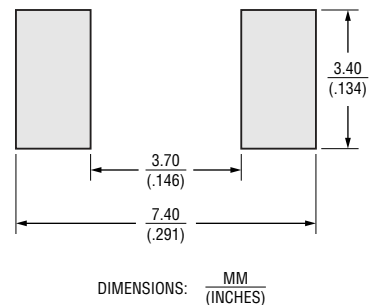
Operating Temperature ..... -55 °C to +155 °C  
(Temperature rise included)  
Storage Temperature (Component) ..... -55 °C to +155 °C  
Temperature Rise .... 40 °C at rated Irms<sup>1</sup>  
Rated Current ..... Inductance drops 30 % at Isat  
Rated Voltage ..... 50 V  
MSL ..... 1  
ESD Classification (HBM)..... N/A

Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all can affect the part temperature. Part temperature should be verified in the end application.

### Materials

Core ..... Metal alloy powder  
Wire ..... Enameled copper  
Terminal Finish ..... Ni/Sn  
Packaging ..... 1000 pcs. per 13-inch reel

### Recommended Layout



\* 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.

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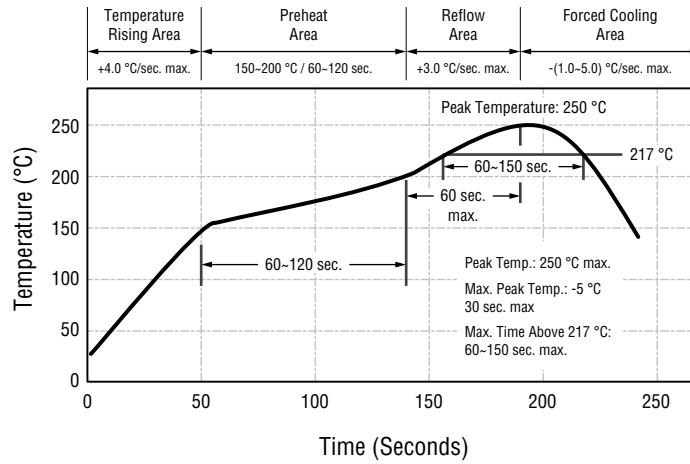


**WARNING**  
**Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

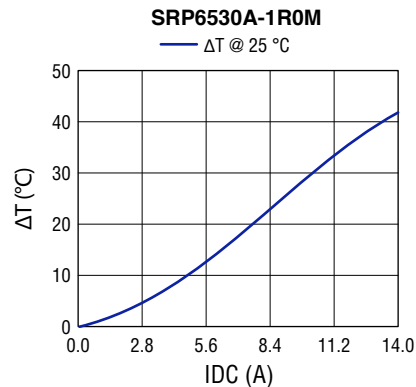
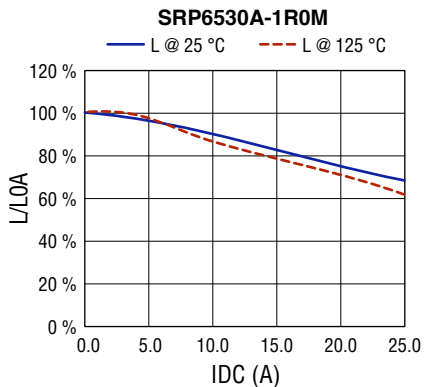
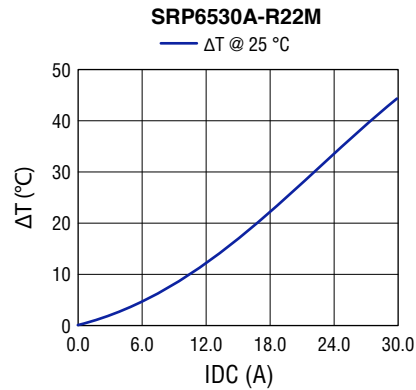
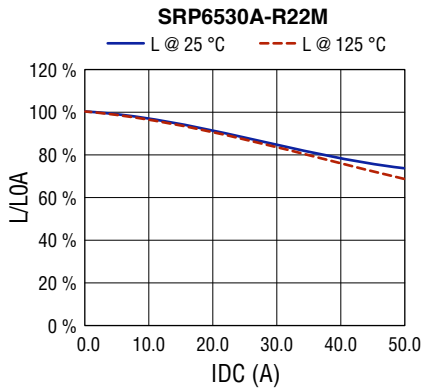
# SRP6530A Series - Shielded Power Inductors



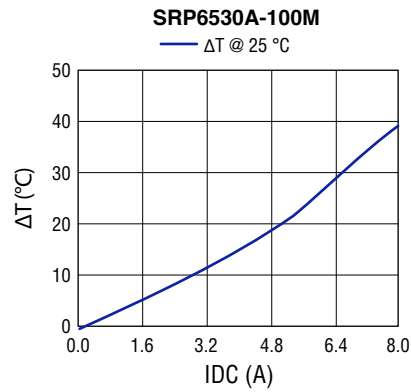
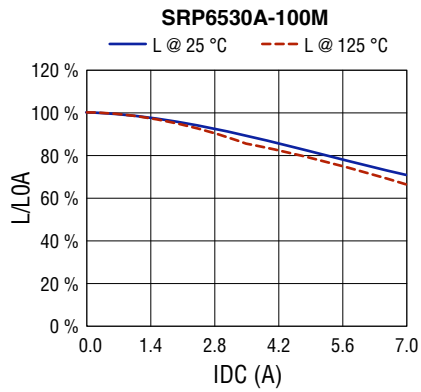
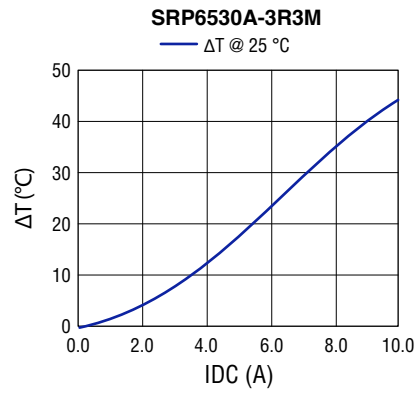
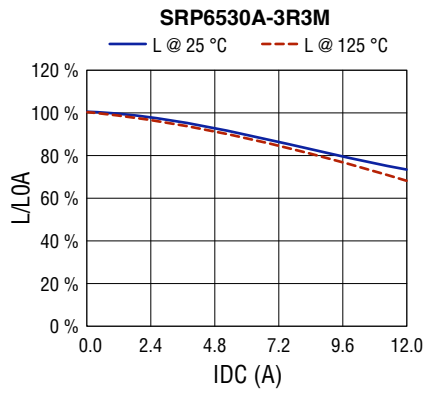
## Soldering Profile



## Inductance vs. IDC



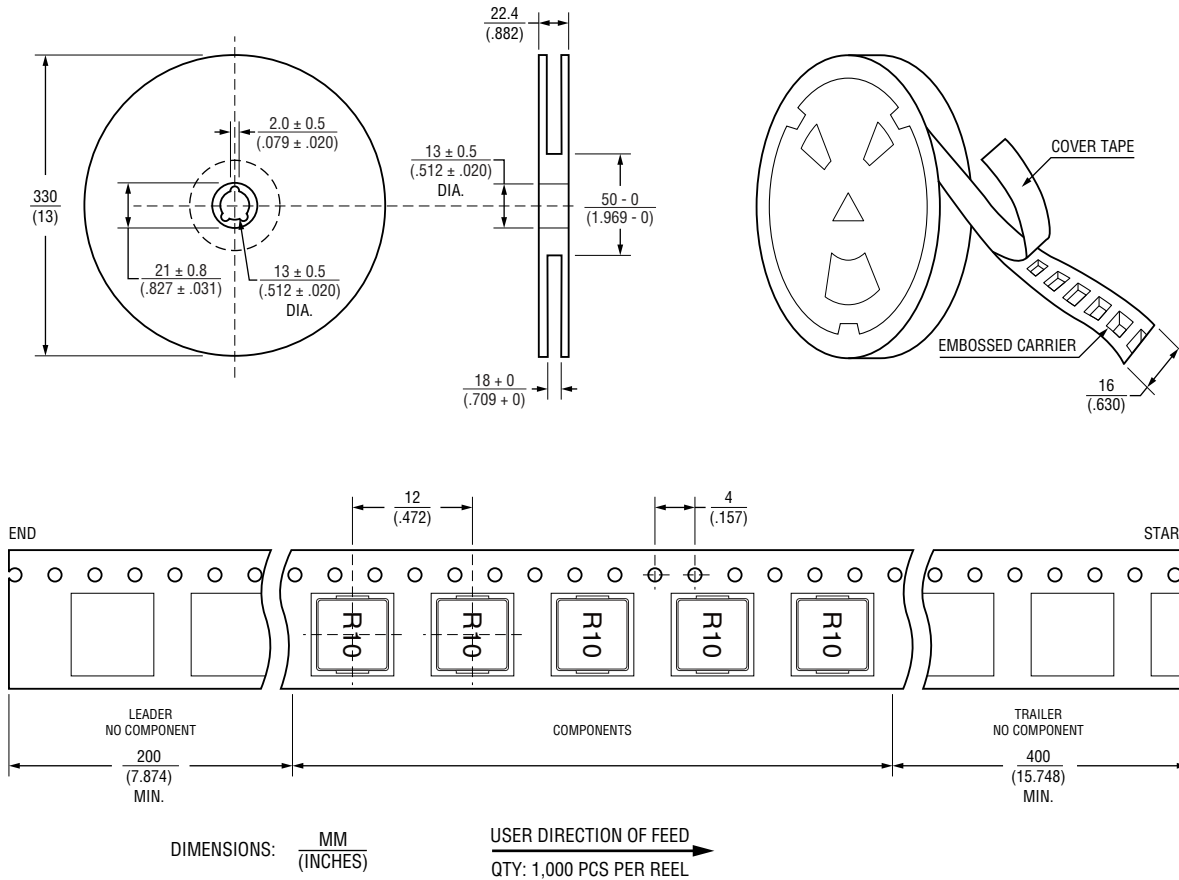
Inductance vs. IDC (continued)



# SRP6530A Series - Shielded Power Inductors

**BOURNS®**

## Packaging Specifications



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REV. 07/21

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