



Features

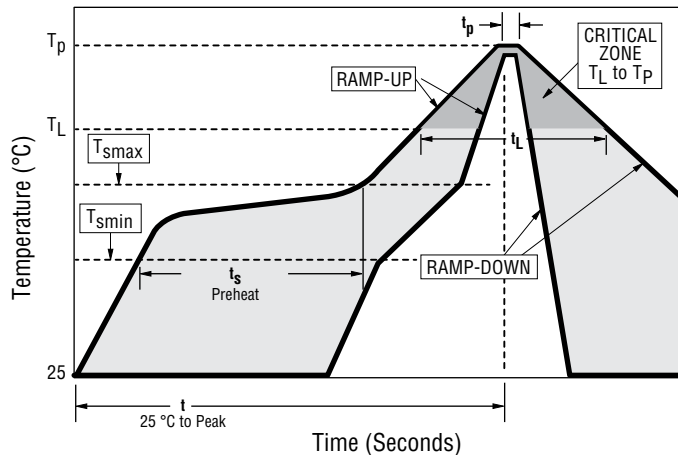
- Wirewound
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low profile
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRP2510A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 1 MHz / 1 V		Q (Typ.) @ 1 MHz / 1 V	SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	Irms (A) Typ.	Isat (A) Typ.
	L (μH)	Tol. (%)						
SRP2510A-R22M	0.22	±20	35	170	9	12.5	5.9	7.9
SRP2510A-R33M	0.33	±20	35	170	21	26	4.4	6.6
SRP2510A-R47M	0.47	±20	35	138	27	32	3.9	5.0
SRP2510A-R68M	0.68	±20	35	120	37	44	3.4	4.3
SRP2510A-1R0M	1.0	±20	35	94	45	54	3.0	3.5
SRP2510A-1R5M	1.5	±20	35	68	76	91	2.5	2.6
SRP2510A-2R2M	2.2	±20	35	57	99	119	2.3	2.4
SRP2510A-4R7M	4.7	±20	35	40	220	262	1.36	1.8

Soldering Profile



Profile Feature	Pb Free Assembly
Average Ramp Rate (Tsmax to Tp)	3 °C/second max.
Preheat - Temperature Min. (Tsmin) - Temperature Max. (Tsmax) - Time (tsmin to tsmax)	150 °C 200 °C 60-180 seconds
Time Maintained Above - Temperature (Tl) - Time (tl)	217 °C 60-150 seconds
Peak Temperature (Tp)	260 °C +0/-5 °C
Time within 5 °C of Actual Peak Temperature (Tp)	20-40 seconds
Ramp-Down Rate	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.



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

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 **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

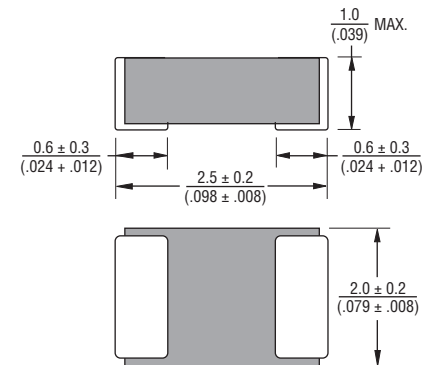
General Specifications

Operating Temperature...-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature (Component)
-50 °C to +125 °C
 Rated Current
 Inductance drops 30 % at Isat
 Temperature Rise40 °C at rated Irms
 Moisture Sensitivity Level (MSL) 1
 ESD Classification (HBM).....N/A

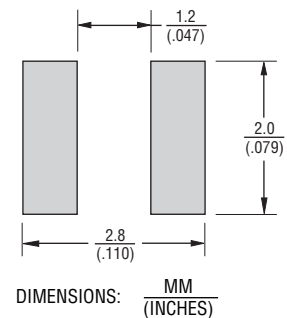
Materials

Core.....Metal alloy powder
 Wire.....Enameled copper
 Terminal FinishSn
 Packaging..... 3000 pcs. per 7-inch reel

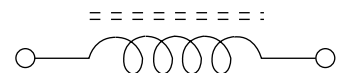
Product Dimensions



Recommended Layout



Electrical Schematic



How to Order

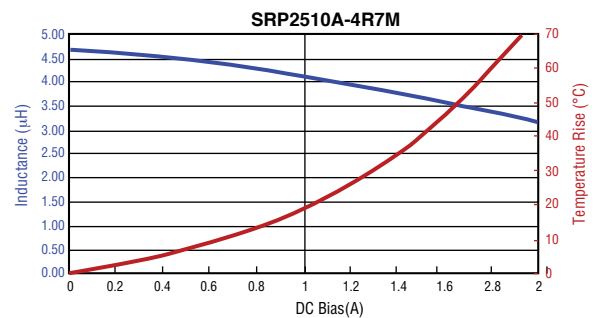
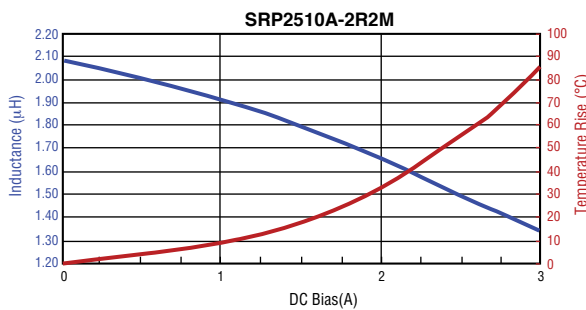
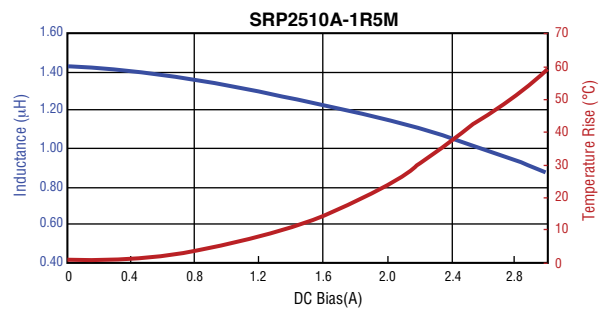
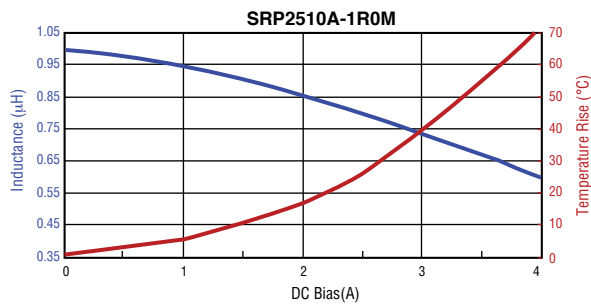
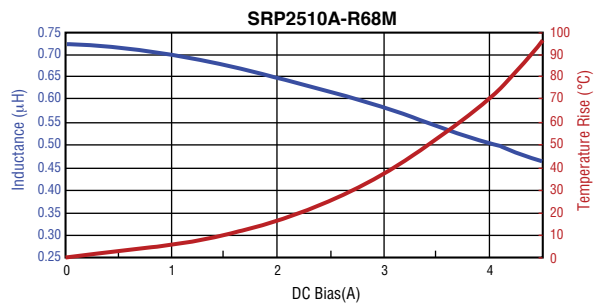
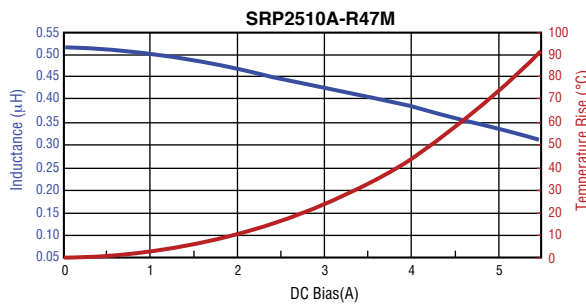
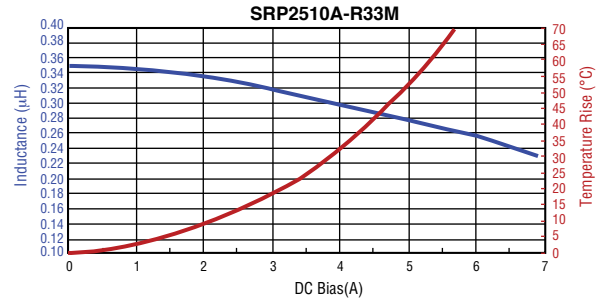
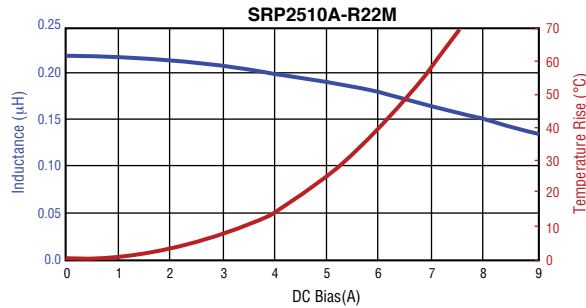
SRP2510A - R22M

Model _____
 Value Code (see table) _____

SRP2510A Series - Shielded Power Inductors

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L vs. I Charts



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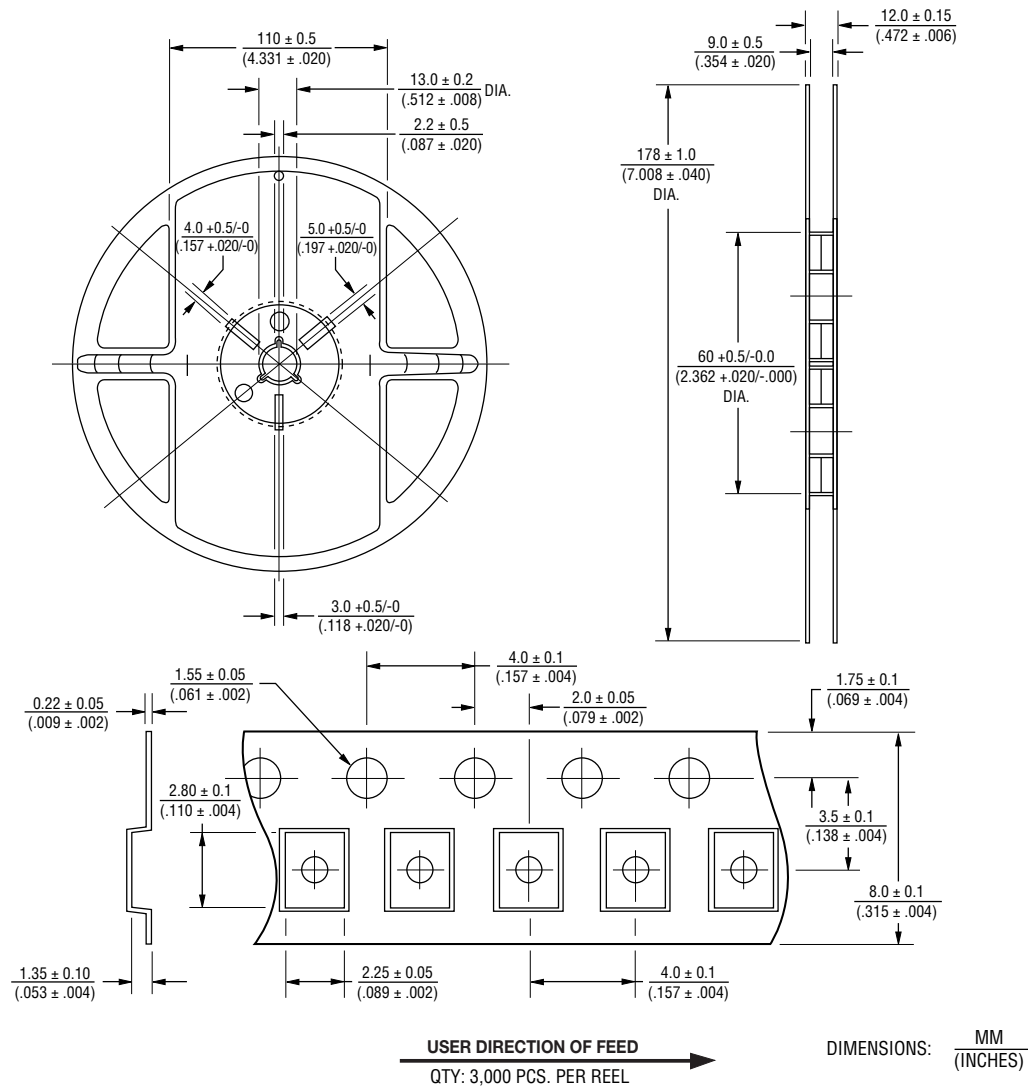
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SRP2510A Series - Shielded Power Inductors

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Packaging Specifications



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REV. 08/17

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