



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



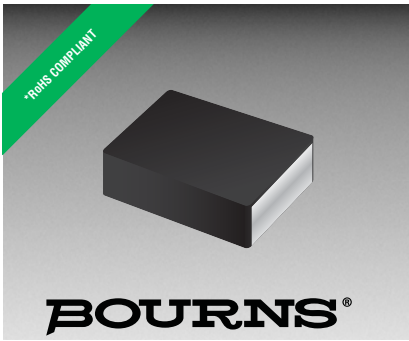
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Features

- Wirewound construction
- Iron powder core
- Magnetically shielded construction provides low radiation
- Low DC resistance
- Low profile
- RoHS compliant*

Applications

- DC/DC converters for:
 - Smart phones
 - DVC/DSCs
 - Tablets
 - HDD/SSDs
 - Mobile electronic devices

SRP2512 Series - SMD Power Inductors

Electrical Specifications @ 25 °C

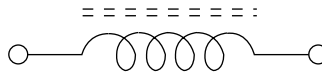
Bourns Part Number	Inductance @ 1 MHz / 1 V		DCR (mΩ) Max.	I _{rms} (A)	I _{sat} (A)
	L (μH)	Tol. (%)			
SRP2512-R47M	0.47	20	25	4.5	5.3
SRP2512-R68M	0.68	20	35	3.7	4.1
SRP2512-1R0M	1	20	49	3.4	3.4
SRP2512-1R5M	1.5	20	77	2.5	3.2
SRP2512-2R2M	2.2	20	104	2.1	3.0

How to Order

SRP2512 - 1R0M

Model _____
Value Code (see table) _____

Electrical Schematic



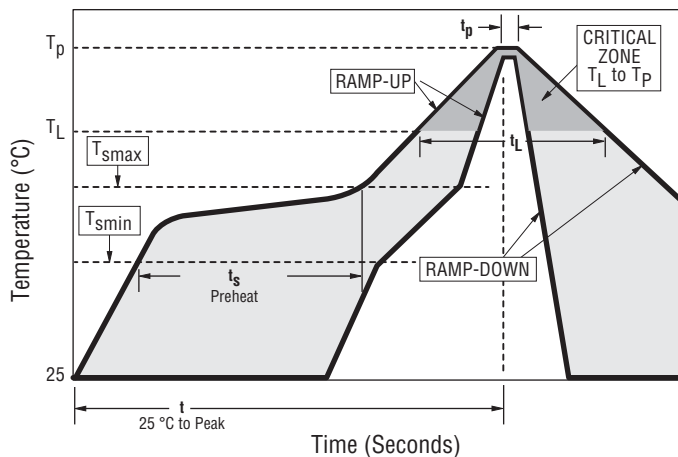
General Specifications

Inductance Test Frequency ... 1 MHz/1 V
 Operating Temperature-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature-50 °C to +125 °C
 Rated Current Inductance drops 30 % at I_{sat}
 Temperature Rise40 °C at rated I_{rms}
 Resistance to Soldering Heat.....+260 °C

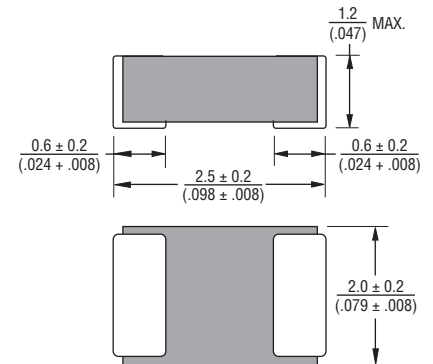
Materials

Core..... Iron powder
 Terminal..... Ni/Sn
 Packaging..... 3000 pcs. per 7-inch reel

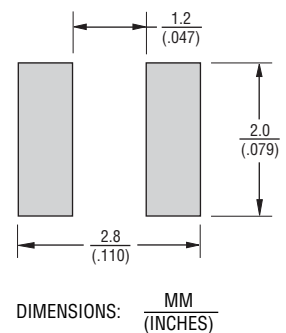
Soldering Profile



Product Dimensions



Recommended Layout



Profile Feature	Pb Free Assembly
Average Ramp Rate (T _{Smax} to T _p)	3 °C/second max.
Preheat <ul style="list-style-type: none"> - Temperature Min. (T_{Smin}) - Temperature Max. (T_{Smax}) - Time (t_{Smin} to t_{Smax}) 	150 °C 200 °C 60-180 seconds
Time Maintained Above <ul style="list-style-type: none"> - Temperature (T_L) - Time (t_L) 	217 °C 60-150 seconds
Peak Temperature (T _p)	260 °C +0/-5 °C
Time within 5 °C of Actual Peak Temperature (T _p)	20-40 seconds
Ramp-Down Rate	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

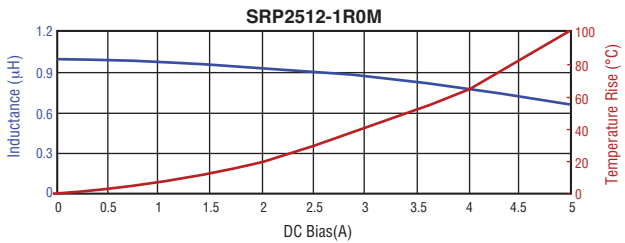
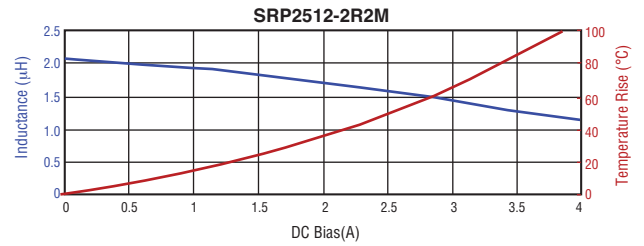
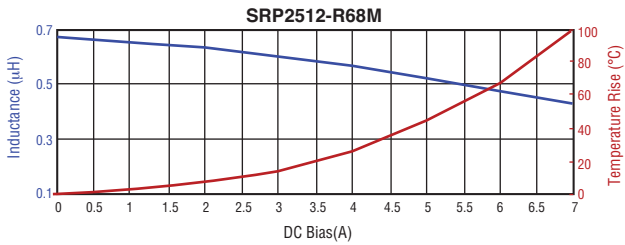
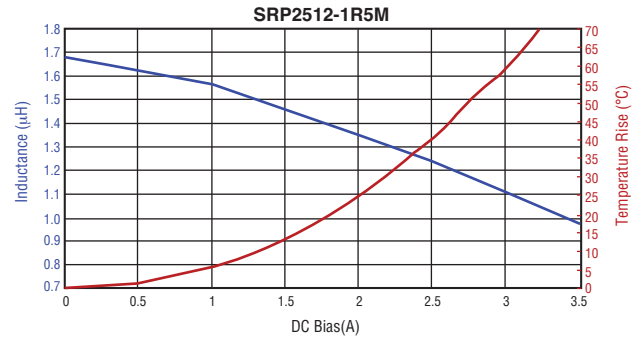
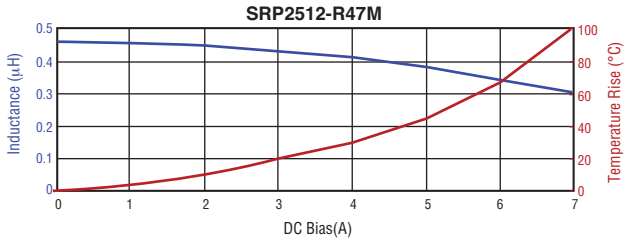
* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

SRP2512 Series - SMD Power Inductors



L vs. I Charts

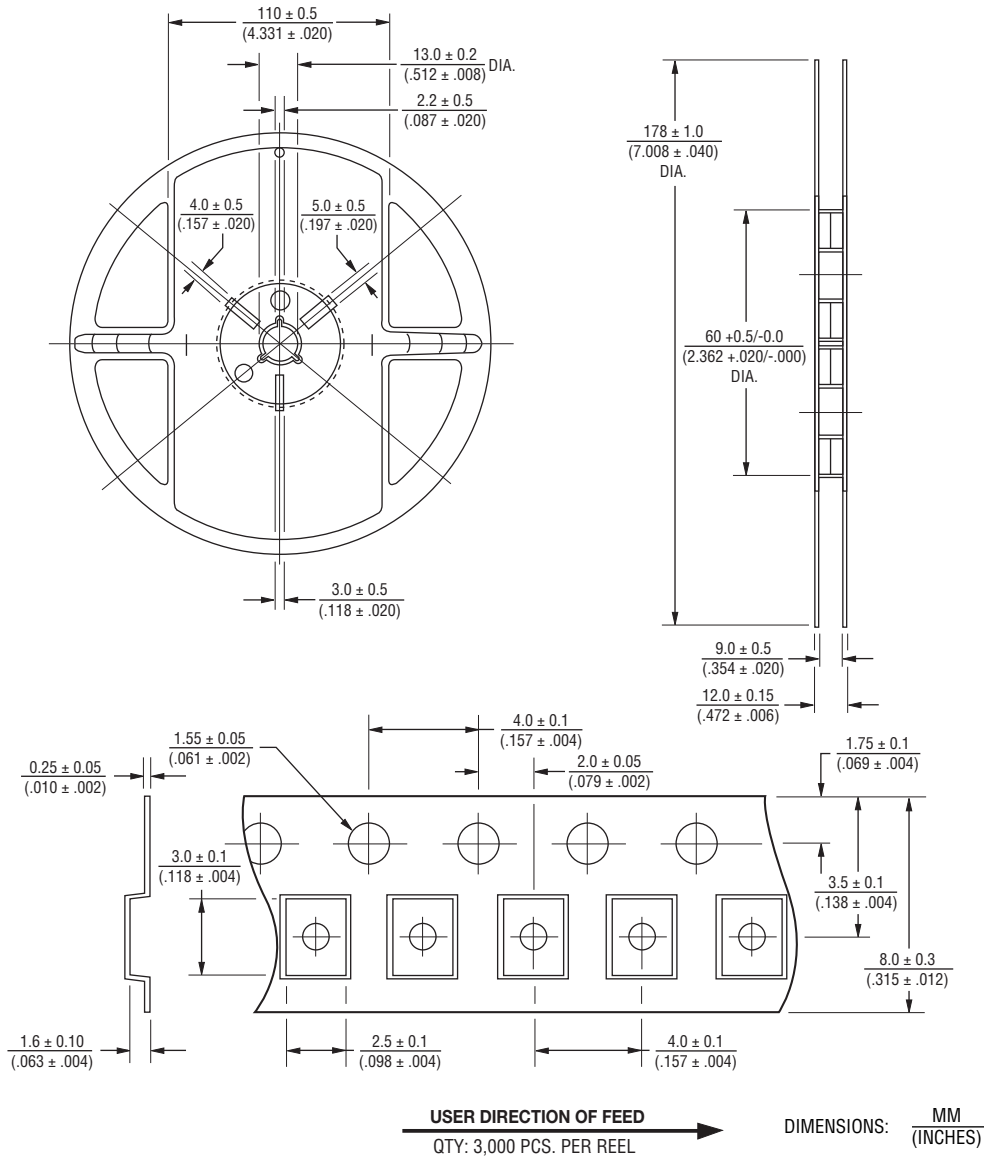


Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

SRP2512 Series - SMD Power Inductors

BOURNS®

Packaging Specifications



BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

www.bourns.com

REV. 02/15

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.