



Features

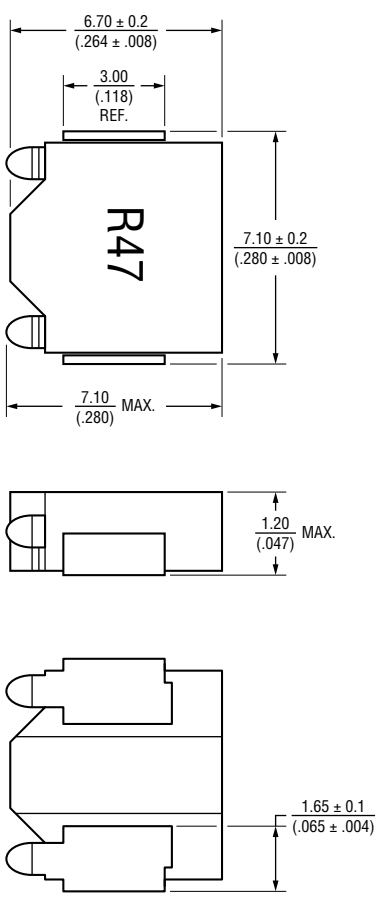
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- RoHS compliant* and halogen free**

SRP0612 Series - Shielded Power Inductors

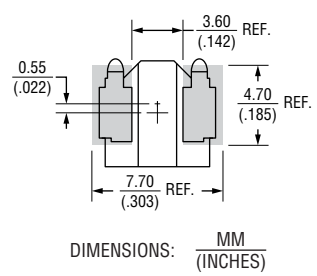
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		Q Typ.	Q Test Freq, (MHz)	SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	I _{rms} (A) Typ.	Isat (A) Typ.
	L (μH)	Tol. (%)							
SRP0612-R47K	0.47	10	21	25.2	68	14.8	17.1	7.7	15.5
SRP0612-R68K	0.68	10	21	25.2	55	20.0	22.3	7.0	15.0
SRP0612-1R0K	1.00	10	54	7.96	42	23.8	27.5	6.2	12.0
SRP0612-1R5K	1.50	10	42	7.96	22	28.5	32.8	6.0	9.0
SRP0612-2R2K	2.20	10	22	7.96	32	33.2	38.8	5.5	7.0
SRP0612-3R3K	3.30	10	28	7.96	18	43.1	50.0	5.0	5.5
SRP0612-4R7K	4.70	10	32	7.96	15	70.0	82.0	3.9	5.0
SRP0612-6R8K	6.80	10	29	7.96	14	107.0	125.0	3.0	4.0
SRP0612-100K	10.0	10	26	2.52	10	135.0	157.0	2.7	3.0

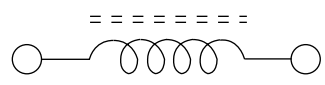
Product Dimensions



Recommended Layout



Electrical Schematic



Additional Information

Click these links for more information:







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[TECHNICAL LIBRARY](#)
[INVENTORY](#)
[SAMPLES](#)
[CONTACT](#)

General Specifications

Operating Temperature
 -40 °C to +125 °C
 (Temperature rise included)
Storage Temperature (Component)
 -40 °C to +125 °C
Rated Current
 Inductance drops 30 % at Isat
Temperature Rise ... 40 °C at rated I_{rms}
Rated Voltage 50 V
Moisture Sensitivity Level 1
ESD Classification (HBM) N/A
 Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

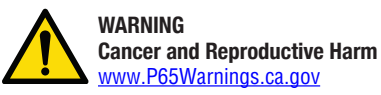
Core Metal alloy powder
Wire Enameled copper
Terminal Finish Sn
Packaging 2500 pcs. per 13-inch reel

Please consult [Bourns® Model SRP-A Series Visual Inspection Guide](#) for detailed construction, processing and testing information.

How to Order

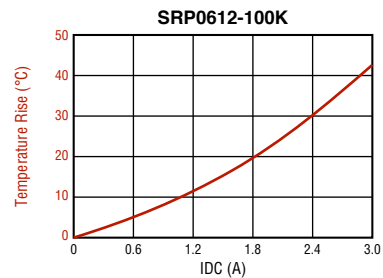
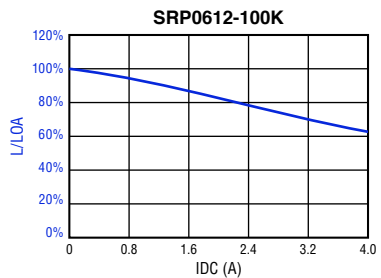
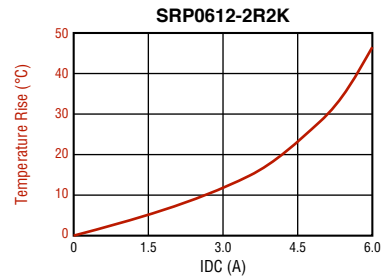
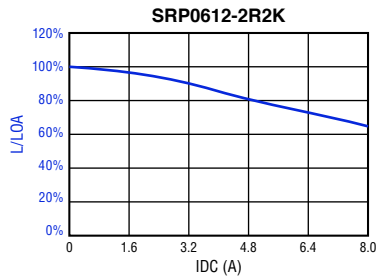
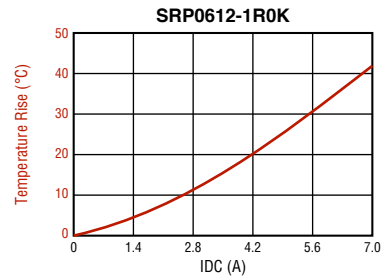
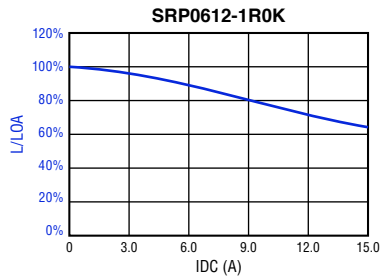
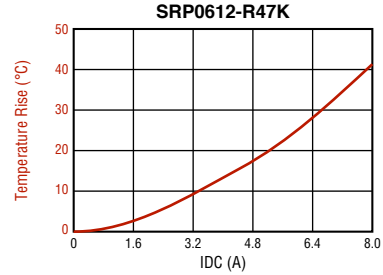
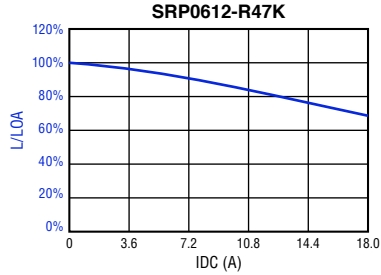
SRP0612 - 4R7K

Model _____
 Value Code (see table) _____



* 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. 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.

L vs. I Charts



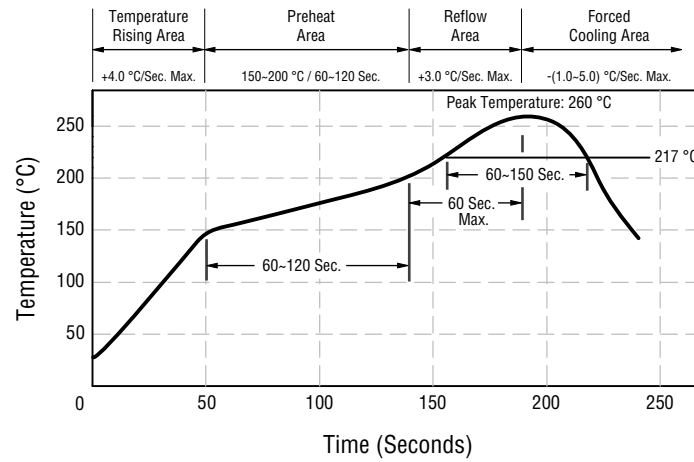
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Soldering Profile

Peak Temperature: 260 °C max.
 Max. Peak Temperature -5 °C: 30 sec. max.
 Max. Time Above 217 °C: 60~150 sec. max.



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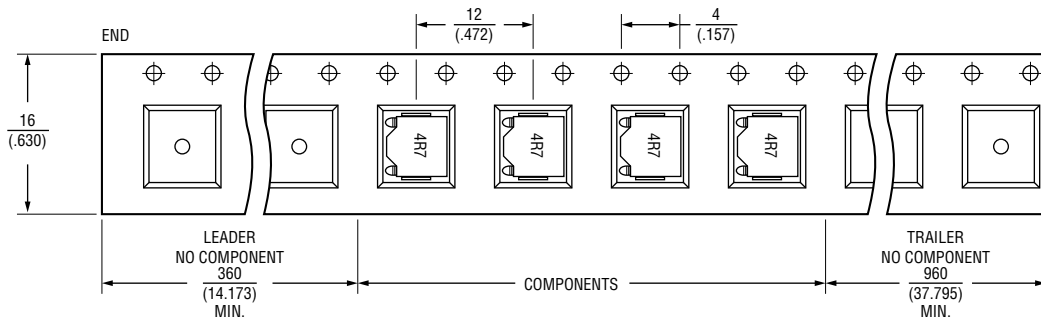
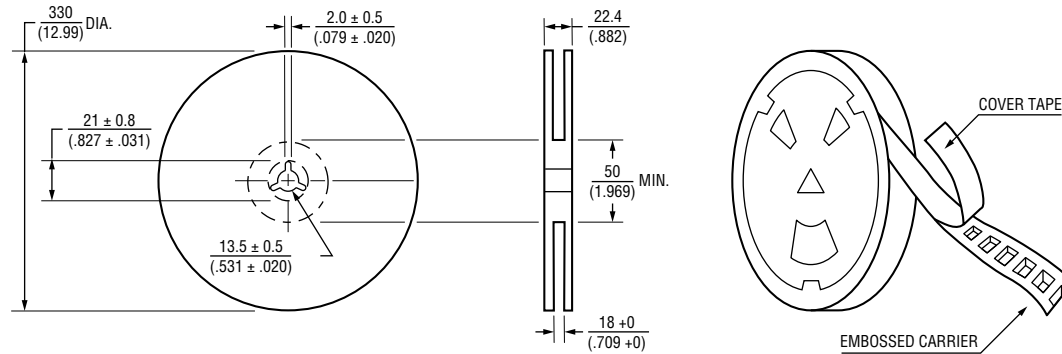
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SRP0612 Series - Shielded Power Inductors

BOURNS®

Packaging Specifications



USER DIRECTION OF FEED
 QTY: 2,500 PCS PER REEL

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

BOURNS®

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EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

REV. 06/22

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