

### **Features**

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

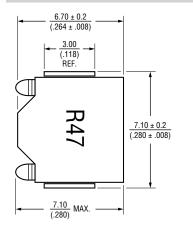
# **BOURNS**

# **SRP0615 Series - Shielded Power Inductors**

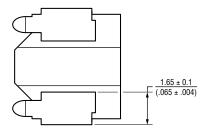
### Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		Q Typ.	Q Test Freq,	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	Isat (A)
	L (μH)	Tol. (%)	ıyρ.	(MHz)	Тур.	Тур.	Max.	Typ.	Тур.
SRP0615-R47K	0.47	10	20	25.2	71	7.5	8.8	12.5	20.0
SRP0615-R68K	0.68	10	19	25.2	56	9.6	11.2	10.3	18.0
SRP0615-1R0K	1.00	10	54	7.96	40	11.5	13.5	9.8	13.0
SRP0615-1R5K	1.50	10	53	7.96	32	20.5	23.8	7.0	11.0
SRP0615-2R2K	2.20	10	47	7.96	25	28.7	33.5	6.0	9.4
SRP0615-3R3K	3.30	10	43	7.96	27	37.1	43.3	5.3	8.0
SRP0615-4R7K	4.70	10	33	7.96	16	53.0	62.0	4.3	6.0
SRP0615-6R8K	6.80	10	31	7.96	14	75.0	87.0	3.6	5.2
SRP0615-100K	10.0	10	42	2.52	11	102.5	120.0	3.0	3.8

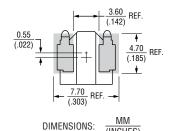
### **Product Dimensions**



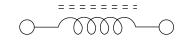




### **Recommended Layout**



### **Electrical Schematic**



#### **Additional Information**

Click these links for more information:











INVENTORY SAMPLES

### **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 Irms1 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**

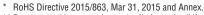
Core..... Metal alloy powder Wire ......Enameled copper Terminal Finish ......Sn Packaging..... 2000 pcs. per 13-inch reel

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

### **How to Order**

SRP0615 - 4R7K

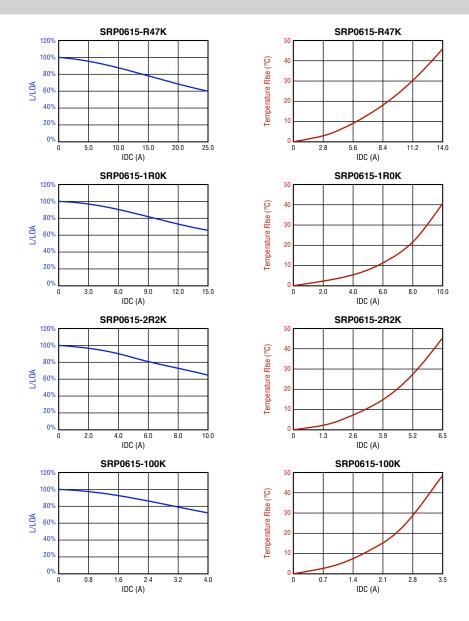
Model -Value Code (see table) -



Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) 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.



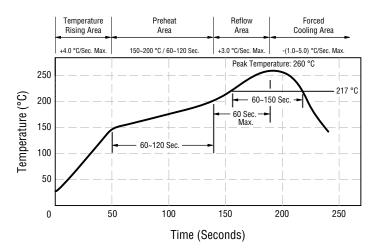
### L vs. I Charts



# **SRP0615 Series - Shielded Power Inductors**

### **Soldering Profile**

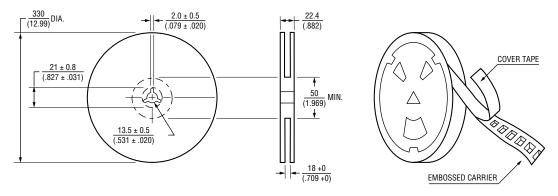
Peak Temperature: 260 °C max. Max. Peak Temperature -5 °C: 30 sec. max. Max. Time Above 217 °C: 60~150 sec. max.

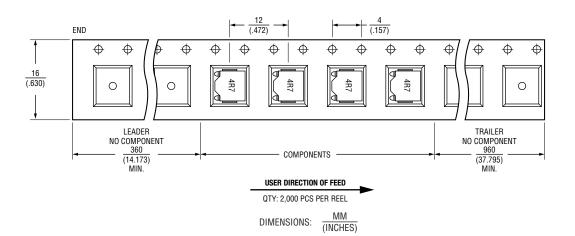


# **SRP0615 Series - Shielded Power Inductors**

# BOURNS

### **Packaging Specifications**





# **BOURNS®**

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

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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Users should verify actual device performance in their specific applications.

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