

#### **Features**

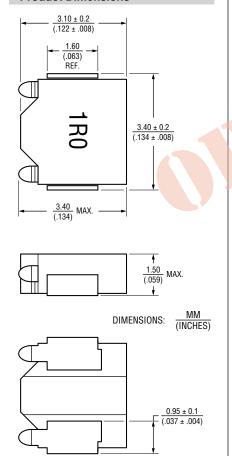
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- RoHS compliant\* and halogen free\*\*

# **SRP0315 Series - Shielded Power Inductors**

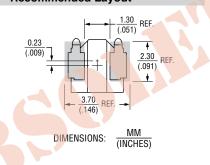
#### Electrical Specifications @ 25 °C

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. (%)	ıyp.	(MHz)	Тур.	Тур.	Max.	Тур.	Тур.
SRP0315-R47K	0.47	10	10	25.2	85	10.6	12.3	9.0	8.1
SRP0315-R68K	0.68	10	8	25.2	76	14.6	17.2	7.1	6.4
SRP0315-1R0K	1.00	10	25	7.96	52	24.3	28.1	5.6	6.5
SRP0315-1R5K	1.50	10	14	7.96	46	40.5	48.0	4.1	4.4
SRP0315-2R2K	2.20	10	16	7.96	41	51.0	60.5	3.7	3.6
SRP0315-3R3K	3.30	10	25	7.96	34	110.0	129.0	2.5	3.4
SRP0315-4R7K	4.70	10	21	7.96	25	130.0	152.0	2.3	2.7

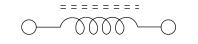
#### **Product Dimensions**



### Recommended Layout



#### **Electrical Schematic**



#### **Additional Information**

Click these links for more information:









PRODUCT

IRRARY INVENTORY

IPLES C

CONTAC

#### **General Specifications**

Operating Temperature

.....-40 °C to +125 °C (Temperature rise included)
Storage Temperature (Component)

.....-40 °C to +125 °C Rated Current

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 3000	pcs. per 13-inch reel

#### **How to Order**

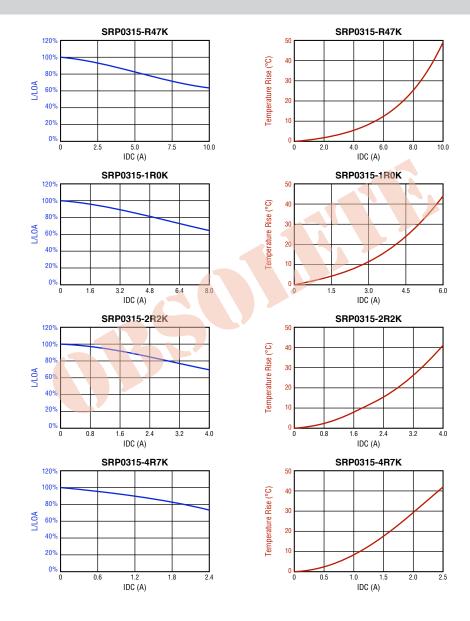
SRP0315 - 4R7K



#### WARNING Cancer and Reproductive Harm <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

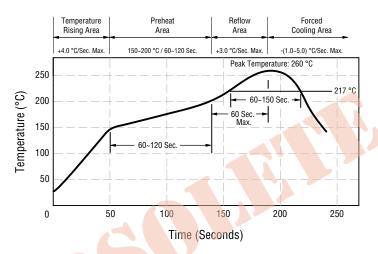
- \* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
- \*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

### L vs. I Charts



### **Soldering Profile**

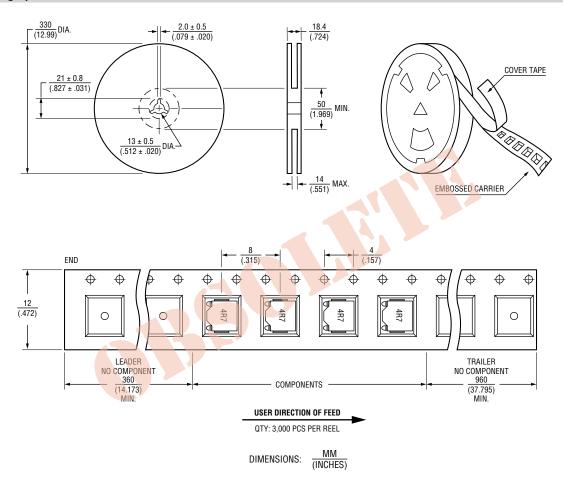
Peak Temperature: 260 °C max. Max. Peak Temperature -5 °C: 30 sec. max. Max. Time Above 217 °C: 60~150 sec. max.



# **SRP0315 Series - Shielded Power Inductors**

# BOURNS

#### **Packaging Specifications**



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