

Features

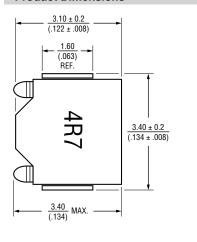
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- RoHS compliant* and halogen free**

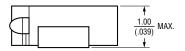
SRP0310 Series - Shielded Power Inductors

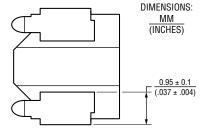
Electrical Specifications @ 25 °C

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.
SRP0310-R47K	0.47	10	18	25.2	90	22.5	26.5	5.6	7.0
SRP0310-R68K	0.68	10	18	25.2	70	30.5	35.5	4.6	6.0
SRP0310-1R0K	1.00	10	16	7.96	64	49.0	58.5	3.4	5.6
SRP0310-1R5K	1.50	10	16	7.96	56	88.0	105.0	2.4	4.2
SRP0310-2R2K	2.20	10	16	7.96	40	99.5	118.0	2.3	2.7
SRP0310-3R3K	3.30	10	12	7.96	32	135.0	160.0	2.1	2.2
SRP0310-4R7K	4.70	10	18	7.96	25	183.0	215.0	1.8	2.1

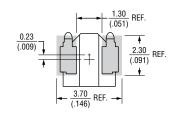
Product Dimensions





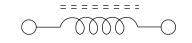


Recommended Layout



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

Electrical Schematic



Additional Information

Click these links for more information:











PRODUCT

TECHNICAL INV

INVENTORY SAMP

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 4000	pcs. per 13-inch reel

How to Order

SRP0310 - 4R7K

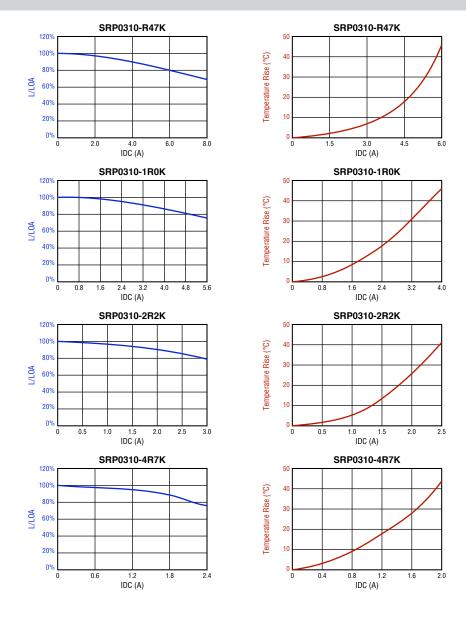
Model — Value Code (see table) — Value Code (see table) — Value Code (see table) — Value Code (see table)



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

- * 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.

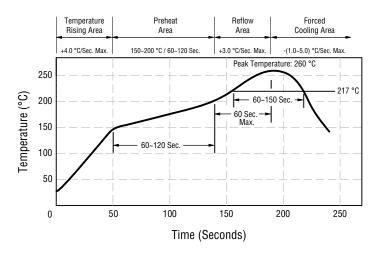
L vs. I Charts



SRP0310 Series - Shielded Power Inductors

Soldering Profile

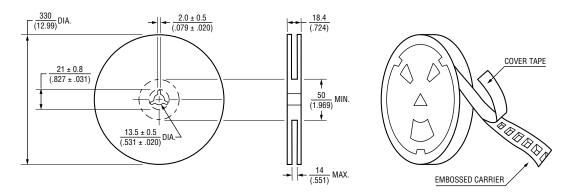
Peak Temperature: 260 °C max. Max. Peak Temperature -5 °C: 30 sec. max. Max. Time Above 217 °C: 60~150 sec. max.

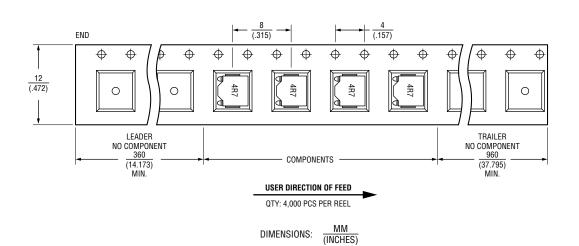


SRP0310 Series - Shielded Power Inductors

BOURNS

Packaging Specifications





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