

Features

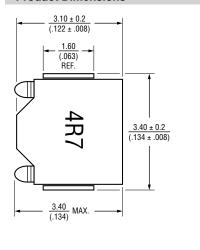
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- RoHS compliant* and halogen free**

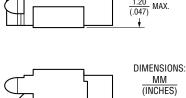
SRP0312 Series - Shielded Power Inductors

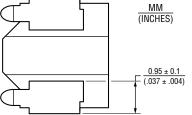
Electrical Specifications @ 25 °C

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. (%)	iyp.	(MHz)	Тур.	Тур.	Max.	Тур.	Тур.
SRP0312-R47K	0.47	10	18	25.2	91	15.3	17.8	6.6	8.0
SRP0312-R68K	0.68	10	14	25.2	77	21.2	24.8	5.6	6.0
SRP0312-1R0K	1.00	10	23	7.96	59	29.0	34.0	4.7	5.0
SRP0312-1R5K	1.50	10	28	7.96	45	49.0	58.0	3.6	4.3
SRP0312-2R2K	2.20	10	28	7.96	38	63.5	74.0	3.1	3.7
SRP0312-3R3K	3.30	10	22	7.96	36	110.0	129.0	2.4	3.0
SRP0312-4R7K	4.70	10	22	7.96	29	175.0	210.0	1.9	2.5

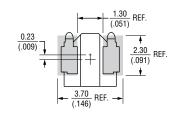
Product Dimensions





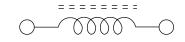


Recommended Layout



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

Electrical Schematic



Additional Information

Click these links for more information:











PRODUCT

<u>ECHNICAL</u> <u>INVE</u> <u>LIBRARY</u>

INVENTORY SAMPLES

CUNTAC

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

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

How to Order

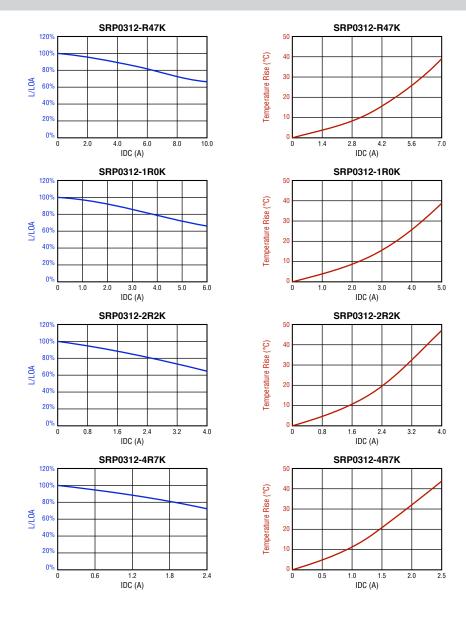
SRP0312 - 4R7K



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.

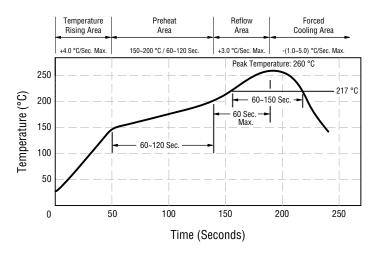
L vs. I Charts



SRP0312 Series - Shielded Power Inductors

Soldering Profile

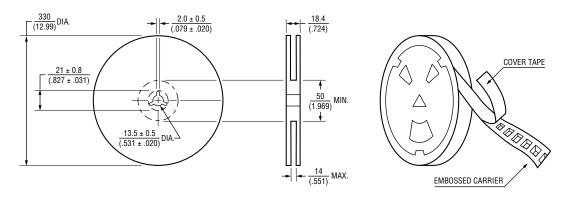
Peak Temperature: 260 °C max. Max. Peak Temperature -5 °C: 30 sec. max. Max. Time Above 217 °C: 60~150 sec. max.

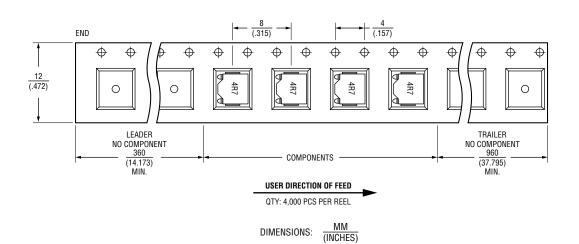


SRP0312 Series - Shielded Power Inductors

BOURNS

Packaging Specifications





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<u>SRP0312-1R0K</u> <u>SRP0312-1R5K</u> <u>SRP0312-2R2K</u> <u>SRP0312-3R3K</u> <u>SRP0312-4R7K</u> <u>SRP0312-R47K</u> <u>SRP03</u>