

Features

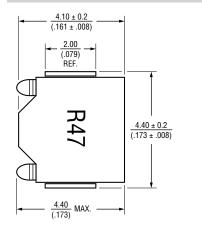
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- RoHS compliant* and halogen free**

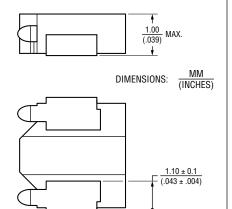
SRP0410 Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

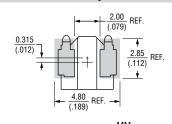
Bourns Part Number	Inductance @ 100 kHz / 1 V		Q Typ.	Q Test Freq,	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	Isat (A)
	L (μH)	Tol. (%)	iyp.	(MHz)	Тур.	Тур.	Max.	Typ.	Тур.
SRP0410-R47K	0.47	10	21	25.2	82	29.0	35.3	5.2	9.2
SRP0410-R68K	0.68	10	16	25.2	71	29.5	36.0	5.2	7.0
SRP0410-1R0K	1.00	10	20	7.96	52	37.5	42.5	4.5	5.3
SRP0410-1R5K	1.50	10	35	7.96	40	56.0	64.0	3.9	4.8
SRP0410-2R2K	2.20	10	22	7.96	33	75.0	87.0	3.0	3.9
SRP0410-3R3K	3.30	10	20	7.96	29	100.0	120.0	2.4	3.3
SRP0410-4R7K	4.70	10	21	7.96	26	180.0	210.0	1.9	2.8
SRP0410-6R8K	6.80	10	12	7.96	20	201.0	245.0	1.8	2.1
SRP0410-100K	10.0	10	20	2.52	16	298.0	350.0	1.4	1.7

Product Dimensions



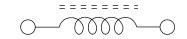


Recommended Layout



Electrical Schematic

DIMENSIONS:



Additional Information

Click these links for more information:











PRODUCT

<u>ECHNICAL</u> <u>INVEN</u> 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

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 p	ocs. per 13-inch reel

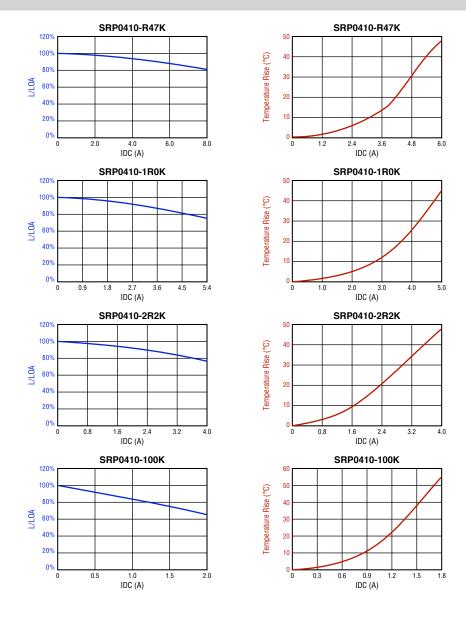
How to Order

SRP0410 - 4R7K

- * 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.



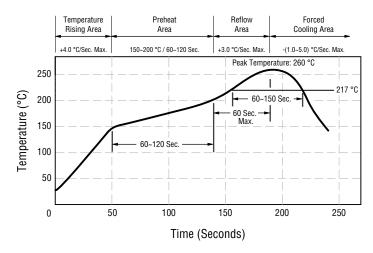
L vs. I Charts



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Soldering Profile

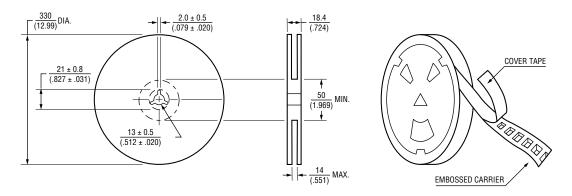
Peak Temperature: 260 °C max. Max. Peak Temperature -5 °C: 30 sec. max. Max. Time Above 217 °C: 60~150 sec. max.

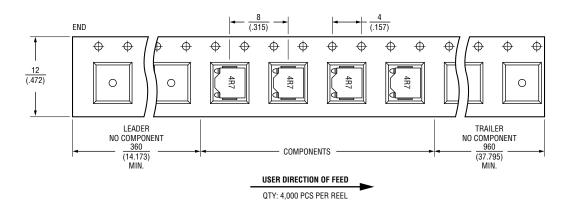


SRP0410 Series - Shielded Power Inductors

BOURNS

Packaging Specifications





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