



Features

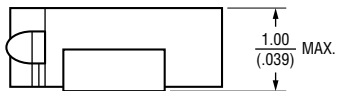
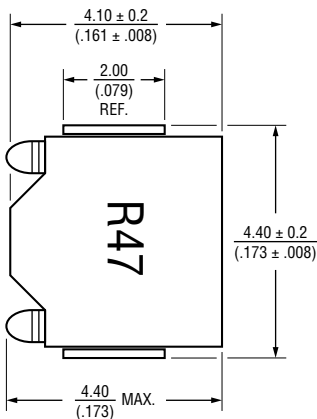
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Flat wire
- RoHS compliant* and halogen free**

SRP0410 Series - Shielded Power Inductors

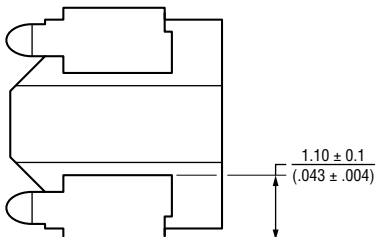
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		Q Typ.	Q Test Freq, (MHz)	SRF (MHz) Typ.	DCR (mΩ) Typ.	DCR (mΩ) Max.	Irms (A) Typ.	Isat (A) Typ.
	L (μH)	Tol. (%)							
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

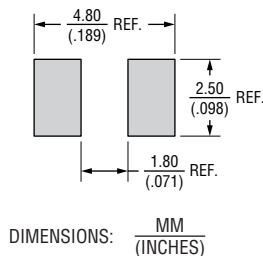
Product Dimensions



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

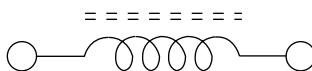


Recommended Layout



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

Electrical Schematic



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..... 4000 pcs. per 13-inch reel

How to Order

SRP0410 - 4R7K

Model _____

Value Code (see table) _____



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

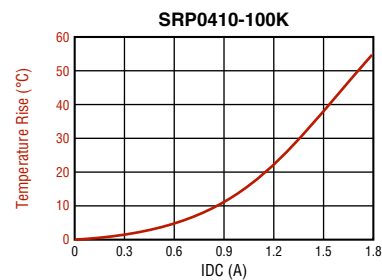
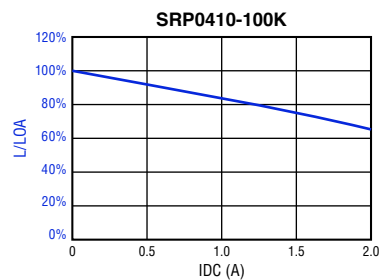
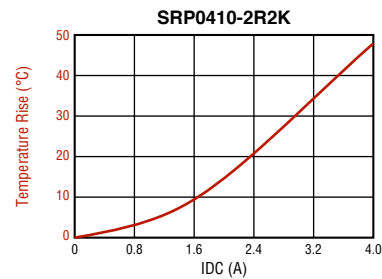
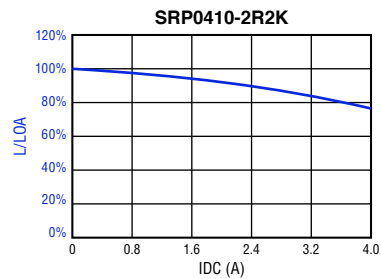
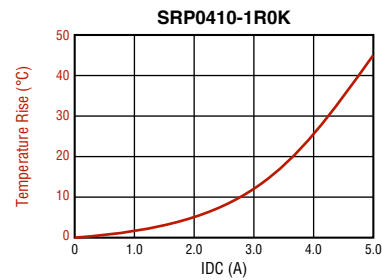
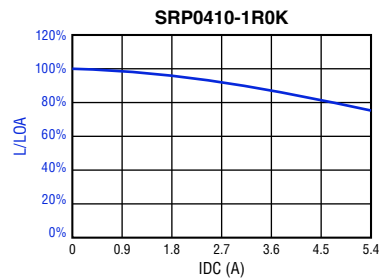
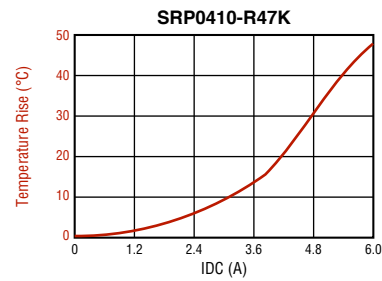
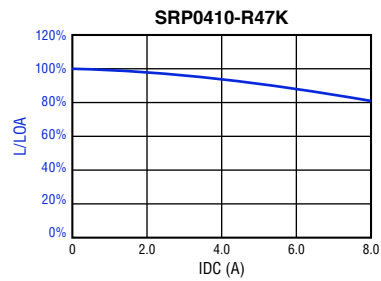
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** 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. 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.

SRP0410 Series - Shielded Power Inductors

BOURNS®

L vs. I Charts



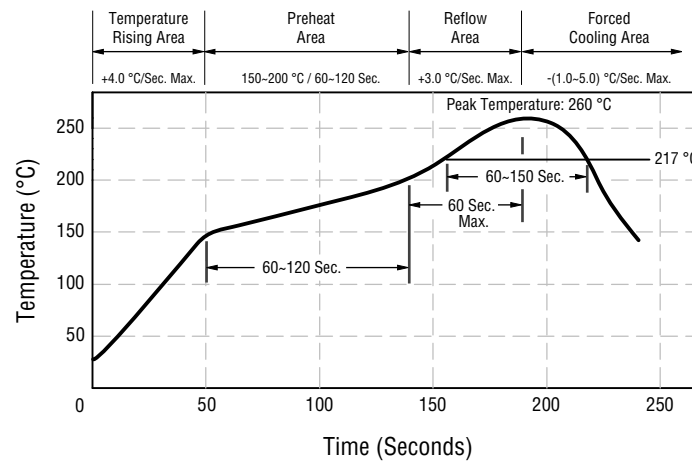
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Soldering Profile

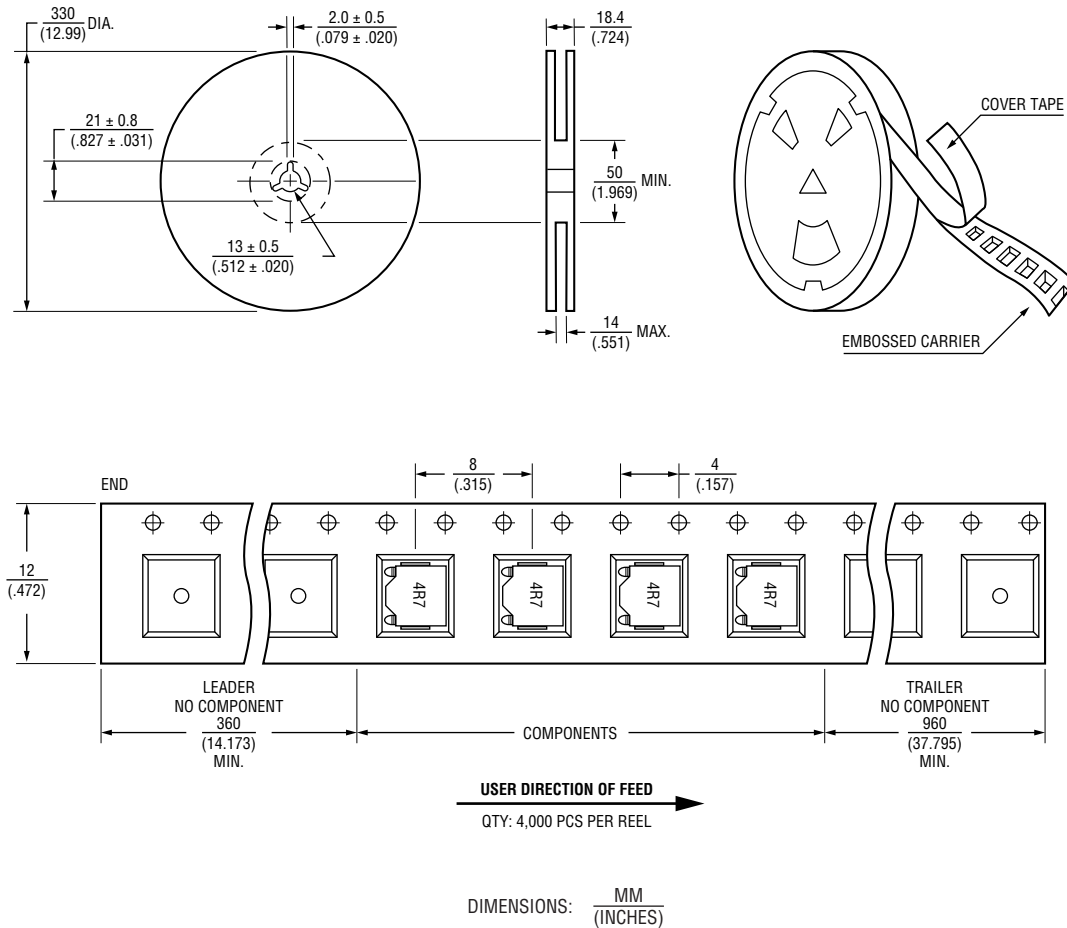
Peak Temperature: 260 °C max.
Max. Peak Temperature -5 °C: 30 sec. max.
Max. Time Above 217 °C: 60~150 sec. max.



SRP0410 Series - Shielded Power Inductors

BOURNS®

Packaging Specifications



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

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REV. 05/20

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