



Features

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



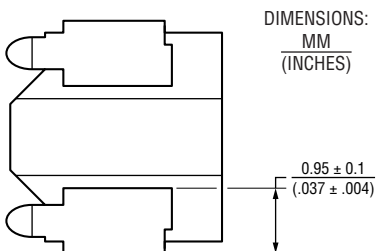
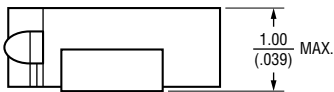
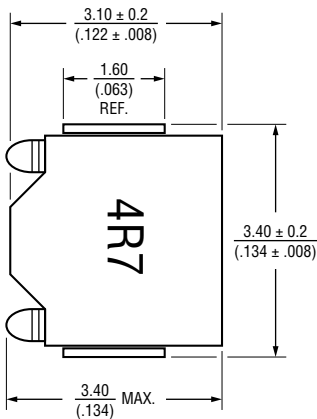
This series is currently available but not recommended for new designs.

SRP0310 Series - Shielded Power Inductors

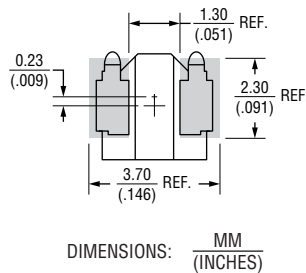
Electrical Specifications @ 25 °C

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

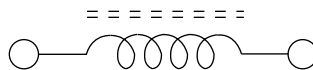
Product Dimensions



Recommended Layout



Electrical Schematic



Additional Information

Click these links for more information:



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[SAMPLES](#)



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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 I_{rms}

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

SRP0310 - 4R7K

Model _____

Value Code (see table) _____



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

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

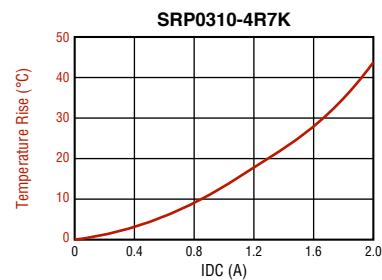
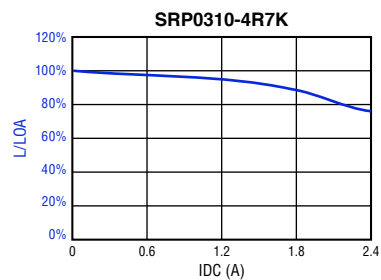
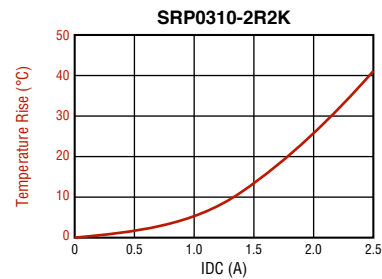
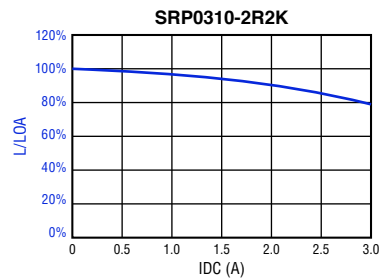
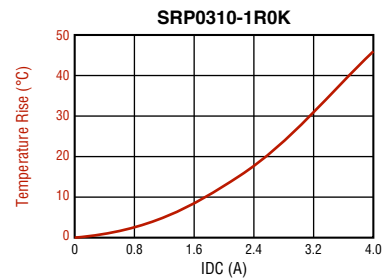
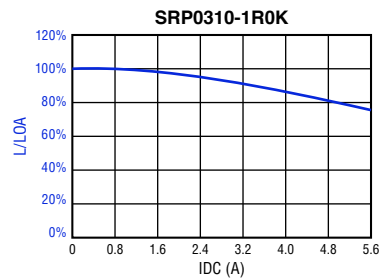
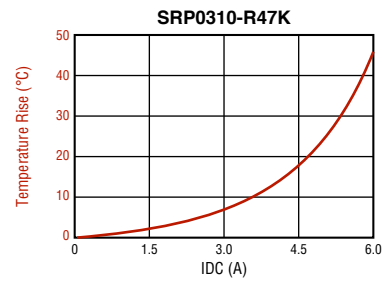
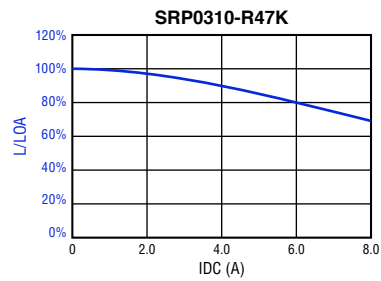
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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SRP0310 Series - Shielded Power Inductors

BOURNS®

L vs. I Charts



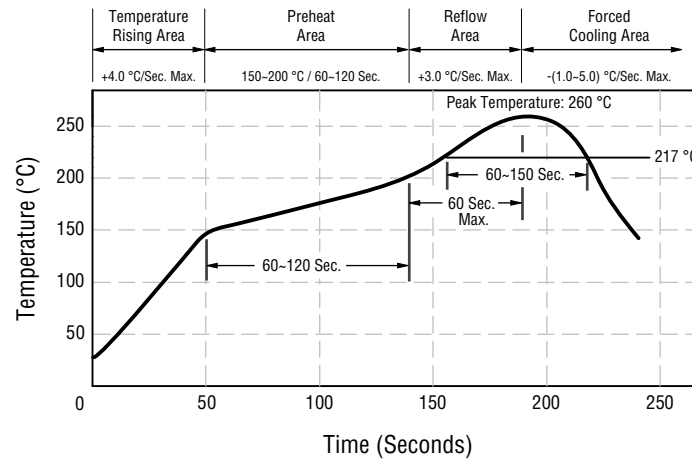
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Soldering Profile

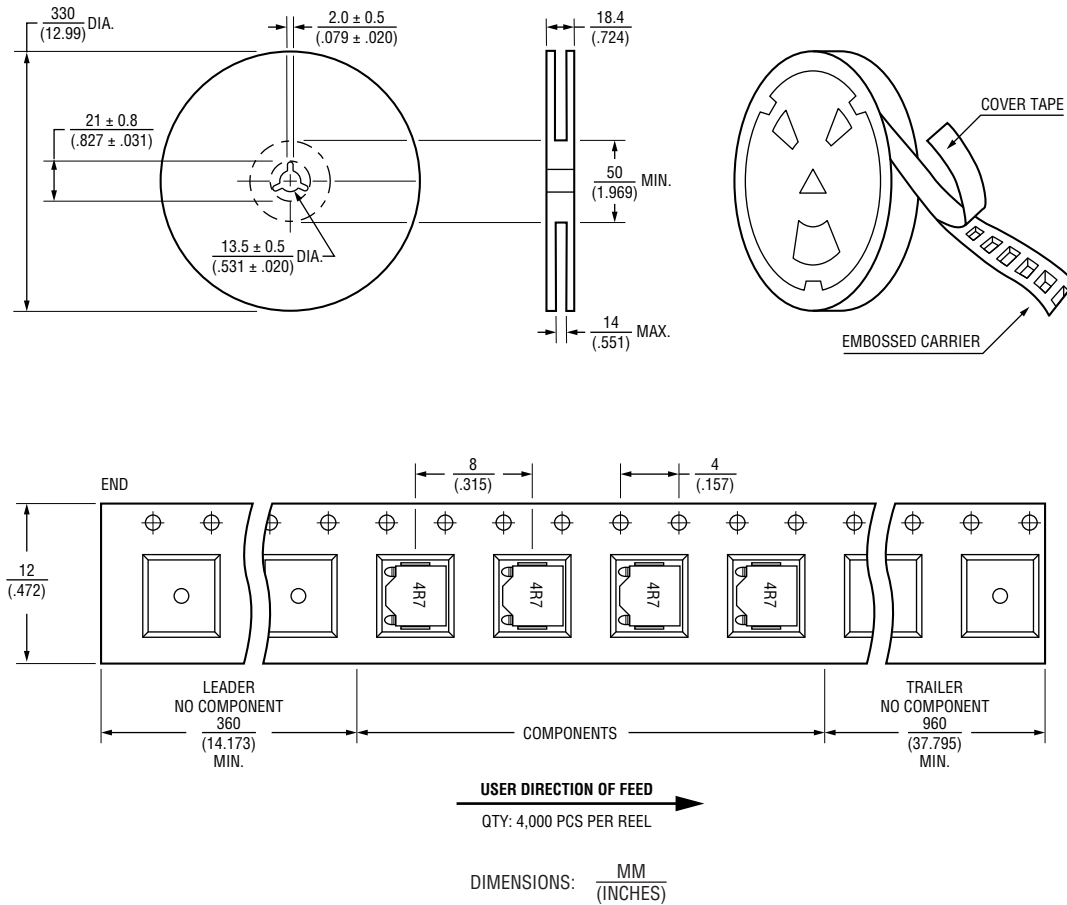
Peak Temperature: 260 °C max.
Max. Peak Temperature -5 °C: 30 sec. max.
Max. Time Above 217 °C: 60~150 sec. max.



SRP0310 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. 07/22

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