



Bourns Releases New High Current Shielded Power Inductors

Model SRP1038CC, SRP1245CC, SRP1265CC, SRP1770CC, SRP2313CC, SRP3012CC, SRP3020CC, SRP4012CC, SRP4020CC, SRP5020CC, SRP5030CC, and SRP7028CC Series

Riverside, California – August 9, 2023 – Bourns Magnetics Product Line is introducing 12 new High Current Shielded Power Inductor Series that have been designed to meet the high current density requirements of a variety of electronic applications.

The Model SRP1038CC, SRP1245CC, SRP1265CC, SRP1770CC, SRP3012CC, SRP3020CC, SRP4012CC, SRP4020CC, SRP5020CC, SRP5030CC, and SRP7028CC Series are manufactured with a carbonyl powder core and the Model SRP2313CC Series is manufactured with a metal alloy powder core for high currents and low buzz noise. These models also have a shielded structure featuring low magnetic and electric field radiation.

These inductors have an operating temperature range of -40 to +125 °C and are well suited for DC-DC converters and power supplies in consumer, industrial, and telecom applications in which higher inductor reliability may be required.

Characteristics:

Model Series	Size (mm)	Inductance (µH)	Heating Current I _{rms} (A)	Saturation Current I _{sat} (A)	Operating Temperature Range (°C)
SRP1038CC	11 x 10 x 3.8	0.1 – 47	3.2 – 53	5 - 85	-40 to +125
SRP1245CC	13.5 x 12.5 x 4.8	0.15 – 22	7.5 – 55	11 - 100	
SRP1265CC	13.5 x 12.5 x 6.2	0.22 – 33	8 – 55	9 - 105	
SRP1770CC	17.6 x 16.9 x 6.7	0.47 – 47	8.7 – 60	13 - 115	
SRP2313CC	23.5 x 22 x 12.6	0.68 – 150	8 – 75	7 - 90	
SRP3012CC	3.5 x 3.2 x 1.0	0.15 – 10	1.1 – 10	1.4 - 14	
SRP3020CC	3.5 x 3.2 x 1.8	0.1 – 10	1.3 – 10	1.3 - 11.5	
SRP4012CC	4.45 x 4.06 x 1.0	0.1 – 22	0.8 - 11.5	1 - 25	
SRP4020CC	4.45 x 4.06 x 1.8	0.1 – 22	1.2 – 14	1.4 - 35	
SRP5020CC	5.7 x 5.2 x 1.8	0.1 – 10	2.5 – 20	3.6 - 36	
SRP5030CC	5.7 x 5.2 x 2.8	0.1 – 10	2.8 – 25	2.8 - 33	
SRP7028CC	7.3 x 6.6 x 2.8	0.1 - 22	2.2 - 37.5	3.6 - 60	

IC23060

Features

- Shielded construction
- Carbonyl / metal alloy powder core
- High saturation current
- High heating current
- Low radiation
- Low buzz noise
- RoHS compliant* and halogen free**

Applications

- DC-DC converters
- Power supplies in consumer, industrial and telecom electronics

Please visit Bourns website at www.bourns.com for additional product details and contact [Bourns Customer Service](#) if you have any questions.

* 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.