BOURNS®

Featured Products Bulletin

INDUCTIVE COMPONENTS

Bourns Releases New Semi-Shielded Power Inductor Models SRN3010, SRN4018, SRN5020 and SRN1060

Riverside, California - REV. December 13, 2012 - Bourns Inductive Components Product Line introduces four additional models designed using semi-magnetic shielding technology. Bourns now has a total of seven SRN models with selections of 3x3 mm to 10x10 mm footprints, 1 mm to 6 mm heights and 0.5 µH to 470 µH inductance. Instead of a conventional ferrite shield, the magnetic shield of the SRN series utilizes an epoxy-ferrite powder mixture resin. This compound is applied to the perimeter of the inductor which completely envelops the winding. As a result, the SRN model series inductors provide effective magnetic shielding while emitting lower radiation compared to non-shielded inductors. In addition, the models offer a reduced footprint and cost savings to comparably-sized conventional ferrite shield inductors.

The semi-shielded SRN model series inductors combine the features of non-shielded and shielded inductors, making them ideal for use in DC/DC converters which provide power management to mobile electronic devices, computers, data storages and consumer electronics. The SRN series is also well-suited for industrial applications such as LED lighting, control circuits and GPS.

Model	Footprint	Height	Inductance Range	Heating Current Range	Saturation Current Range
SRN3010	3 x 3 mm	1 mm	1 – 47 µH	0.35 - 2.3 A	0.28 - 2.3 A
SRN4018	4 x 4 mm	1.8 mm	0.82 – 220 µH	0.28 - 4 A	0.3 - 4.2 A
SRN5020	5 x 5 mm	2 mm	1 – 33 µH	0.9 - 3.6 A	0.8 - 4 A
SRN1060	10 x 10 mm	6 mm	10 – 470 µH	0.8 - 5.4 A	0.8 - 5.2 A

Other existing SRN models are SRN3015, SRN6045 and SRN8040.

Minimum order quantities are 2000 pcs./reel for the SRN3015 and SRN5020, 3000 pcs./reel for the SRN4018 and 650 pcs./reel for the SRN1060 through Bourns authorized distributors. Samples are available upon request.

Please visit Bourns website at www.bourns.com for additional product details.

Features

- Semi-shielded construction
- High inductance
- Inductance range: 0.82 to 470 µH
- High rated current - up to 5.4 A
- RoHS compliant* and halogen free**

Applications

- DC/DC converters
- Notebook computers
- Digital video cameras
- Televisions, LCD displays

* *RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.*

** *Bourns follows the prevailing definition of "halogen free" in the industry. 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.*