



Bourns Releases Shielded Power Bead Inductors

Model SPB0705, SPB1005, SPB1007, SPB1012 and SPB1308 Series

Riverside, California – November 1, 2022 – Bourns Magnetics Product Line is introducing the Model [SPB0705](#), [SPB1005](#), [SPB1007](#), [SPB1012](#) and [SPB1308](#) Series Power Bead Inductors. These inductors feature a high rated current, low DC resistance, and shielded construction for low magnetic field radiation.

The high rated current, low DC resistance and multiple footprint features of these inductors make them well suited for applications in multi-phase regulators, power processors, memory modules, servers, storage, data centers, networking systems, and graphic cards.

Typical Characteristics:

| Series | Size | Inductance Range | Heating Current I_{rms} | Saturation Current I_{sat} | Operating Temperature |
|----------------|--------------------|------------------|---------------------------|------------------------------|-----------------------|
| SPB0705 | 6.7 x 6.5 x 4.7 mm | 72 – 150 nH | 43 A | 30 – 65 A | -40 to +125 °C |
| SPB1005 | 10.2 x 7 x 5 mm | 100 – 220 nH | 53 A | 33 – 73 A | |
| SPB1007 | 10.5 x 8 x 7.5 mm | 115 – 300 nH | 61 A | 35 – 94 A | |
| SPB1012 | 10 x 6.2 x 12 mm | 100 – 330 nH | 60 A | 28 – 92 A | |
| SPB1308 | 13.5 x 13 x 8 mm | 210 – 440 nH | 50 A | 35 – 71 A | |

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

Features

- Shielded construction
- High rated current
- Low DCR
- RoHS compliant* and halogen free**

Applications

- Voltage Regulator Modules (VRMs)
- CPU/GPU/FPGA power
- High current ASICs
- High current multi-phase regulators
- Power processors and memory modules
- Servers, storage and data centers
- Networking systems and graphic cards

* 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.