SRP2512A Series - Shielded Power Inductors

Features
- Wirewound
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low profile
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Bourns Part Number | Inductance @ 1 MHz / 1 V Q (Typ.) | SRF (MHz) Typ. | DCR (mΩ) Typ. | DCR (mΩ) Max. | Irms (A) Typ. | Isat (A) Typ.
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SRP2512A-R47M | 0.47 ±20 39 129 | 21 | 25 | 4.6 | 5.3
SRP2512A-R68M | 0.68 ±20 39 104 | 29 | 35 | 3.7 | 5.0
SRP2512A-1R0M | 1.0 ±20 39 82 | 41 | 49 | 3.5 | 4.4
SRP2512A-1R5M | 1.5 ±20 39 71 | 64 | 77 | 2.5 | 3.2
SRP2512A-2R2M | 2.2 ±20 39 62 | 85 | 98 | 2.27 | 3.0
SRP2512A-3R3M | 3.3 ±20 39 50 | 125 | 150 | 2.0 | 2.1
SRP2512A-4R7M | 4.7 ±20 39 37 | 196 | 235 | 1.55 | 1.9

Operating Temperature...-40 °C to +125 °C (Temperature rise included)
Storage Temperature (Component) ..............................................-50 °C to +125 °C
Rated Current .......................................................... Inductance drops 30% at Isat
Temperature Rise ..............40 °C at rated Irms
Moisture Sensitivity Level (MSL) ..............1
ESD Classification (HBM) .............. N/A

Materials
- Core.................................Metal alloy powder
- Wire .................................Enameled copper
- Terminal Finish ............................Sn
- Packaging........... 3000 pcs. per 7-inch reel

Recommended Layout

How to Order
Model ..... SRP2512A - R47M
Value Code (see table)

Electrical Schematic

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** 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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WARNING Cancer and Reproductive Harm  www.P65Warnings.ca.gov
L vs. I Charts

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Packaging Specifications

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