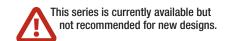


Features

- Shielded construction
- Unit height of 4.5 mm
- Inductance range: 0.36 to 3.2 µH
- Current up to 23 A
- RoHS compliant*

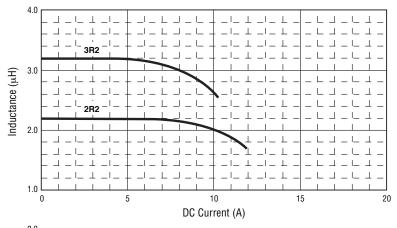


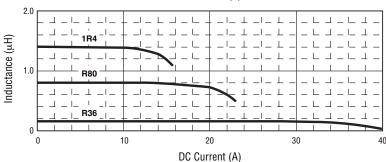
SRP1045 Series - Shielded Power Inductors

Electrical Specifications

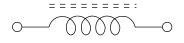
Bourns Part No.	Inductance L (μH)	l rms (A)	I sat (A)	DCR (mΩ) Max.
SRP1045-R36Y	0.36 ± 30 %	23.0	26.0	1.7
SRP1045-R80M	0.80 ± 20 %	15.0	17.0	3.9
SRP1045-1R4M	1.40 ± 20 %	13.0	14.0	4.4
SRP1045-2R2M	2.20 ± 20 %	9.5	10.0	8.7
SRP1045-3R2M	3.20 ± 20 %	8.0	8.0	10.4

Inductance vs. DC Superposition Characteristics

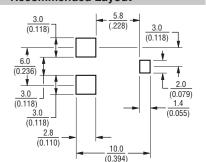




Electrical Schematic



Recommended Layout



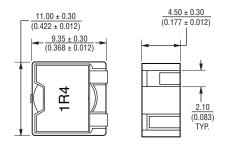
General Specifications
Test Voltage1 V
Test Frequency100 KHz
Reflow Soldering 230 °C; 50 sec. max.
Operating Temperature
55 °C to +150 °C
(Temperature rise included)
Storage Temperature
55 °C to +150 °C
Resistance to Soldering Heat
+260 °C for 10 sec.
Moisture Sensitivity Level1
ESD Classification (HBM)N/A

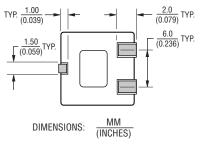
¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core......Ferrite ER
WireEnameled copper
TerminalCu/Ni/Sn
Rated CurrentInd. drops 25 % at Isat
Temperature Rise40 °C at rated Irms
Packaging600 pcs. per 13-inch reel

Product Dimensions







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

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

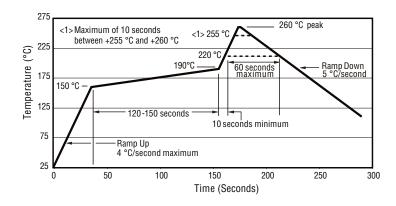
Applications

- Input/output of DC/DC converters
- Power supplies for:
 - Portable communications equipment
 - Camcorders
 - LCD TVs
 - Car audio systems

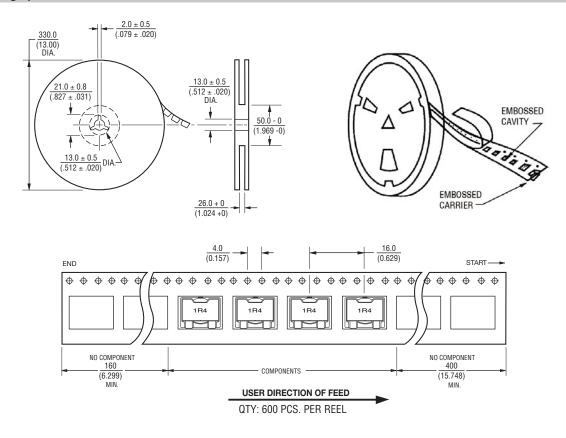
SRP1045 Series - Shielded Power Inductors

BOURNS®

Soldering Profile



Packaging Specifications



REV. 12/17

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