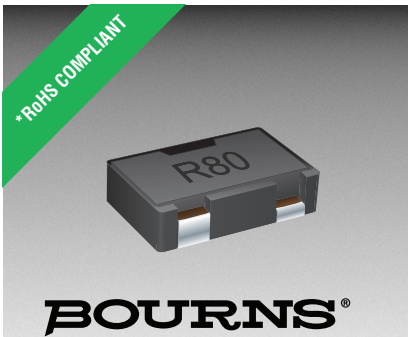




Features

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



This series is currently available but not recommended for new designs.

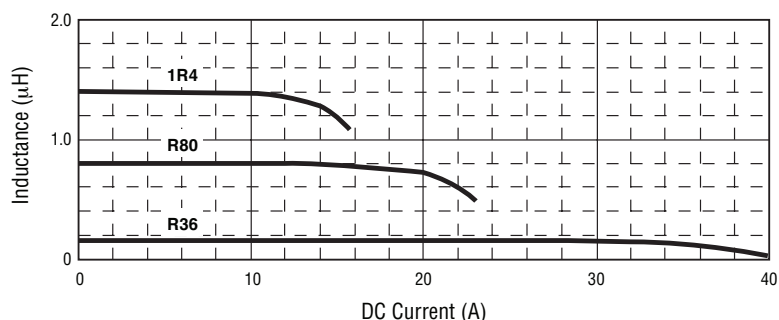
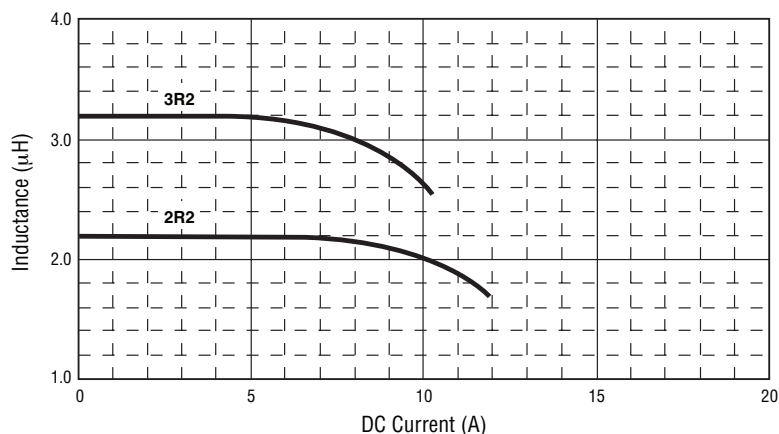
BOURNS®

SRP1045 Series - Shielded Power Inductors

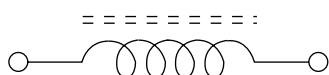
Electrical Specifications

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

Inductance vs. DC Superposition Characteristics

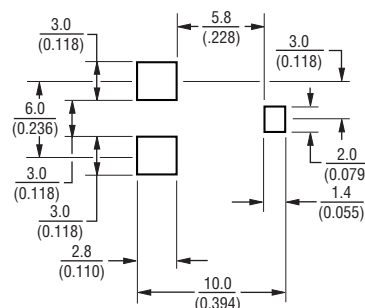


Electrical Schematic

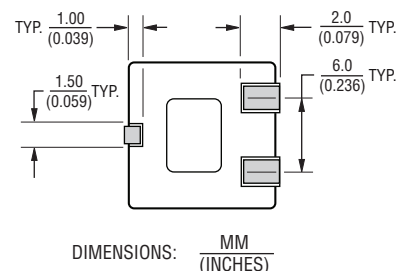
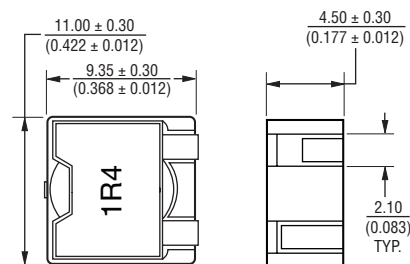


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

Recommended Layout



Product Dimensions



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

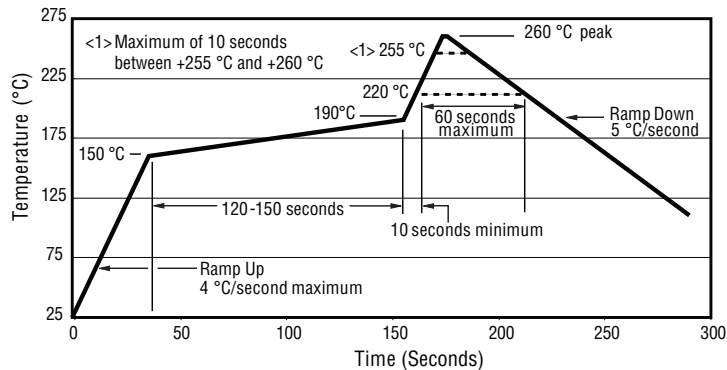
Applications

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

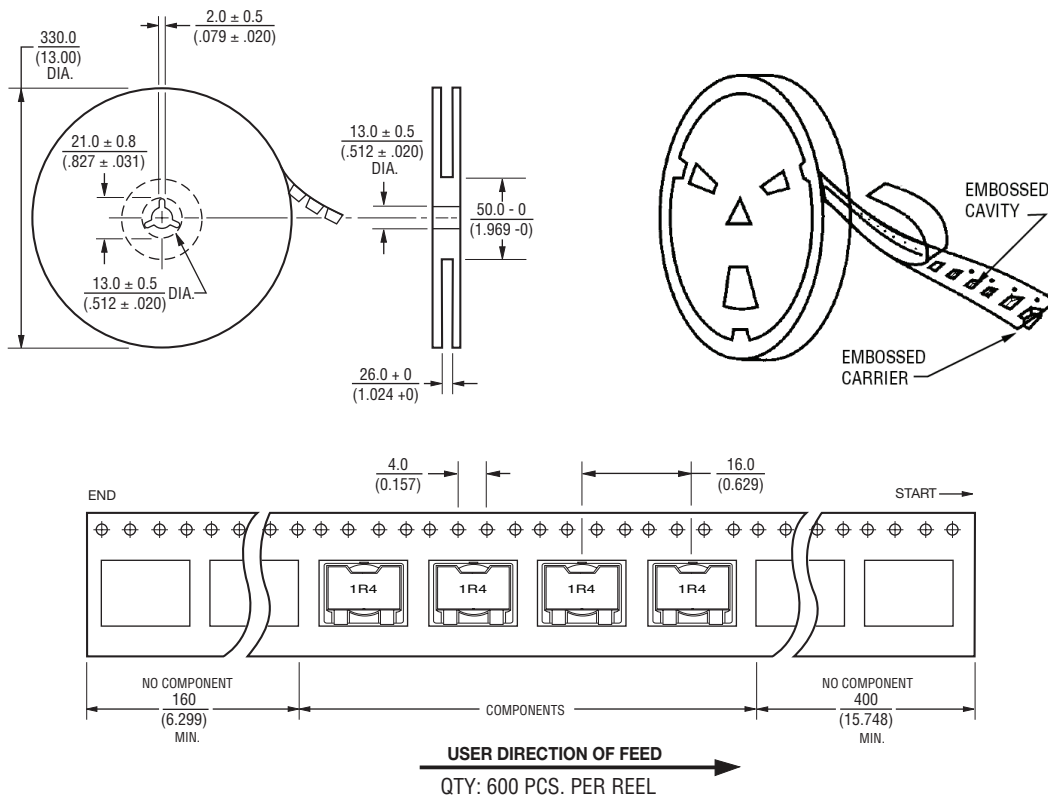
SRP1045 Series - Shielded Power Inductors

BOURNS®

Soldering Profile



Packaging Specifications



REV. 12/17

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.