




### Features

- Shielded construction
- Unit height of 8.0 mm
- Inductance range: 0.15  $\mu$ H to 0.44  $\mu$ H
- Current up to 50 A
- RoHS compliant\*

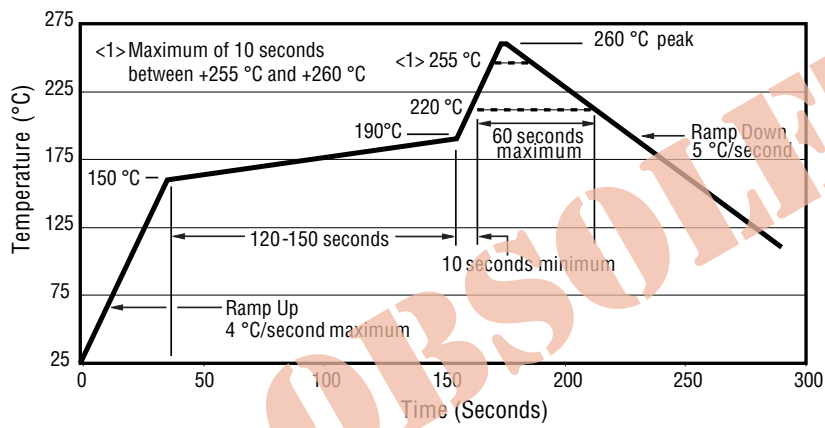
 The SRP1280 Series is obsolete and not recommended for new designs.

## SRP1280 Series - Shielded Power Inductors

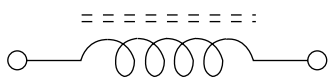
### Electrical Specifications

Bourns Part No.	Inductance L ( $\mu$ H)	Test Frequency (Hz)	I rms (A) max.	I sat (A) max.	DCR (m $\Omega$ ) max.
SRP1280-R15Y	0.15 $\pm$ 30 %	0.1 V / 500K	50	55	0.60
SRP1280-R21M	0.21 $\pm$ 20 %	0.1 V / 500K	45	50	0.60
SRP1280-R26M	0.26 $\pm$ 20 %	0.1 V / 500K	40	45	0.60
SRP1280-R32M	0.32 $\pm$ 20 %	0.1 V / 500K	40	41	0.60
SRP1280-R44M	0.44 $\pm$ 20 %	0.1 V / 500K	28	30	0.60

### Soldering Profile



### Electrical Schematic



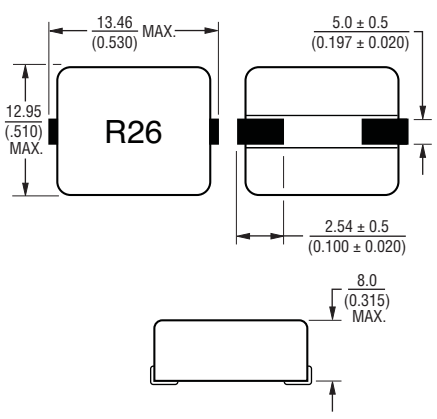
### General Specifications

Test Voltage.....0.1 V  
 Test Frequency .....500 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.

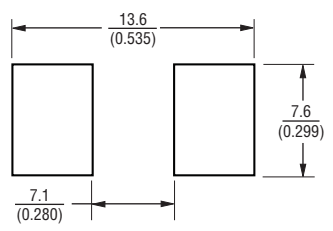
### Materials

Core .....Ferrite  
 Wire .....Enameled copper  
 Terminal .....Cu/Sn  
 Rated Current.....Ind. drops 20 % at I sat  
 Temperature Rise.....40 °C at rated I rms  
 Packaging .....400 pcs. per 13-inch reel

### Product Dimensions



### Recommended Layout



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

\*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.  
 Specifications are subject to change without notice.  
 Customers should verify actual device performance in their specific applications.

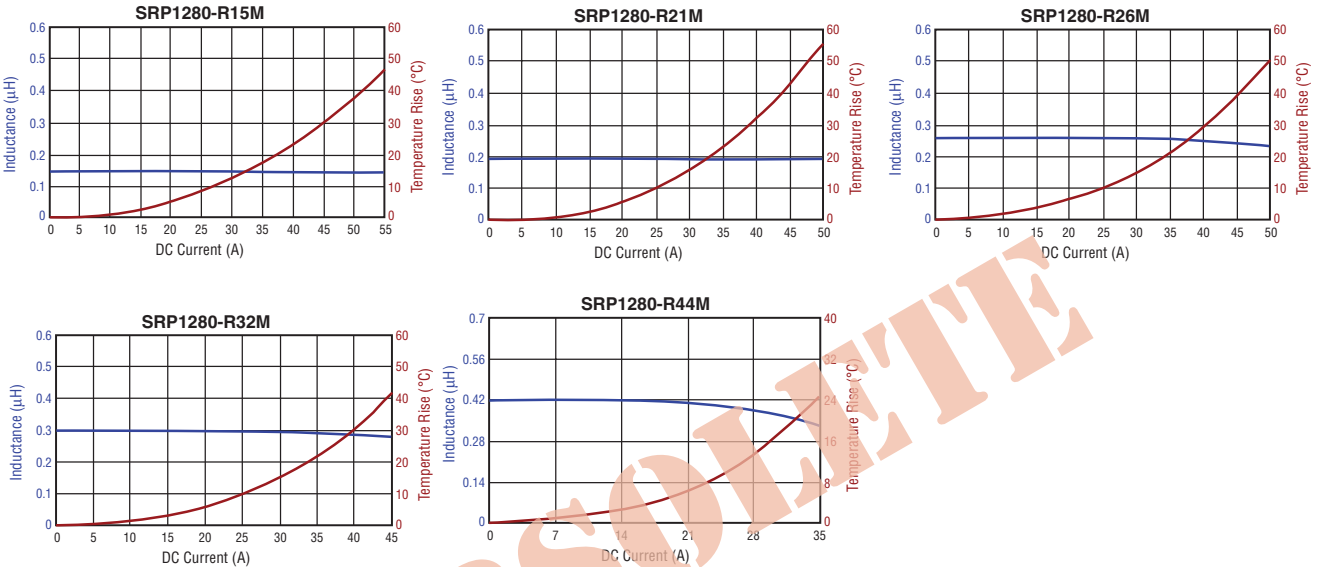
## Applications

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

# SRP1280 Series - Shielded Power Inductors

**BOURNS®**

### L vs. I Charts



### Packaging Specifications

