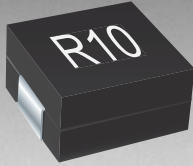


\*RoHS COMPLIANT



**BOURNS®**

### Features

- Shielded construction
- Unit height of 5.0 mm
- Inductance range: 0.1  $\mu$ H to 0.2  $\mu$ H
- Current up to 30 A
- RoHS compliant\*



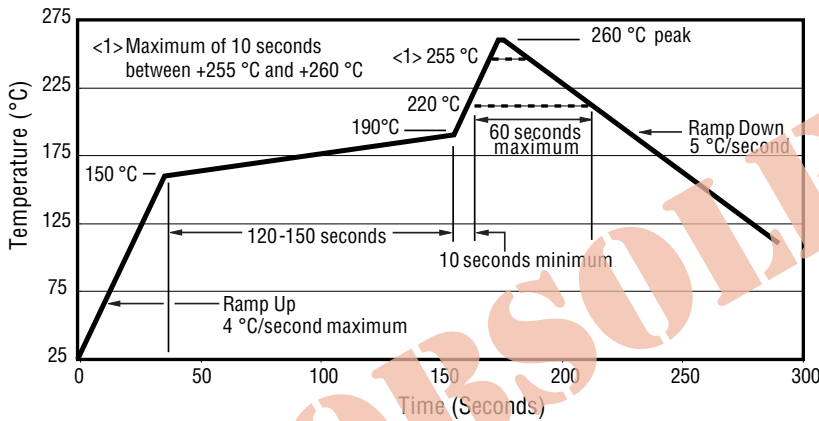
The SRP7050 Series is obsolete and not recommended for new designs.

## SRP7050 Series - Shielded Power Inductors

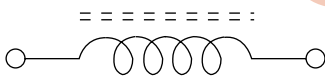
### Electrical Specifications

Bourns Part No.	Inductance L ( $\mu$ H)	Test Frequency (Hz)	I rms (A) max.	I sat (A) max.	DCR (m $\Omega$ ) max.
SRP7050-R10Y	0.10 $\pm$ 30 %	0.25 V / 1M	30	37	0.50
SRP7050-R15Y	0.15 $\pm$ 30 %	0.25 V / 1M	24	30	0.50
SRP7050-R20Y	0.20 $\pm$ 30 %	0.25 V / 1M	19	24	0.50

### Soldering Profile



### Electrical Schematic



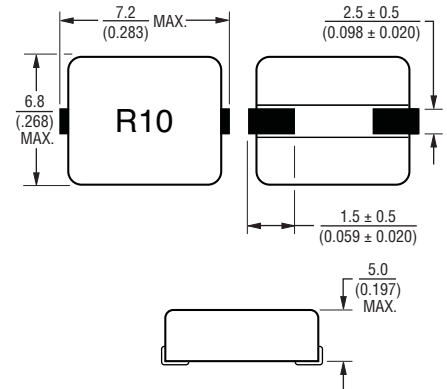
### General Specifications

Test Voltage.....0.25 V  
 Test Frequency.....1 MHz  
 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.

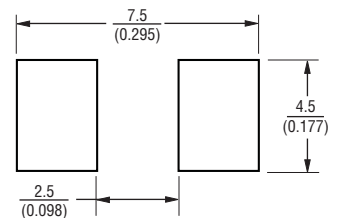
### Materials

Core.....Iron  
 Wire.....Enameled copper  
 Terminal.....Cu/Sn  
 Rated Current.....Ind. drops 20 % at I sat  
 Temperature Rise.....40 °C at rated I rms  
 Packaging.....900 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.

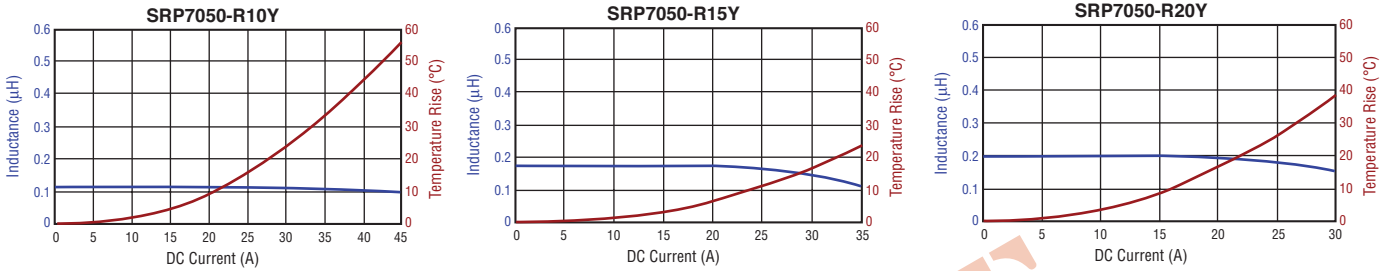
## Applications

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

# SRP7050 Series - Shielded Power Inductors

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### L vs. I Charts



### Packaging Specifications

