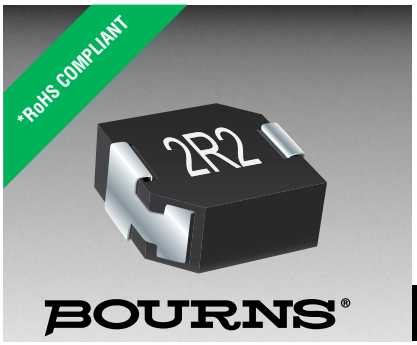


Features

- Shielded construction
- Unit height of 3.2 mm
- Inductance range: 0.1 to 10 μH
- Current up to 32.5 A
- RoHS compliant*

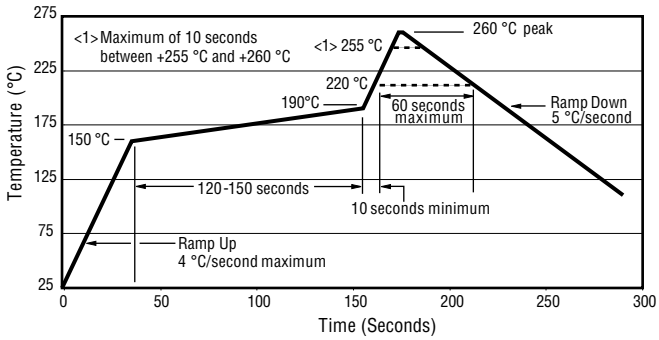
This series is currently available, but not recommended for new designs. The newer SRP7028A series is recommended.

SRP7030 Series - Shielded Power Inductors

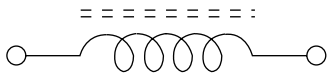
Electrical Specifications

Bourns Part No.	Inductance L (μH) ±20 %	I rms (A)	I sat (A)	DCR (mΩ) Max.
SRP7030-R10M	0.10	32.5	42	1.7
SRP7030-R15M	0.15	26.0	38	2.5
SRP7030-R20M	0.20	24.0	36	3.0
SRP7030-R22M	0.22	23.0	36	2.8
SRP7030-R33M	0.33	20.0	30	3.9
SRP7030-R47M	0.47	17.5	26	4.2
SRP7030-R68M	0.68	15.5	23	5.5
SRP7030-R72M	0.72	15.5	23	5.5
SRP7030-R82M	0.82	13.0	20	8.0
SRP7030-1R0M	1.0	11.0	15	10.0
SRP7030-1R5M	1.5	9.0	14	15.0
SRP7030-1R8M	1.8	8.5	13	17.0
SRP7030-2R2M	2.2	8.0	12	20.0
SRP7030-3R3M	3.3	6.0	10	30.0
SRP7030-4R7M	4.7	5.5	6.5	40.0
SRP7030-6R8M	6.8	4.5	6.0	60.0
SRP7030-8R2M	8.2	4.0	5.5	68.0
SRP7030-100M	10.0	3.0	4.5	85.0

Soldering Profile



Electrical Schematic



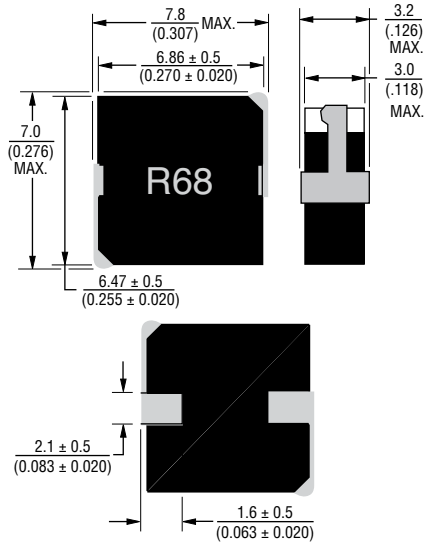
General Specifications

Test Voltage .....0.25 V
Test Frequency ..... 100 KHz
Reflow Soldering .. 230 °C; 50 sec. max.
Operating Temperature
..... -40 °C to +125 °C
(Temperature rise included)
Storage Temperature (On Board)
..... -40 °C to +125 °C
Resistance to Soldering Heat
.....+260 °C for 10 sec.
Moisture Sensitivity Level.....1
ESD Classification (HBM).....N/A

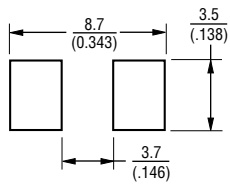
Materials

Core.....Iron
Wire ..... Enameled copper
Terminal .....Cu/Sn
Rated Current.... Ind. drops 20 % at Isat
Temperature Rise .... 40 °C at rated Irms
Packaging.....1000 pcs. per 13-inch reel

Product Dimensions



Recommended Layout



DIMENSIONS: MM / (INCHES)

*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.

Applications

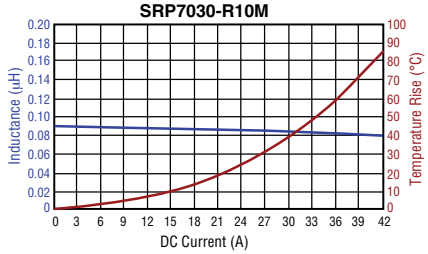
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communications equipment
  - Camcorders
  - LCD TVs
  - Car audio systems

SRP7030 Series - Shielded Power Inductors

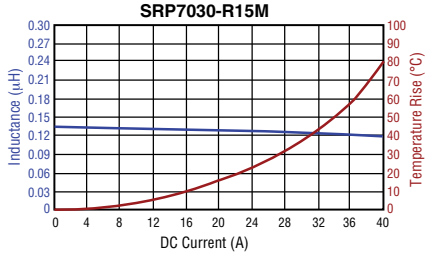
BOURNS®

L vs. I Charts

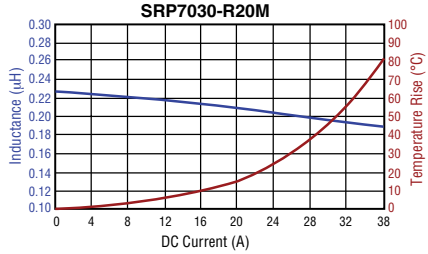
SRP7030-R10M



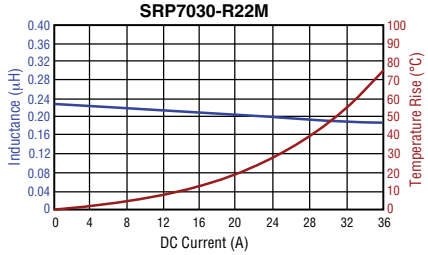
SRP7030-R15M



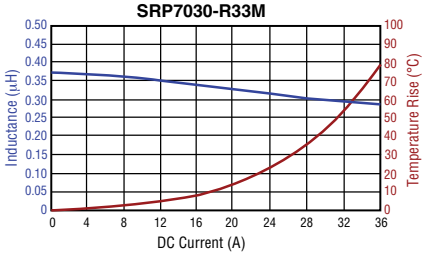
SRP7030-R20M



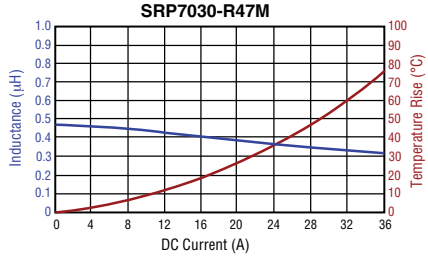
SRP7030-R22M



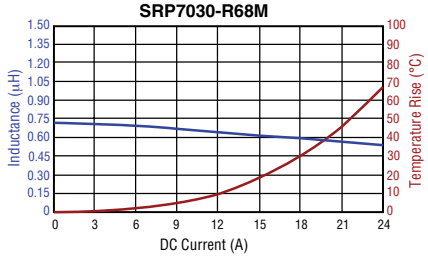
SRP7030-R33M



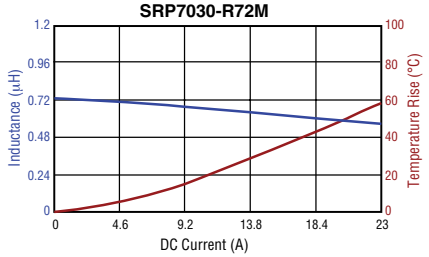
SRP7030-R47M



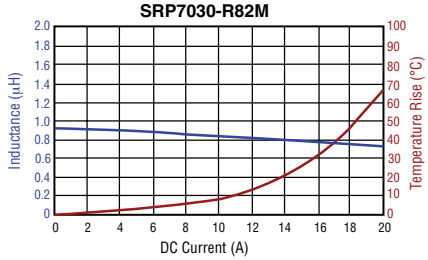
SRP7030-R68M



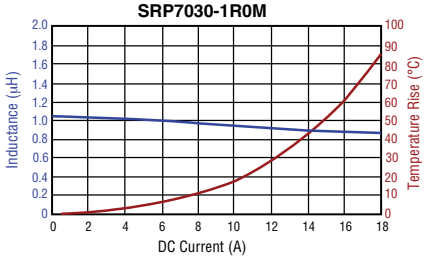
SRP7030-R72M



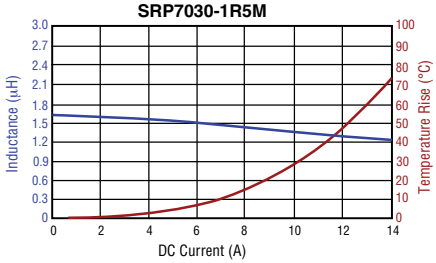
SRP7030-R82M



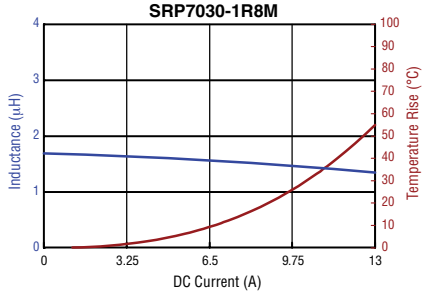
SRP7030-1R0M



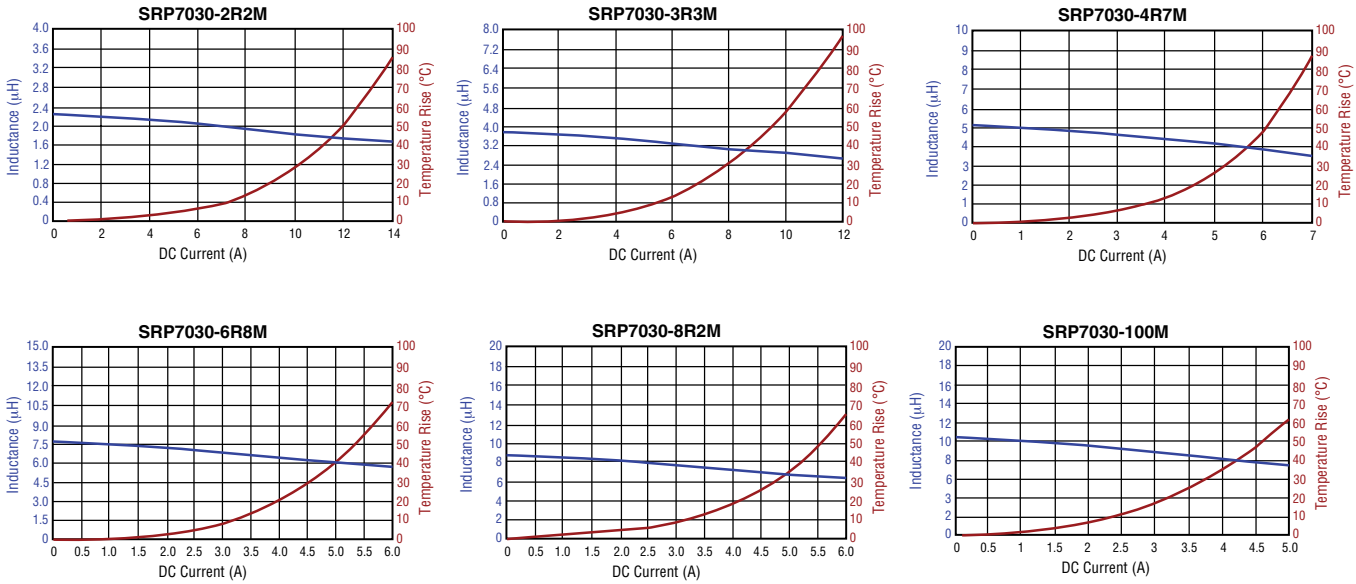
SRP7030-1R5M



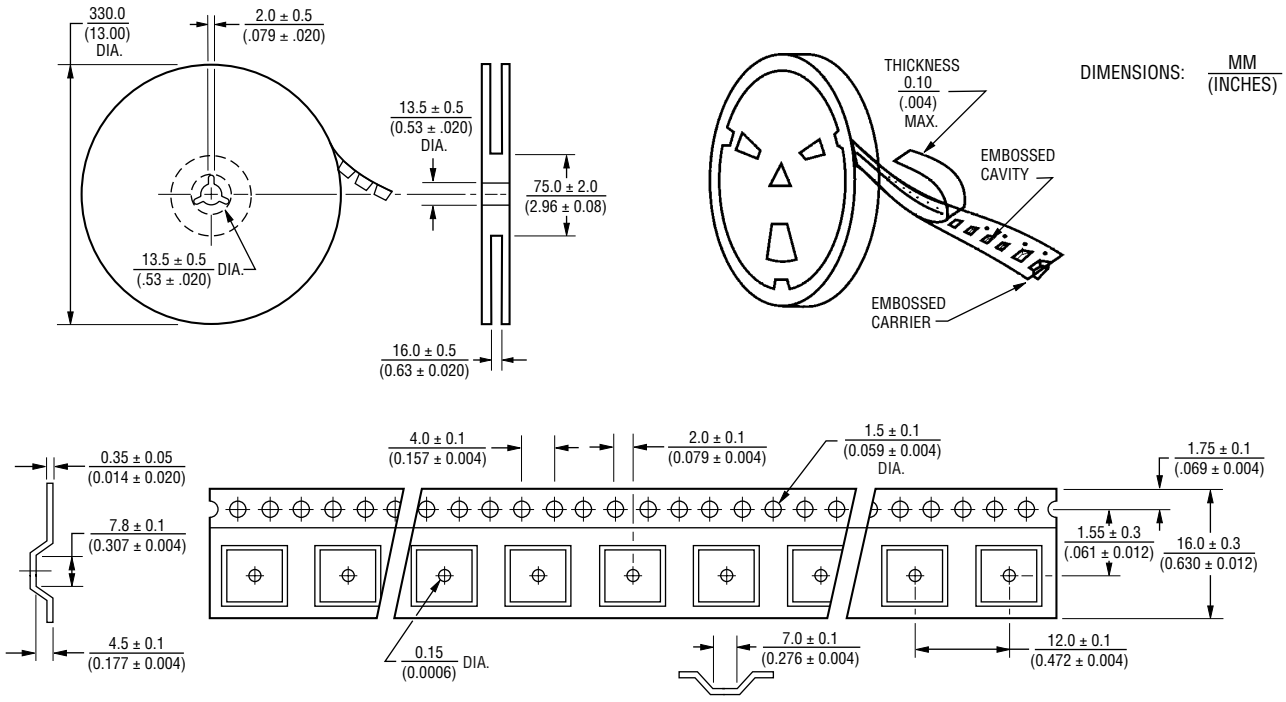
SRP7030-1R8M



L vs. I Charts



Packaging Specifications



REV. 08S/17