

*RoHS COMPLIANT



BOURNS®

Features

- Shielded construction
- Flat wire
- Unit height of 2 mm
- Inductance range: 0.22 to 5.6 μ H
- Rated current up to 10 A
- RoHS compliant*



This series is currently available but not recommended for new designs. The newer **Model SRP4020TA** series is recommended.

SRP4020 Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance L (μ H) \pm 20 %	I rms (A)	I sat (A)	DCR (m Ω) Max.
SRP4020-R22M	0.22	11.5	11.5	7
SRP4020-R36M	0.36	9	11	12
SRP4020-R47M	0.47	7	10	12
SRP4020-R56M	0.56	7	8	14.7
SRP4020-R68M	0.68	6.3	7	17
SRP4020-R88M	0.88	6	6.5	18
SRP4020-1R0M	1.0	5	6	21.6
SRP4020-1R2M	1.2	5	5	22
SRP4020-1R5M	1.5	5.1	5	29
SRP4020-2R2M	2.2	3.9	5	40
SRP4020-3R3M	3.3	3.3	4.3	48
SRP4020-4R7M	4.7	2.7	4	75
SRP4020-5R6M	5.6	2.4	3.5	90

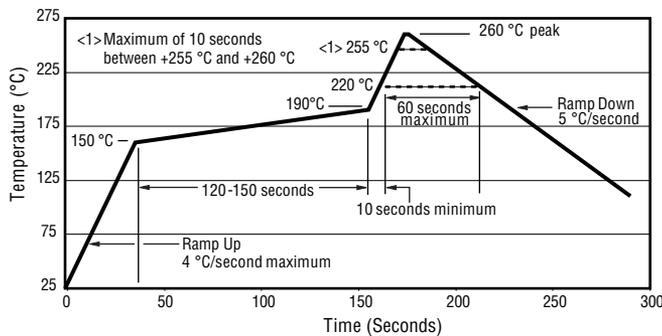
General Specifications

Test Voltage0.25 V
 Test Frequency 100 KHz
 Reflow Soldering .. 230 °C; 50 sec. max.
 Operating Temperature
-55 °C to +125 °C
 (Temperature rise included)
 Storage Temperature
-55 °C to +125 °C
 Resistance to Soldering Heat
 +260 °C for 10 sec.

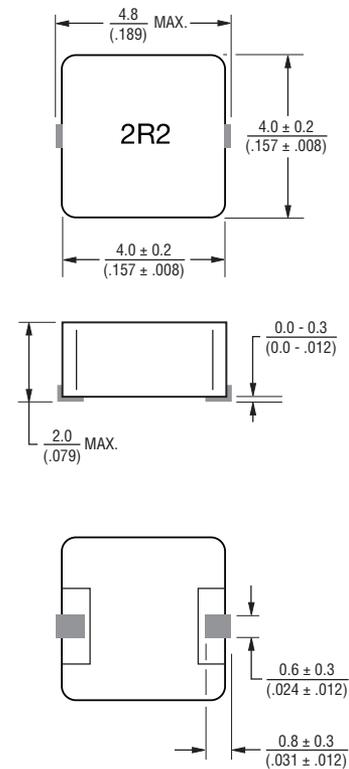
Materials

CoreIron
 WireEnameled copper
 Terminal Cu/Sn
 Rated Current Ind. drops 20 % at Isat
 Temperature Rise40 °C at rated Irms
 Packaging 2000 pcs. per 13-inch reel

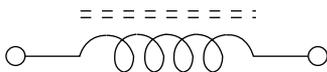
Soldering Profile



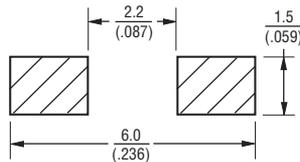
Product Dimensions



Electrical Schematic



Recommended Layout



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

*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.

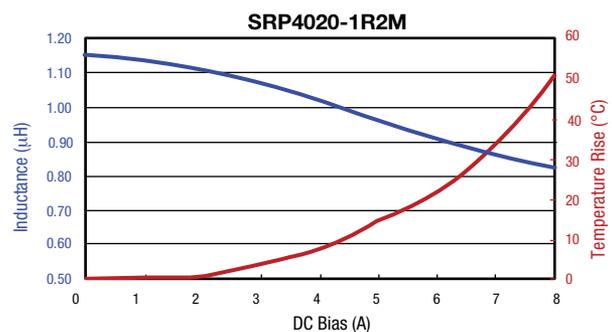
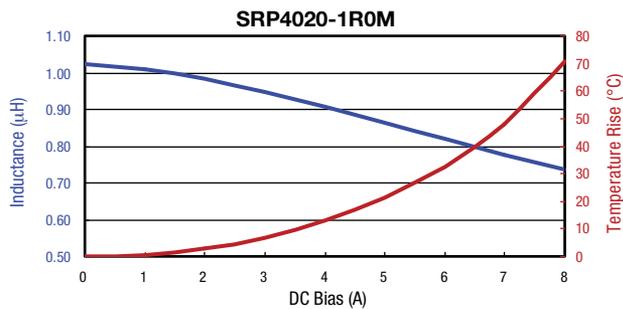
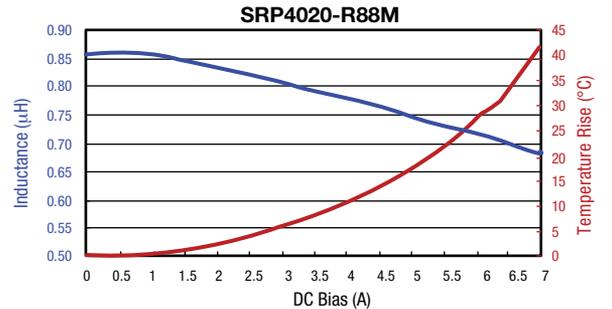
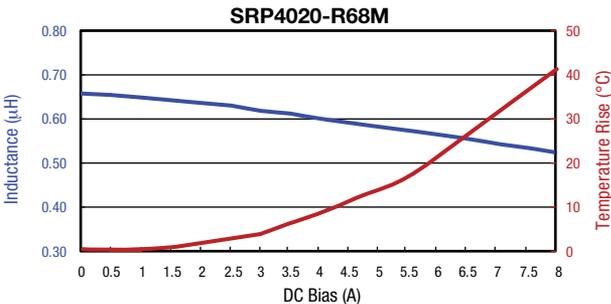
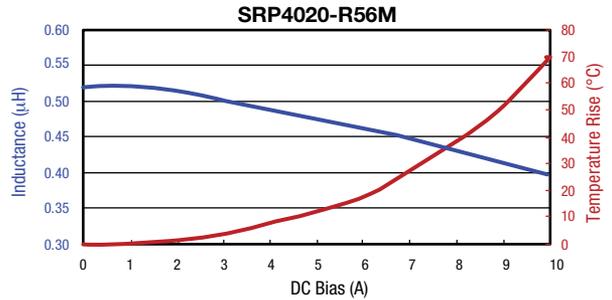
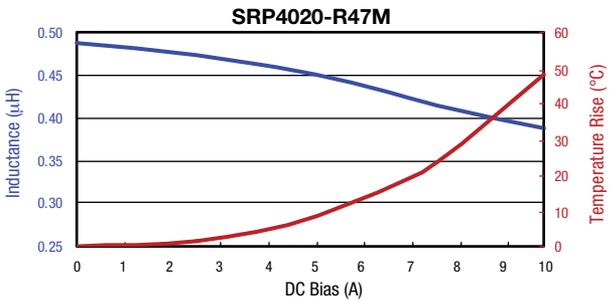
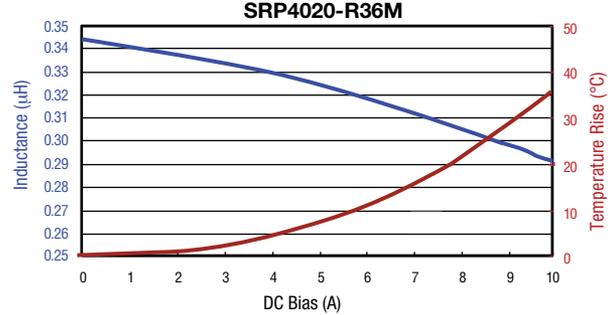
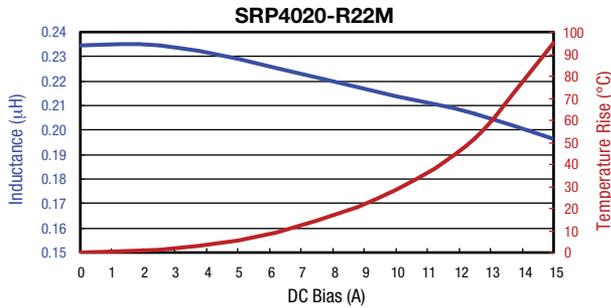
Applications

- DC/DC converters
- Power supplies for:
 - Portable communications equipment
 - Laptop computers
 - Camcorders, HDTV, car audio systems
 - Video game consoles

SRP4020 Series - Shielded Power Inductors

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L vs. I Charts

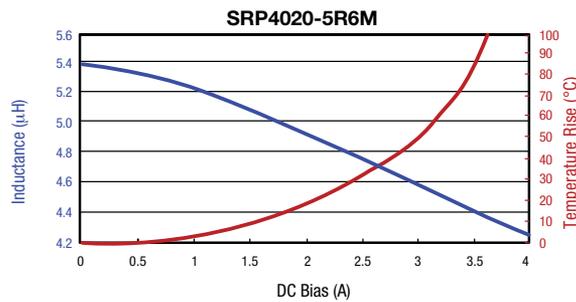
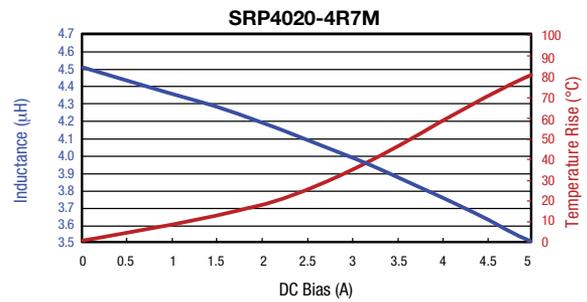
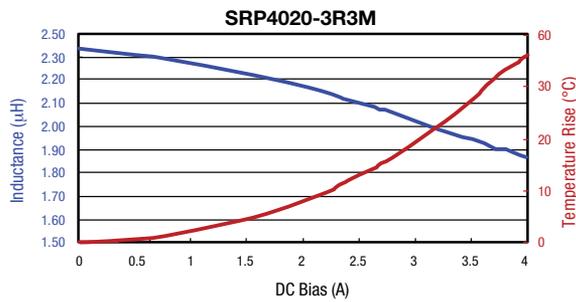
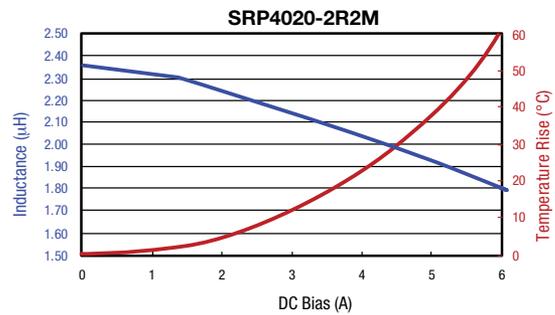
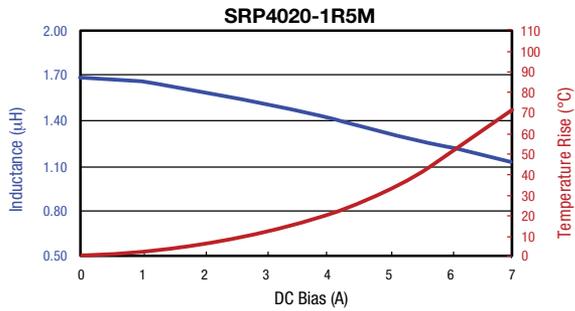


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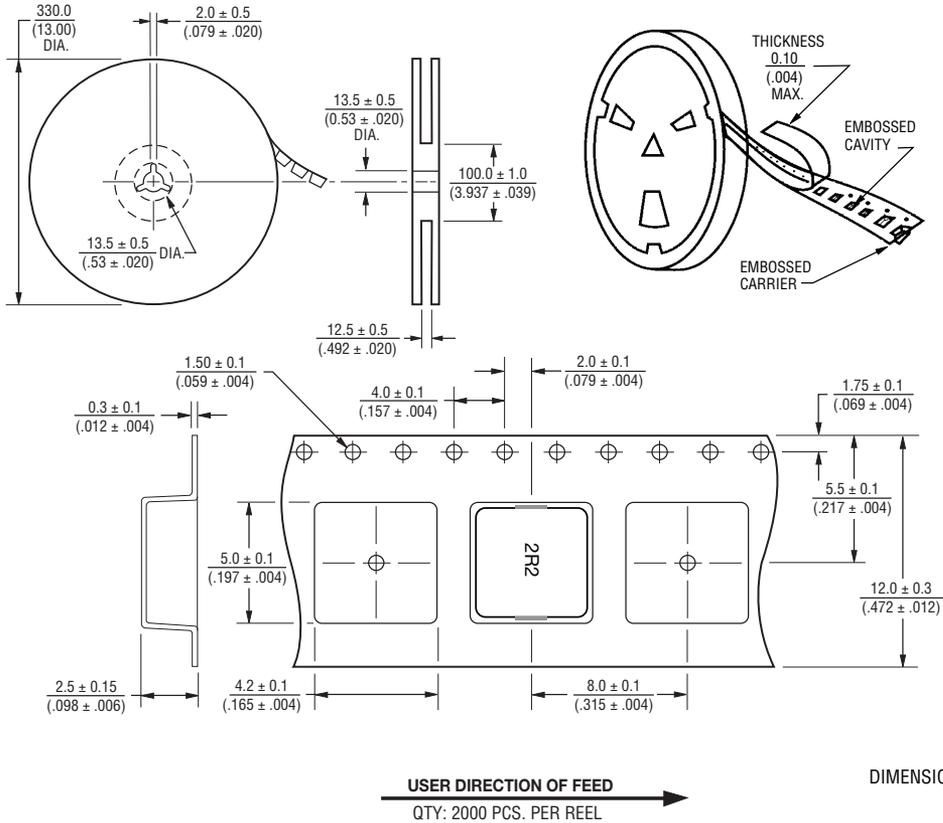


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Packaging Specifications



REV. 03/15

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

[SRP4020-1R0M](#) [SRP4020-1R2M](#) [SRP4020-1R5M](#) [SRP4020-2R2M](#) [SRP4020-R22M](#) [SRP4020-R36M](#) [SRP4020-R47M](#) [SRP4020-R56M](#) [SRP4020-R68M](#) [SRP4020-R88M](#)