



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.

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SRP4020 Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance L (μ H) ± 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

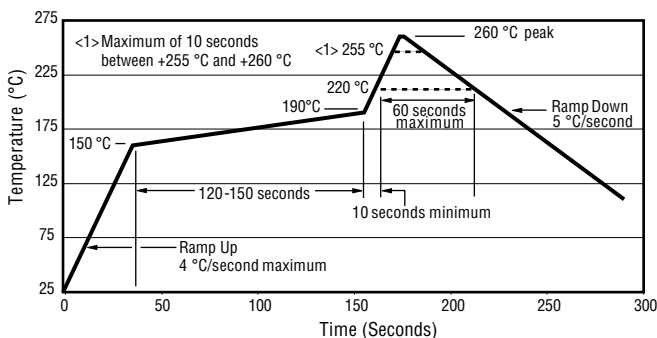
General Specifications

Test Voltage 0.25 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.

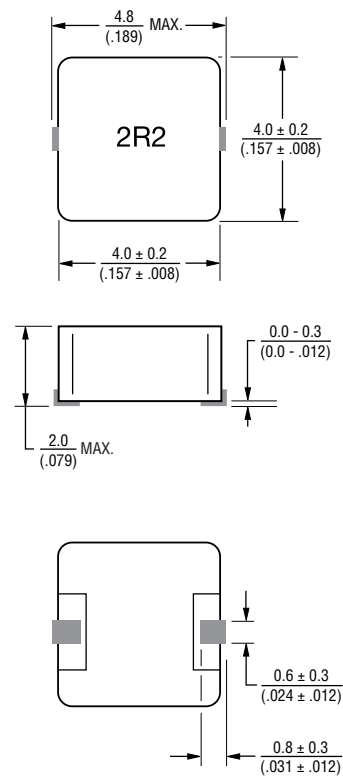
Materials

Core Iron
 Wire Enamelled copper
 Terminal Cu/Sn
 Rated Current Ind. drops 20 % at I_{sat}
 Temperature Rise 40 °C at rated I_{rms}
 Packaging 2000 pcs. per 13-inch reel

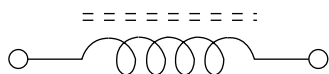
Soldering Profile



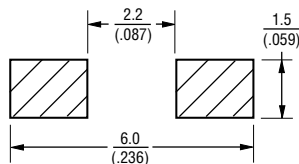
Product Dimensions



Electrical Schematic



Recommended Layout



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* 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. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

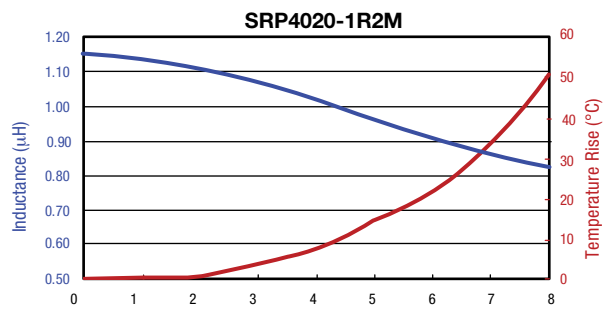
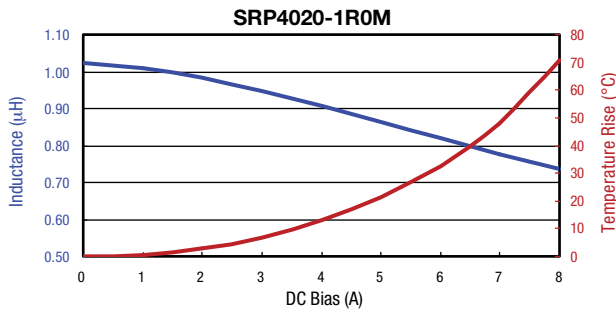
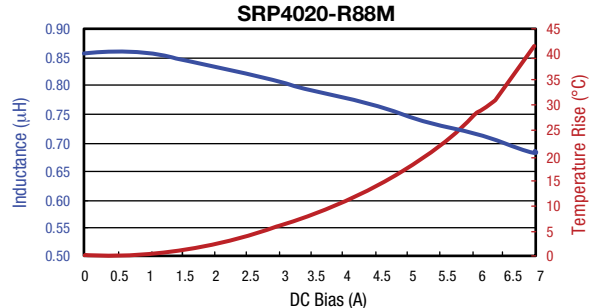
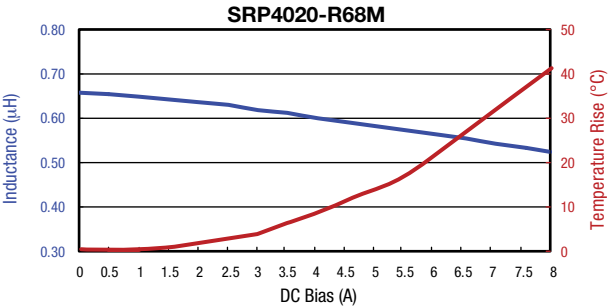
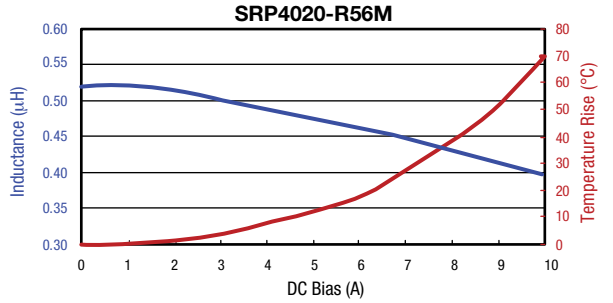
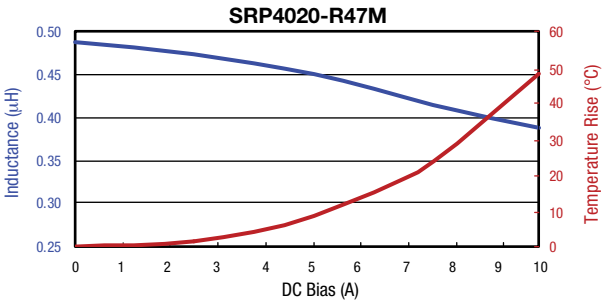
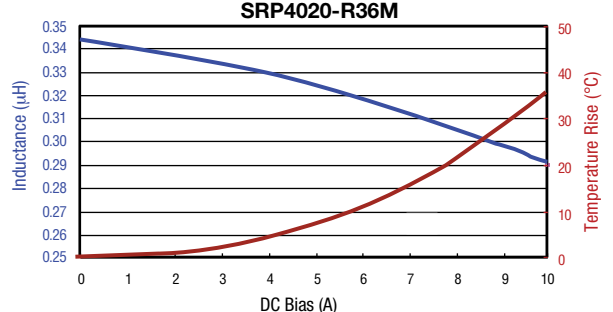
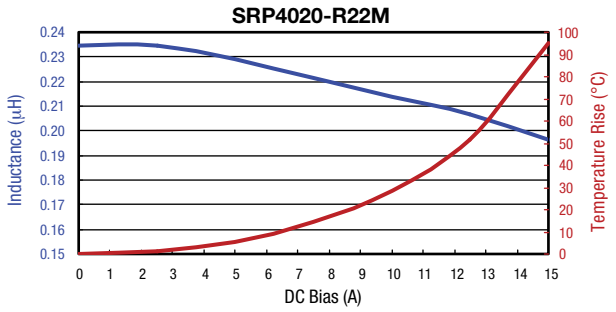
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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 BOURNS®

L vs. I Charts

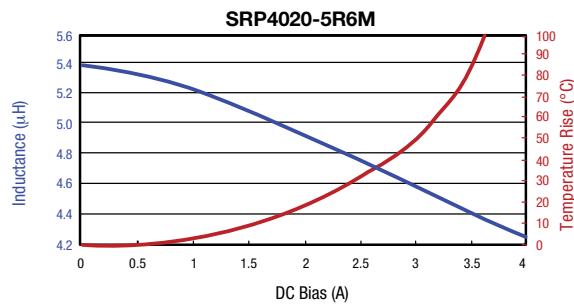
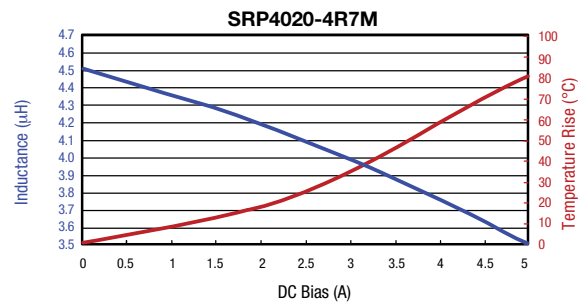
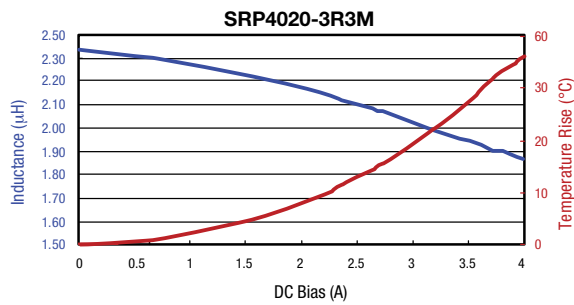
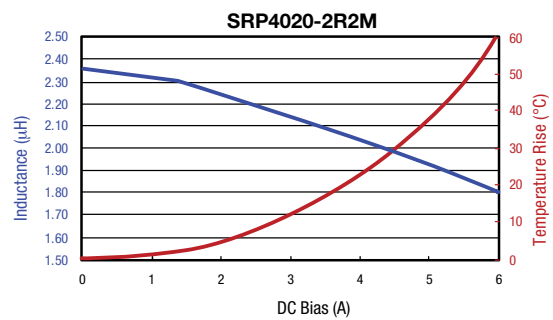
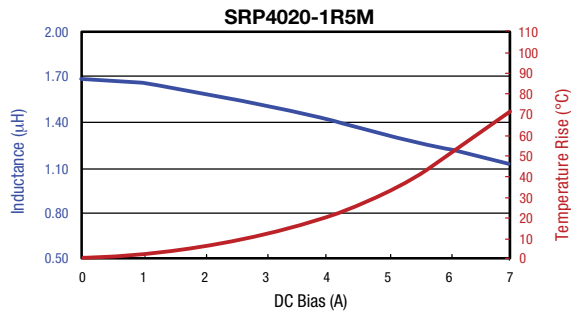


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L vs. I Charts



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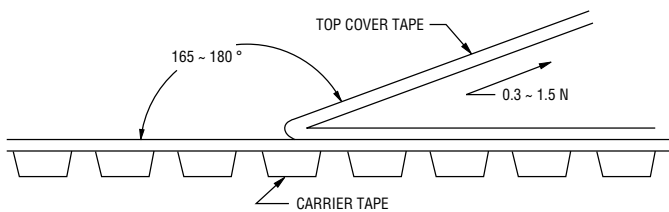
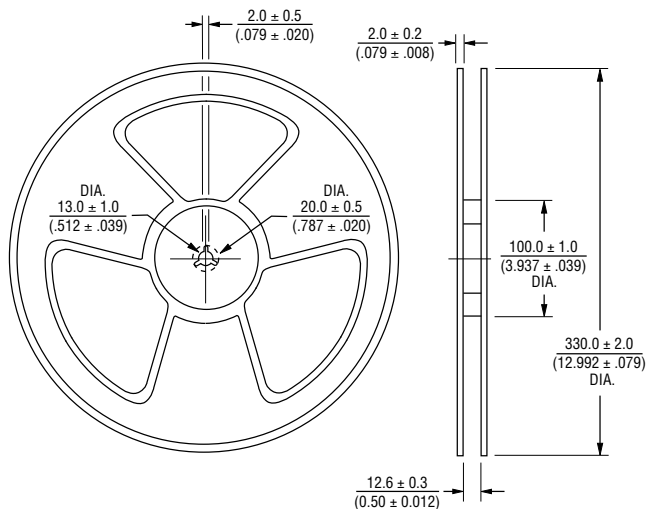
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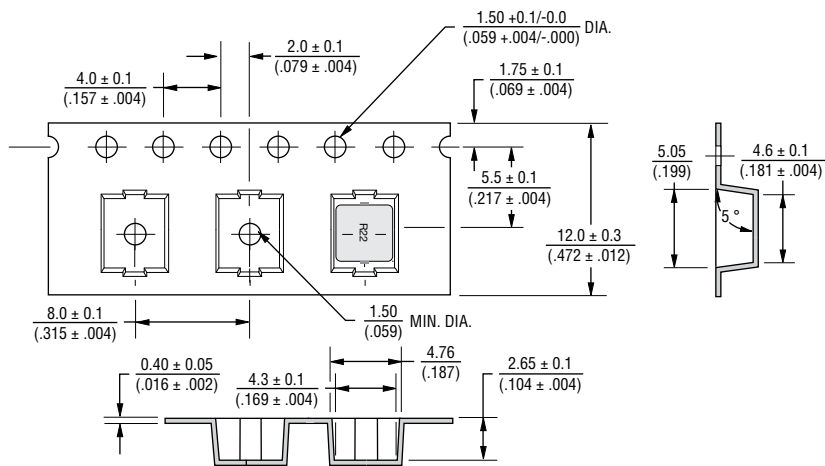
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Packaging Specifications



PEEL SPEED: APPROX. 300 MM / MINUTE
 PEEL FORCE: 0.3 TO 1.5 N

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



USER DIRECTION OF FEED →

QTY: 2000 PCS. PER REEL

REV. 01/17

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