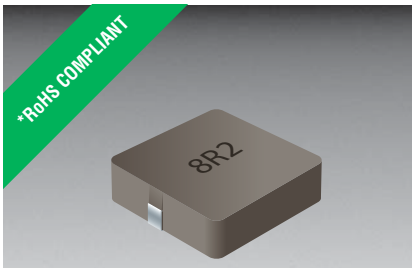


BOURNS®

Features

- Shielded construction
- Flat wire
- Unit height as low as 3.0 mm
- Inductance range: 0.1 to 10 μH
- Rated current up to 32 A
- RoHS compliant*

Applications

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

SRP7030F Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance L (μH) ±20 %	I rms (A)	I sat (A)	DCR (mΩ) Max.
SRP7030-R10FM	0.10	32	60	1.7
SRP7030-R15FM	0.15	28	37	1.99
SRP7030-R20FM	0.20	23	34	2.4
SRP7030-R22FM	0.22	23	34	2.4
SRP7030-R33FM	0.33	18	25	3.4
SRP7030-R47FM	0.47	17	19	4.5
SRP7030-R56FM	0.56	15	17	5
SRP7030-R68FM	0.68	15	17	5
SRP7030-R82FM	0.82	12	14	6.6
SRP7030-1R0FM	1.0	11	13	7
SRP7030-1R1FM	1.1	11	13	7
SRP7030-1R5FM	1.5	10	12	10
SRP7030-2R2FM	2.2	7	11	20
SRP7030-3R3FM	3.3	7	10	24
SRP7030-4R7FM	4.7	5	7	35
SRP7030-5R6FM	5.6	5	6	45
SRP7030-6R8FM	6.8	4.5	5.5	50
SRP7030-8R2FM	8.2	4.5	5	54
SRP7030-100FM	10	3.5	5	60

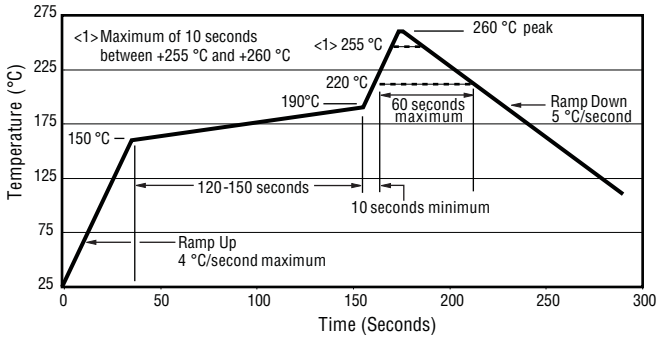
General Specifications

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.

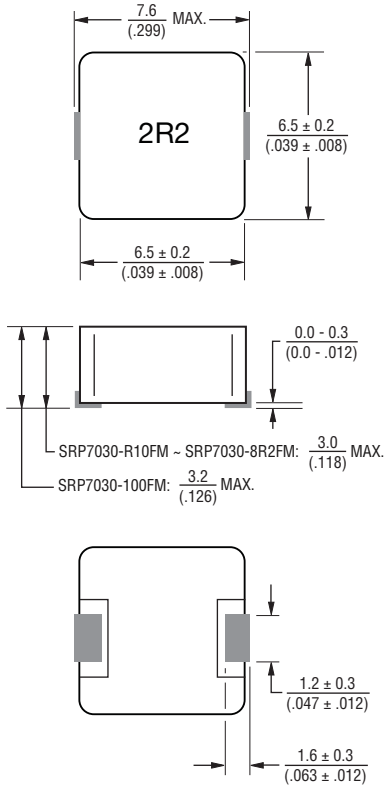
Materials

Core.....Iron
Wire ..... 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

Soldering Profile

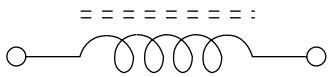


Product Dimensions

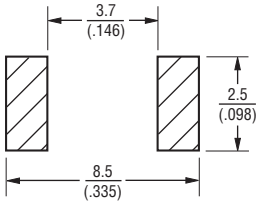


DIMENSIONS: MM (INCHES)

Electrical Schematic



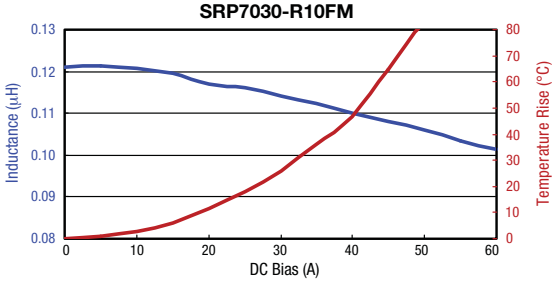
Recommended Layout



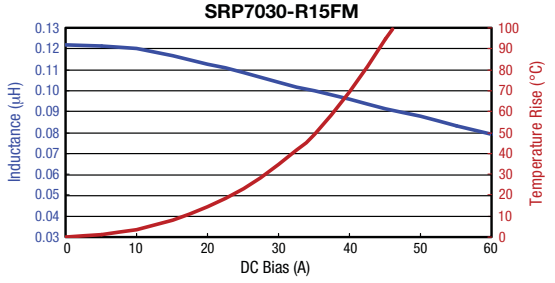
*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

L vs. I Charts

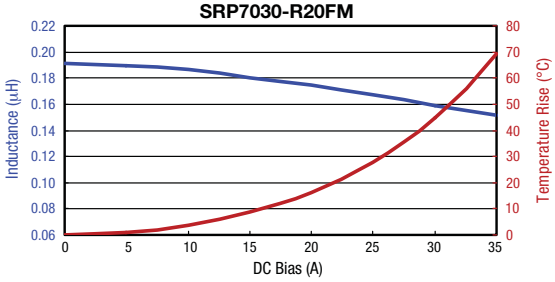
SRP7030-R10FM



SRP7030-R15FM



SRP7030-R20FM



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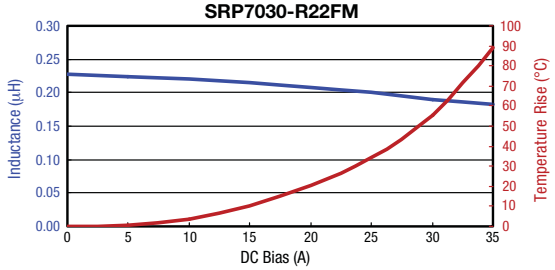
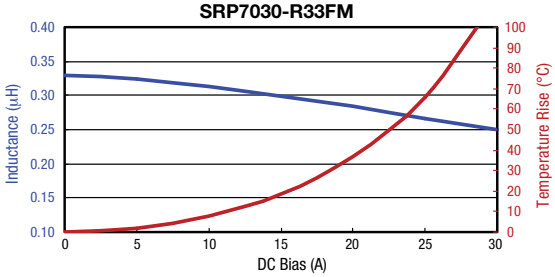


SRP7030-R33FM



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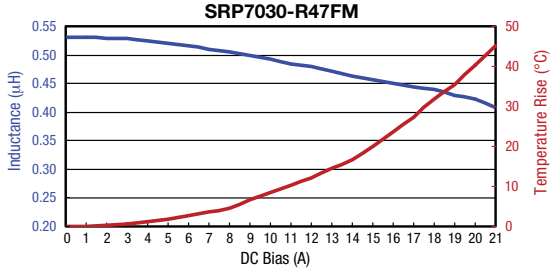

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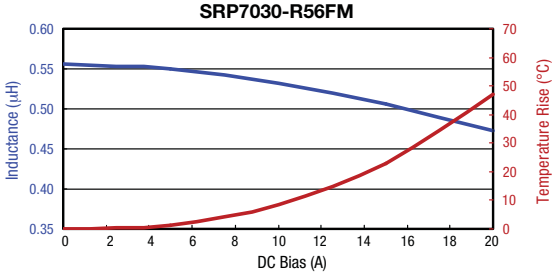

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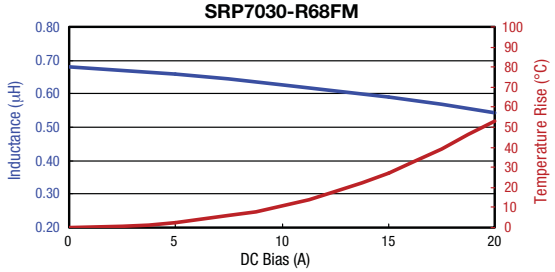

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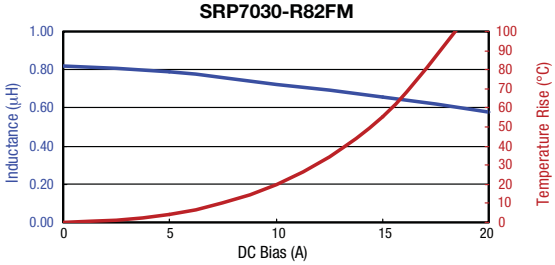
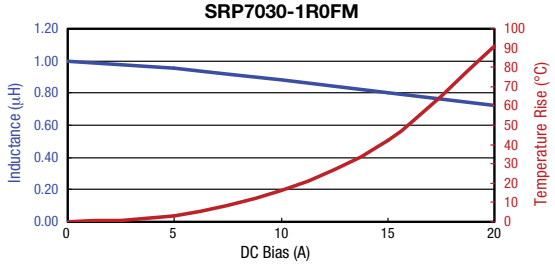


SRP7030-1R0FM



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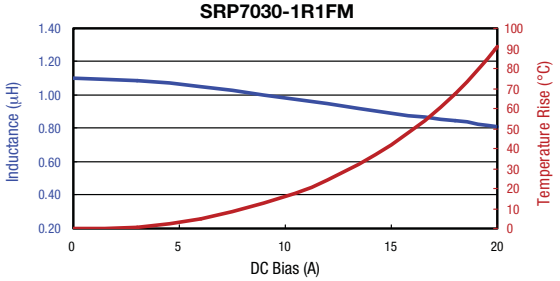
L vs. I Charts

SRP7030-1R1FM



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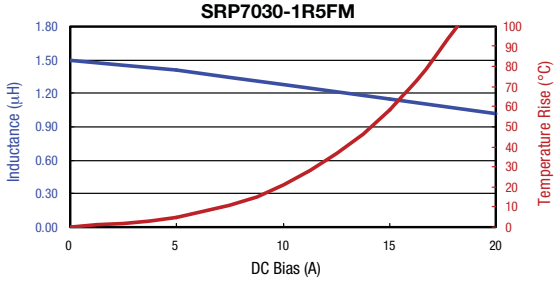

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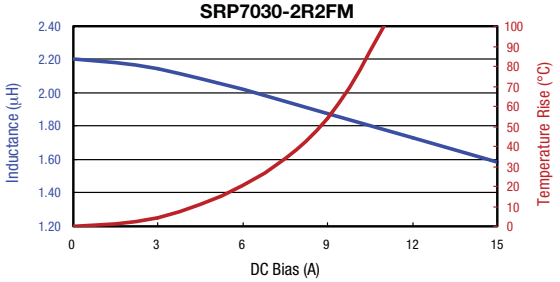

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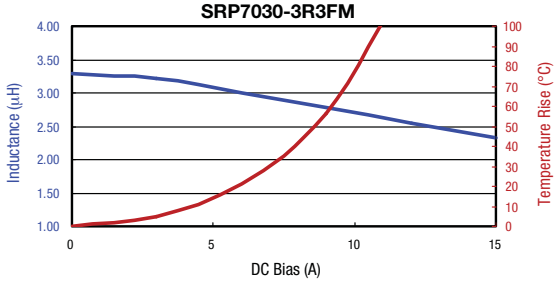

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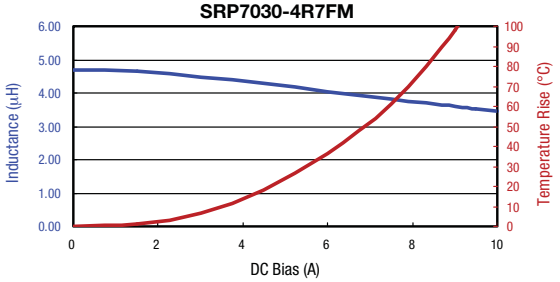

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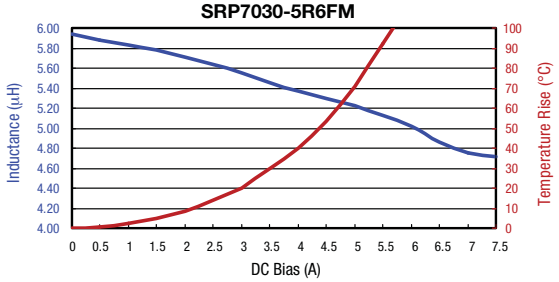

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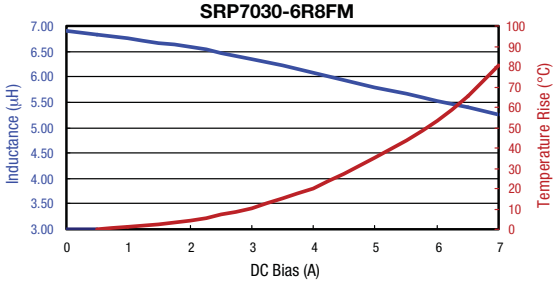

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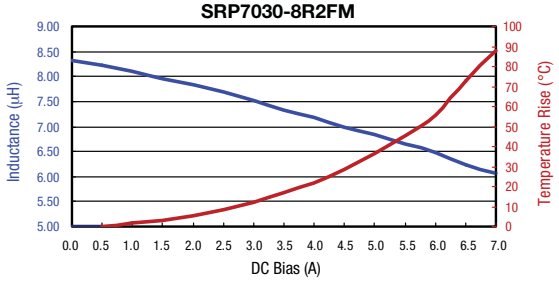
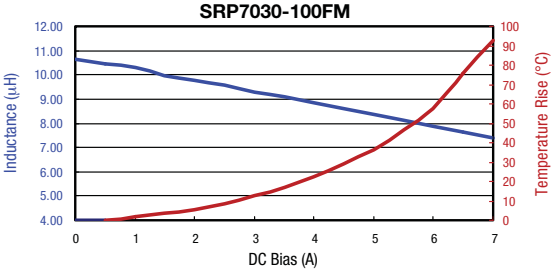


SRP7030-100FM



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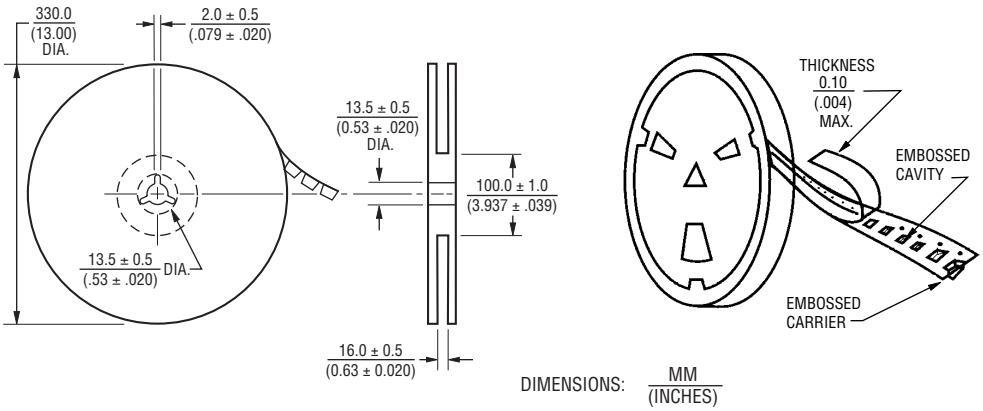
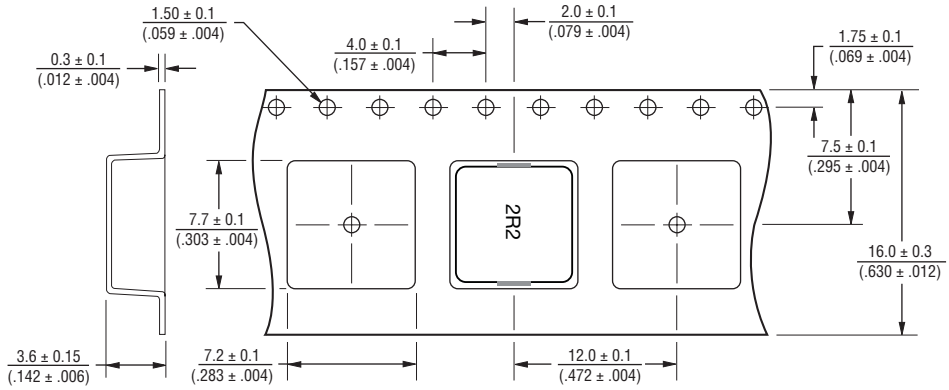
Packaging Specifications





USER DIRECTION OF FEED

QTY: 1000 PCS. PER REEL

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116
Europe: Tel: +41-41 768 5555 • Fax: +41-41 768 5510
The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700
www.bourns.com

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