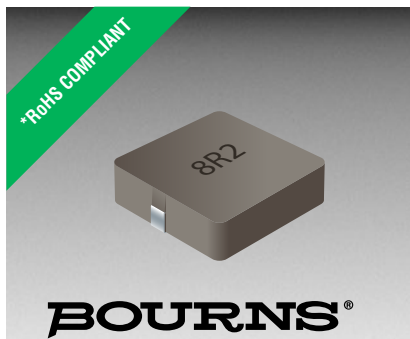




Features

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



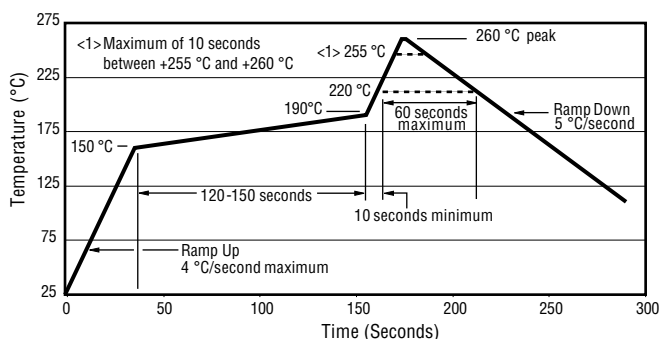
This series is currently available but not recommended for new designs. The newer **SRP7028A** series is recommended.

SRP7030F Series - Shielded Power Inductors

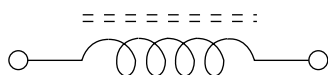
Electrical Specifications

Bourns Part No.	Inductance L (μ H) ± 20 %	I rms (A)	I sat (A)	DCR (m Ω) 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

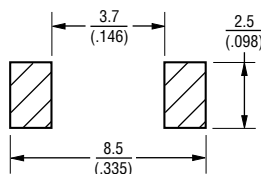
Soldering Profile



Electrical Schematic



Recommended Layout



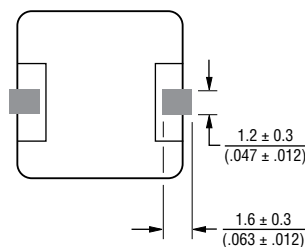
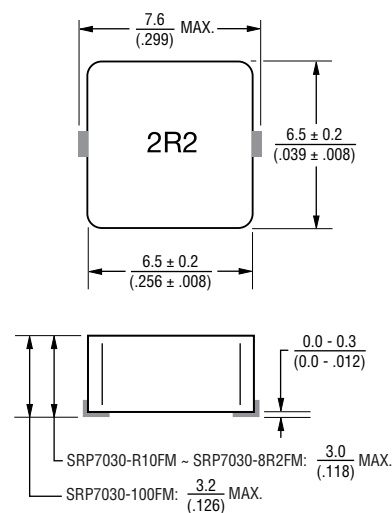
General Specifications

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

Product Dimensions



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.
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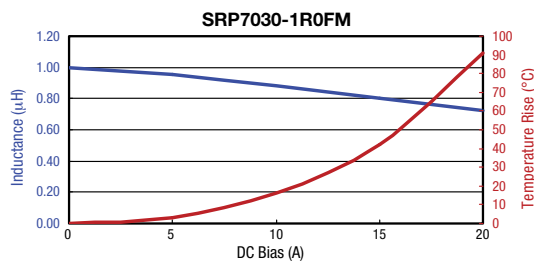
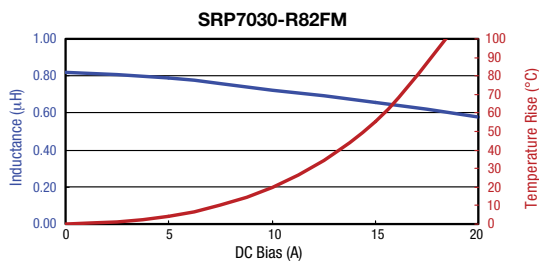
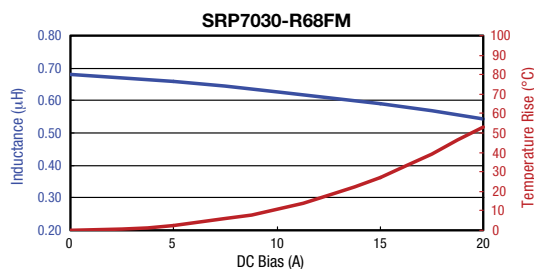
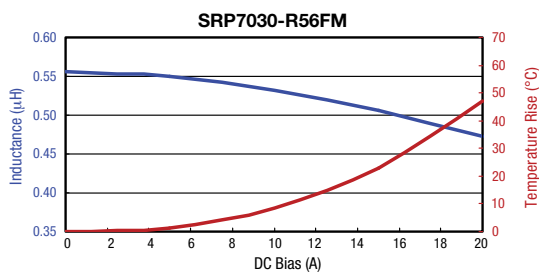
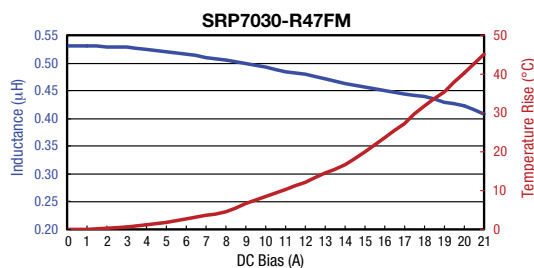
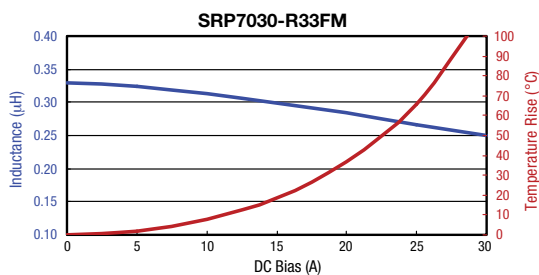
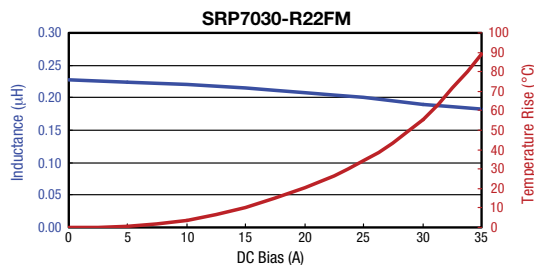
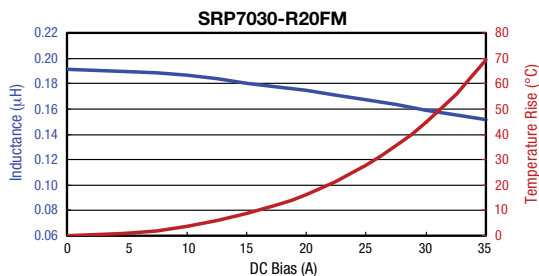
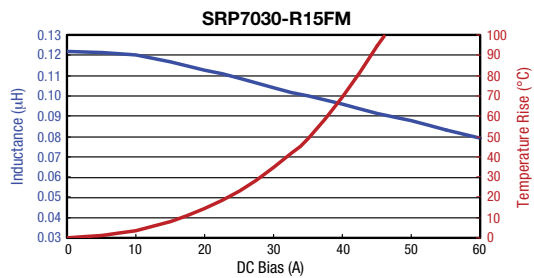
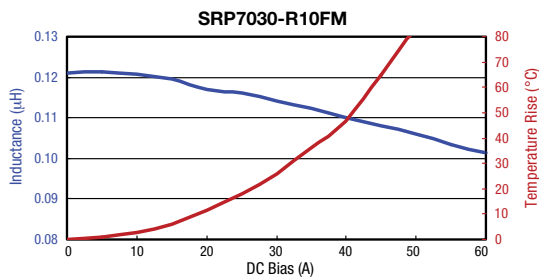
Applications

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

SRP7030F Series - Shielded Power Inductors

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L vs. I Charts



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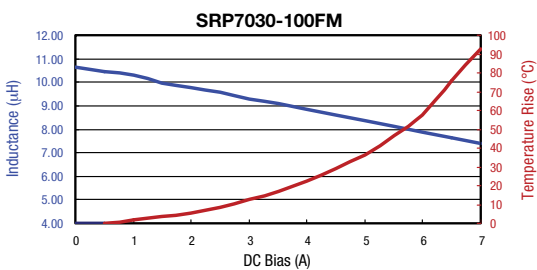
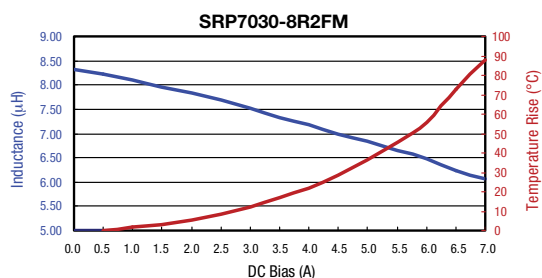
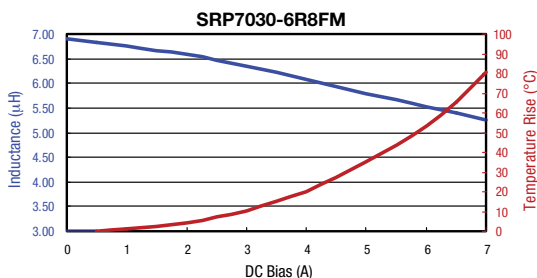
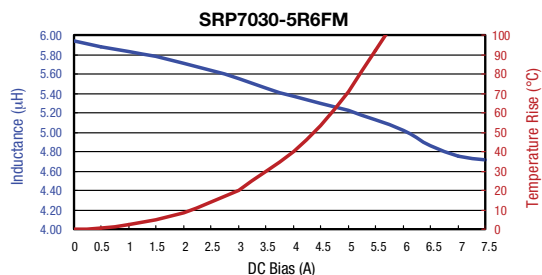
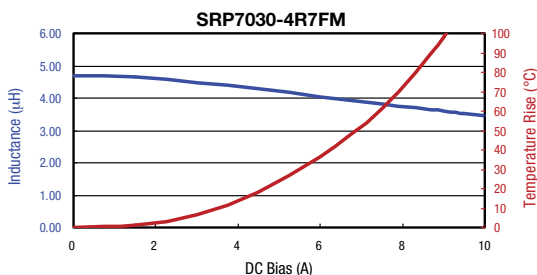
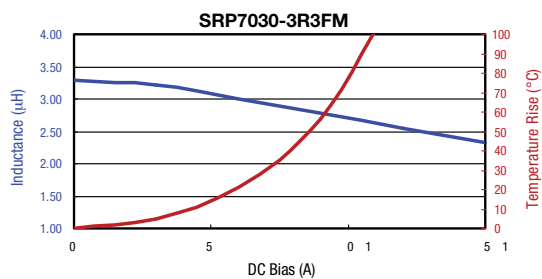
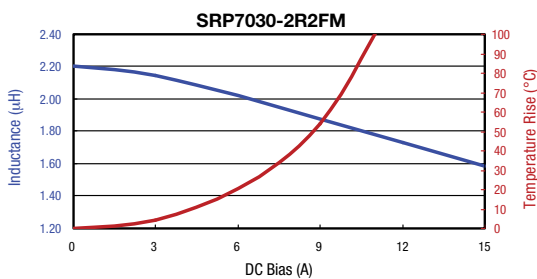
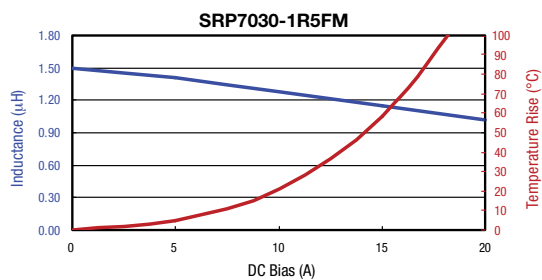
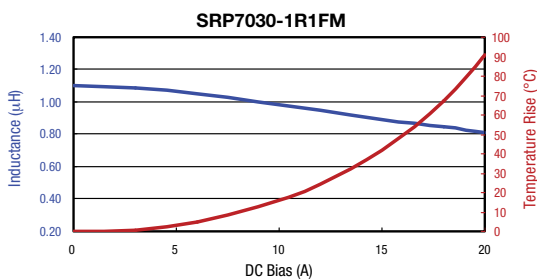
Users should verify actual device performance in their specific applications.

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SRP7030F Series - Shielded Power Inductors

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Technical drawing of a reel of 2R2 components. The drawing includes a top view of the reel, a side view of the tape, a detail of the carrier tape, and a detail of the component. Dimensions are given in mm and inches.

Top View Dimensions:

- Reel Diameter: 20.0 ± 0.5 mm ($.079 \pm .020$)
- Inner Diameter: 13.0 ± 1.0 mm ($.512 \pm .039$)
- Outer Diameter: 20.0 ± 0.5 mm ($.787 \pm .020$)
- Reel Width: 16.0 ± 0.5 mm (0.63 ± 0.020)

Side View Dimensions:

- Reel Thickness: 2.0 ± 0.2 mm ($.079 \pm .008$)
- Reel Height: 100.0 ± 1.0 mm ($3.937 \pm .039$)
- Reel Depth: 330.0 ± 2.0 mm ($12.992 \pm .079$)

Carrier Tape Dimensions:

- Carrier Tape Width: 12.0 ± 0.1 mm ($.472 \pm .004$)
- Carrier Tape Thickness: 0.40 ± 0.05 mm ($.016 \pm .002$)
- Carrier Tape Height: 6.8 ± 0.1 mm ($.268 \pm .004$)
- Carrier Tape Depth: 3.6 ± 0.15 mm ($.142 \pm .006$)

Component Dimensions:

- Component Diameter: $1.50 \pm 0.1/-0.0$ mm ($.059 \pm .004/-0.000$)
- Component Height: 1.75 ± 0.1 mm ($.069 \pm .004$)
- Component Width: 7.5 ± 0.1 mm ($.295 \pm .004$)
- Component Depth: 16.0 ± 0.3 mm ($.630 \pm .012$)
- Component Thickness: 7.00 mm ($.276$)
- Component Angle: 8°
- Component Height (Total): 7.8 ± 0.1 mm ($.307 \pm .004$)

Peeling Process:

- Peel Speed: APPROX. 300 MM / MINUTE
- Peel Force: 0.3 TO 1.5 N
- Peel Angle: $165 \sim 180^\circ$
- Peel Force: $0.3 \sim 1.5$ N

USER DIRECTION OF FEED

QTY: 1000 PCS. PER REEL

DIMENSIONS: MM (INCHES)

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