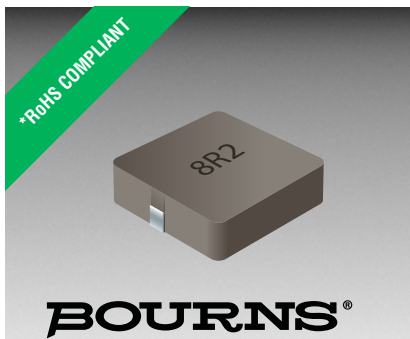




Features

- 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*

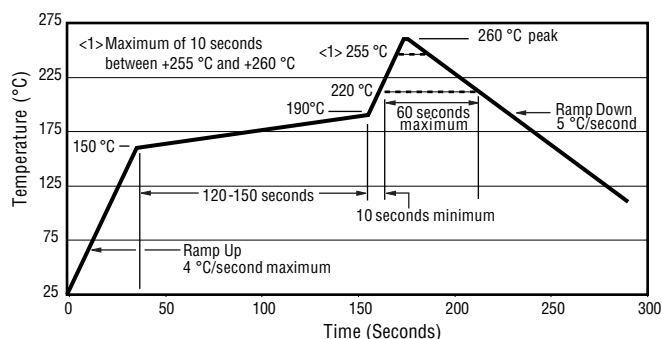
 This series is currently available but not recommended for new designs. The newer **SRP7028A series** is recommended.

SRP7030F Series - Shielded Power Inductors

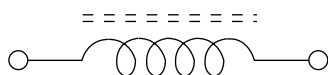
Electrical Specifications

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

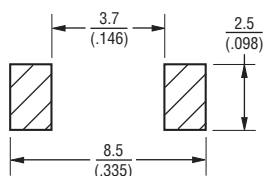
Soldering Profile



Electrical Schematic



Recommended Layout



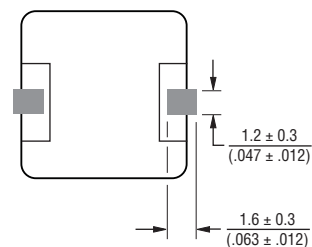
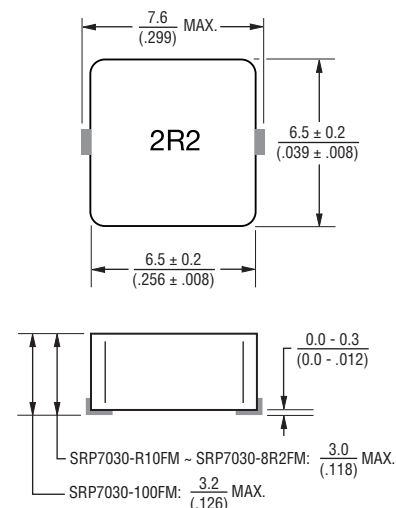
General Specifications

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.

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.

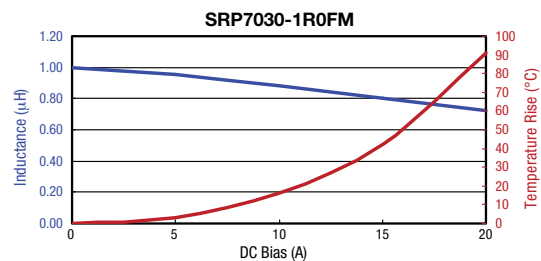
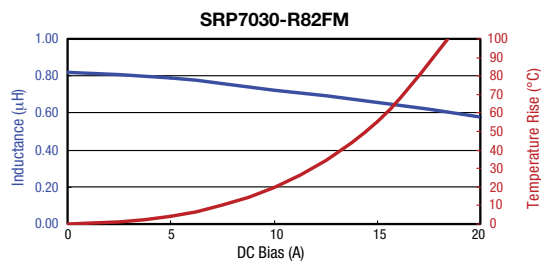
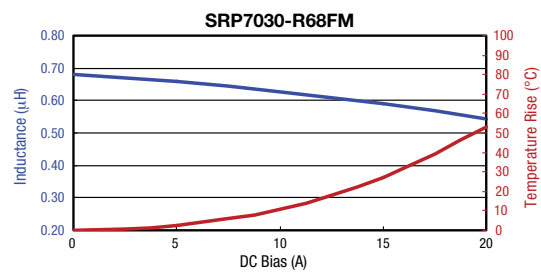
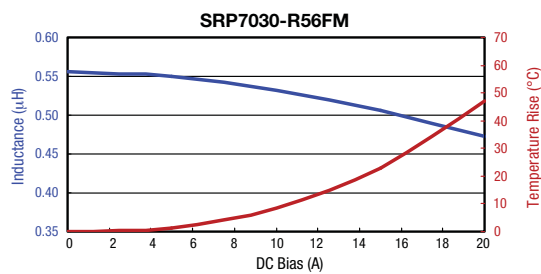
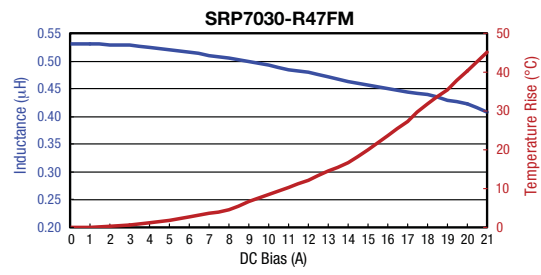
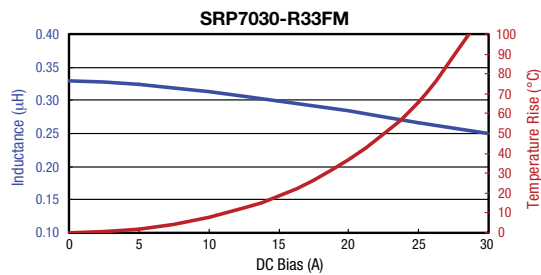
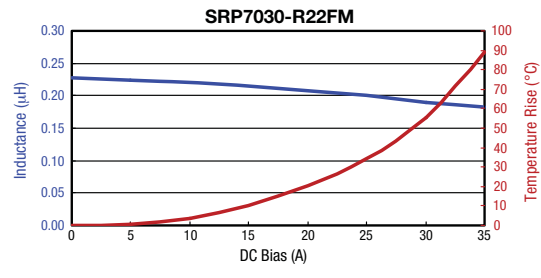
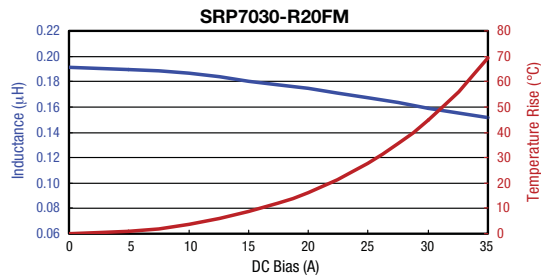
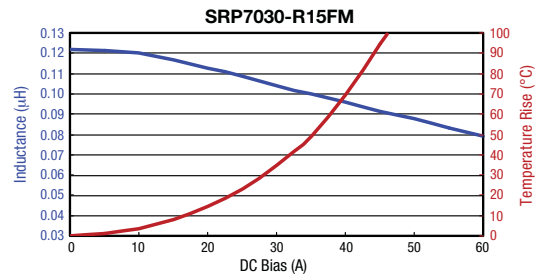
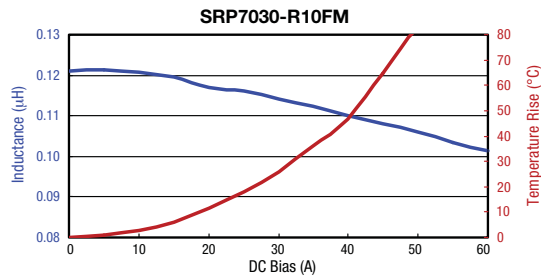
Applications

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

SRP7030F Series - Shielded Power Inductors

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L vs. I Charts

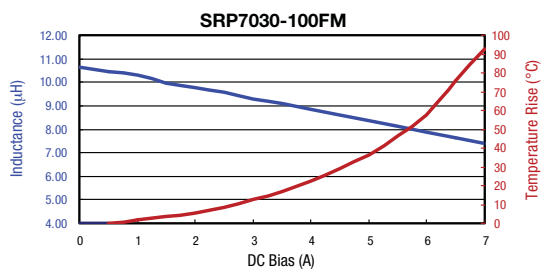
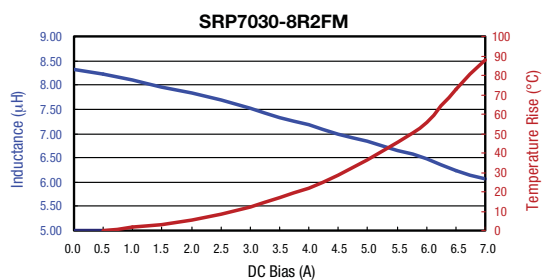
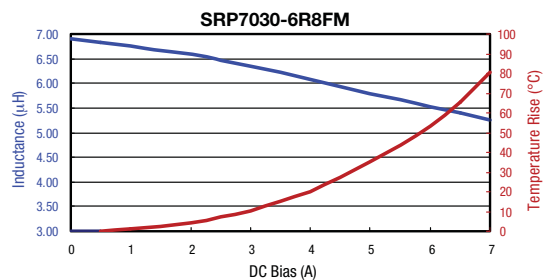
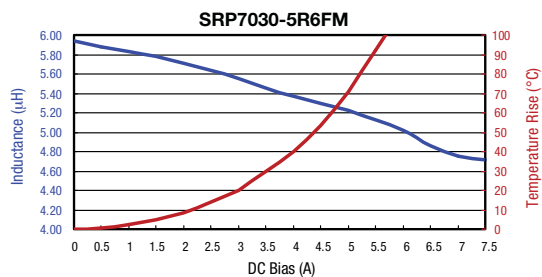
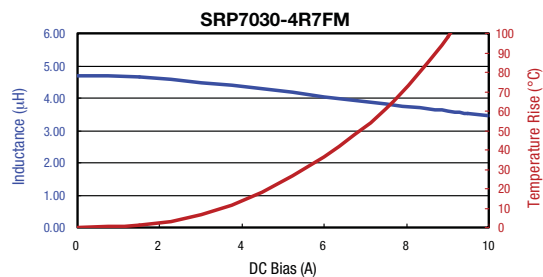
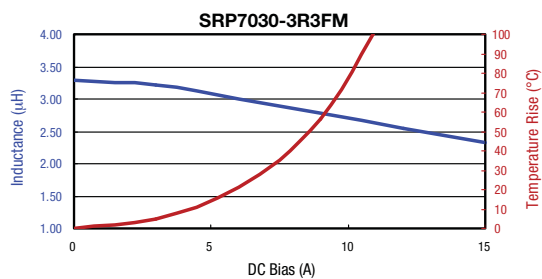
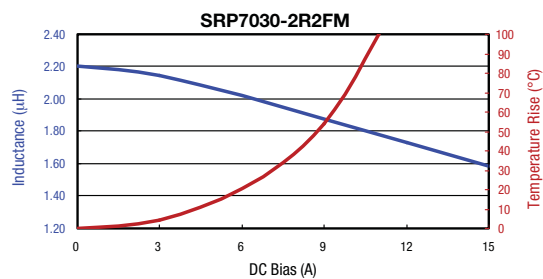
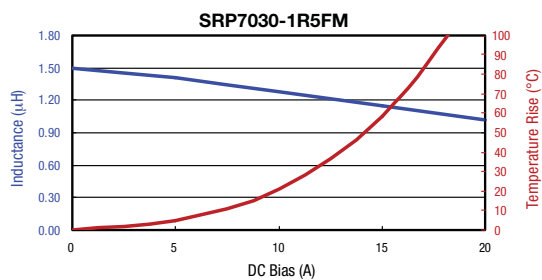
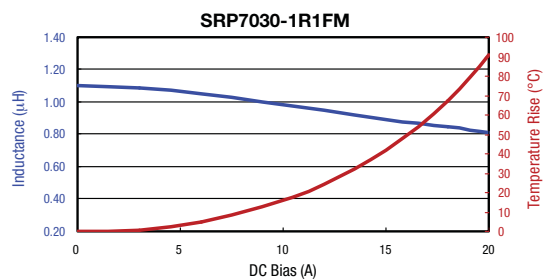


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 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
 Users should verify actual device performance in their specific applications.

SRP7030F Series - Shielded Power Inductors

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L vs. I Charts



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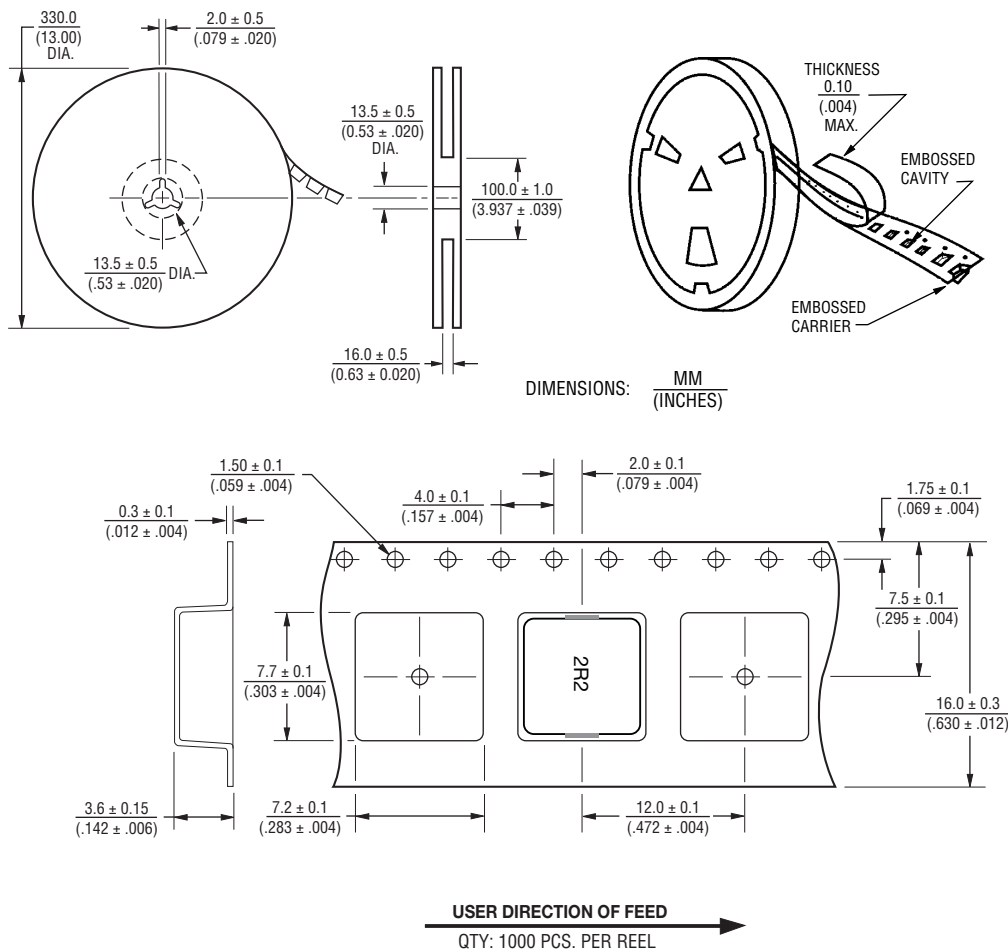
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SRP7030F Series - Shielded Power Inductors

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Packaging Specifications



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EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

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Mouser Electronics

Authorized Distributor

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

Bourns:

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[SRP7030-4R7FM](#) [SRP7030-5R6FM](#) [SRP7030-6R8FM](#) [SRP7030-8R2FM](#) [SRP7030-R10FM](#) [SRP7030-R15FM](#)
[SRP7030-R20FM](#) [SRP7030-R22FM](#) [SRP7030-R33FM](#) [SRP7030-R47FM](#) [SRP7030-R56FM](#) [SRP7030-R68FM](#)
[SRP7030-R82FM](#)