



Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.33 to 68 μ H
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

Applications

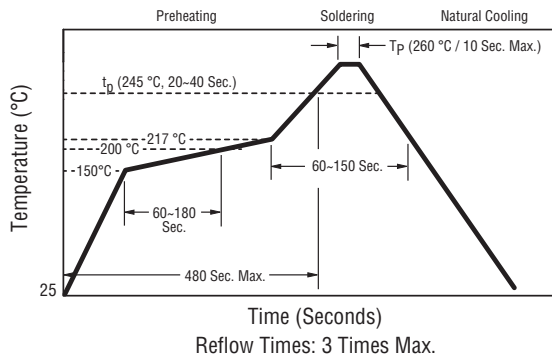
- Automotive systems:
 - Driver assistant
 - Information
 - Entertainment
 - Lighting
- DC/DC converters
- Power supplies

SRP7050TA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Min.) @100 KHz / 1 V	SRF (MHz) Typ.	DCR (m Ω) Typ.	DCR (m Ω) Max.	I _{rms} (A)	Isat (A)
	L (μ H)	Tol. (%)						
SRP7050TA-R33M	0.33	± 20	10	100	2.5	3	25	32
SRP7050TA-R40M	0.40	± 20	10	100	3.1	3.7	23	31
SRP7050TA-R47M	0.47	± 20	10	95	3.5	3.9	22	30
SRP7050TA-R56M	0.56	± 20	10	80	3.6	4.2	20	27
SRP7050TA-R60M	0.60	± 20	10	80	3.8	4.3	19	25
SRP7050TA-R68M	0.68	± 20	10	75	4	4.5	18	24
SRP7050TA-R82M	0.82	± 20	10	70	4.6	4.9	16.5	22
SRP7050TA-1R0M	1.0	± 20	10	50	6.1	6.5	15	20
SRP7050TA-1R2M	1.2	± 20	15	45	6.7	7.5	14	18
SRP7050TA-1R5M	1.5	± 20	15	43	8.6	9	12	16.5
SRP7050TA-1R8M	1.8	± 20	15	38	9.5	11	12	15
SRP7050TA-2R2M	2.2	± 20	15	30	11.2	12	10	14
SRP7050TA-3R3M	3.3	± 20	15	26	19	20.9	8	12
SRP7050TA-4R7M	4.7	± 20	15	22	28	30.8	6.5	10
SRP7050TA-5R6M	5.6	± 20	15	20	43.5	49	6	9
SRP7050TA-6R8M	6.8	± 20	15	18	46	51.5	5.5	8.5
SRP7050TA-8R2M	8.2	± 20	15	16	56	63	5	8
SRP7050TA-100M	10	± 20	15	15	60	69	4	7.5
SRP7050TA-150M	15	± 20	15	12	81	92	3.5	6
SRP7050TA-220M	22	± 20	15	9	140	170	2.5	5.5
SRP7050TA-470M	47	± 20	15	8	290	330	1.9	2.7
SRP7050TA-560M	56	± 20	15	7	342	396	1.6	2.1
SRP7050TA-680M	68	± 20	15	6	386	445	1.2	2

Soldering Profile

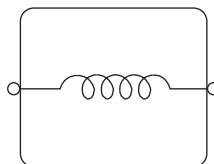


How to Order

SRP7050TA - 100 M

Model _____
 Value Code (see table) _____
 Tolerance Code _____

Schematic



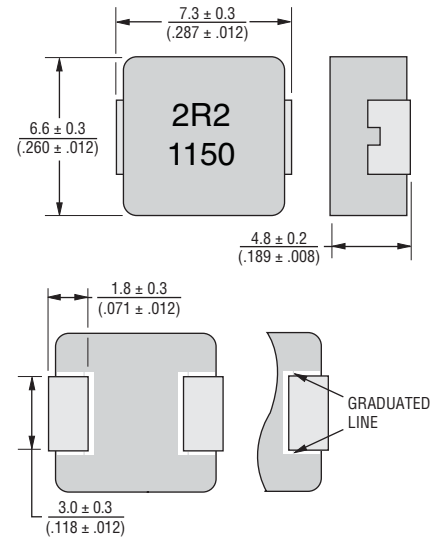
General Specifications

Operating Temperature-40 °C to +150 °C
 (Temperature rise included)
 Storage Temperature-40 °C to +125 °C
 Rated Current Inductance drops 20 % at Isat
 Temperature Rise40 °C at rated I_{rms}

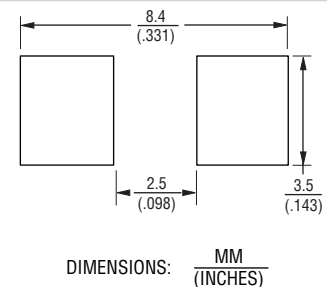
Materials

Core.....Carbonyl powder
 Wire.....Enameled copper
 Terminal Finish.....Sn
 Packaging..... 800 pcs. per 13-inch reel

Product Dimensions



Recommended Layout



* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

**Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

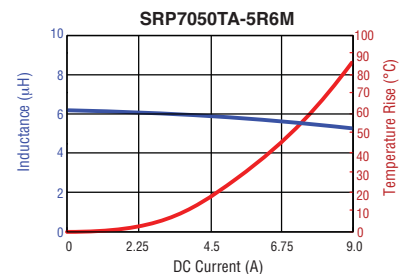
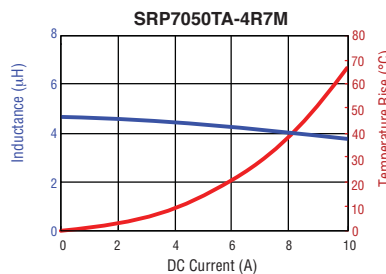
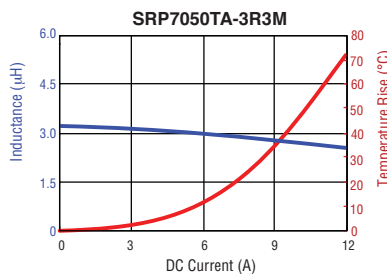
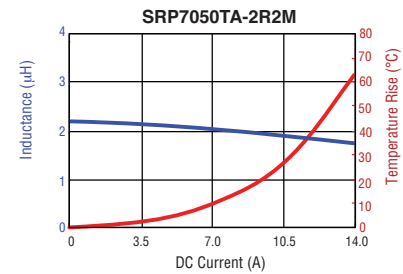
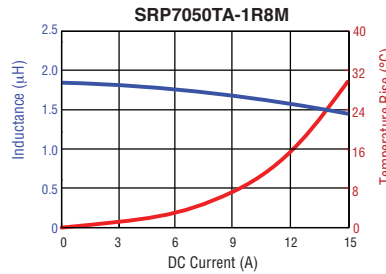
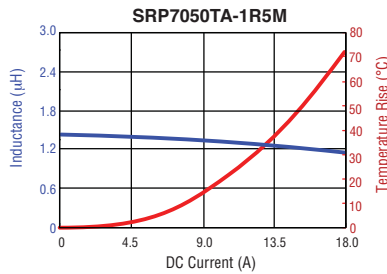
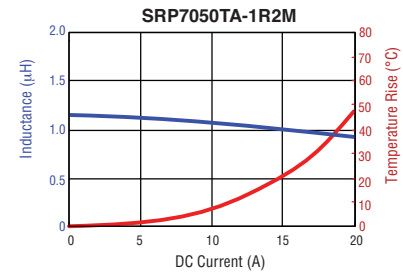
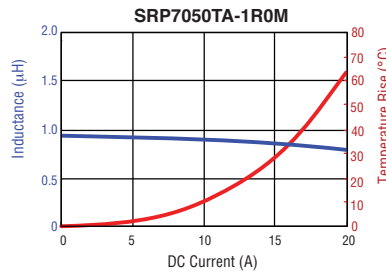
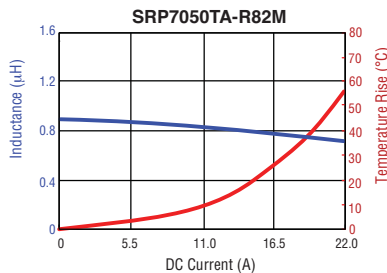
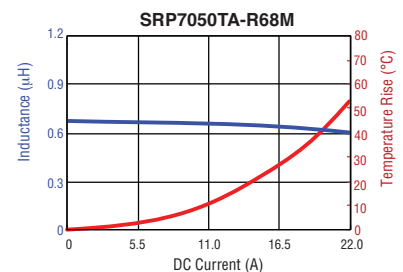
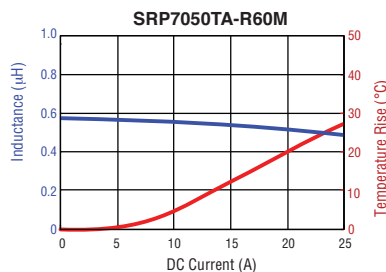
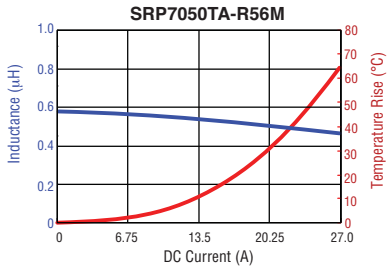
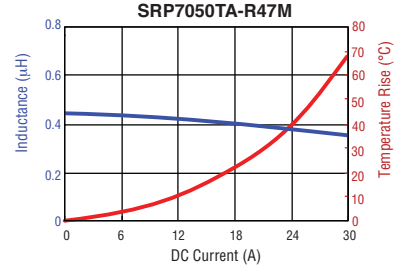
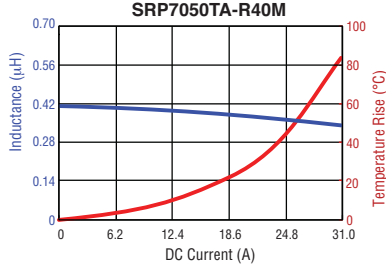
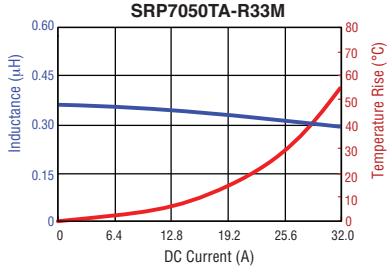
Specifications are subject to change without notice.

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.

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L vs. I Charts

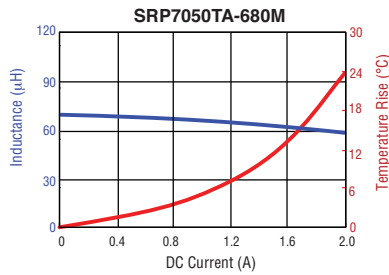
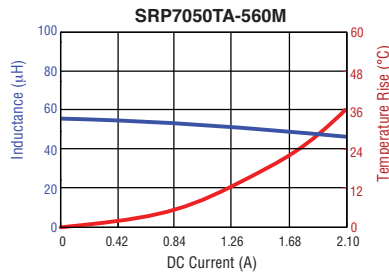
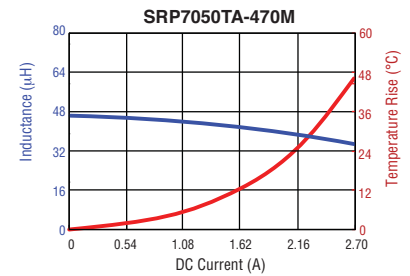
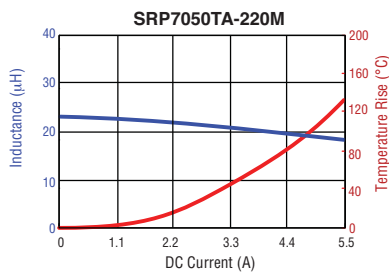
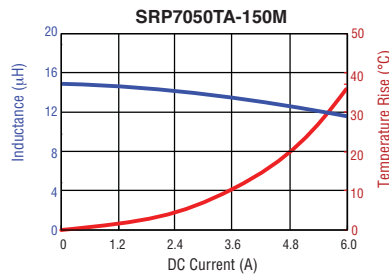
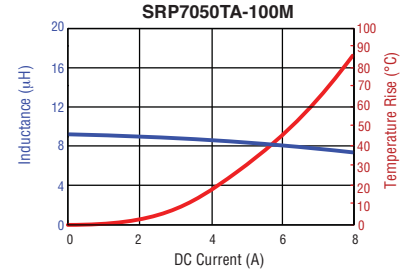
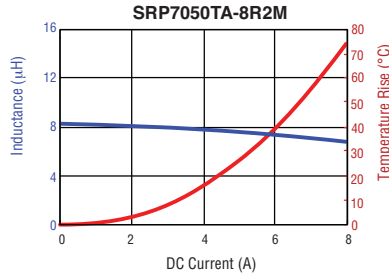
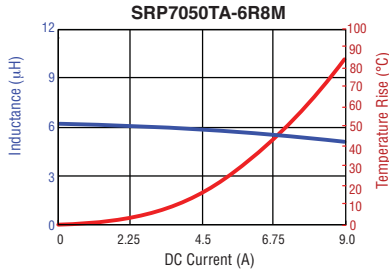


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L vs. I Charts (Continued)



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