

Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Inductance range 0.15 to 10 µH
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

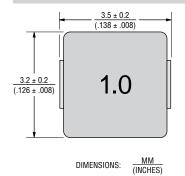
BOURNS®

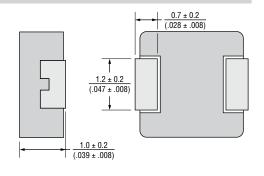
SRP3012TA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		SRF (MHz)	DCR (mΩ)	DCR (mΩ)	I rms (A)	l sat (A)
	L (µH)	Tol. %	Typ.	Typ.	Max.	Typ.	Typ.
SRP3012TA-R15Y	0.15	± 20 %	195	9.6	11	10	14
SRP3012TA-R22M	0.22	± 20 %	170	14	17	6.5	10
SRP3012TA-R33M	0.33	± 20 %	150	16	20	6.2	9.2
SRP3012TA-R36M	0.36	± 20 %	125	18.5	23	6.0	8.5
SRP3012TA-R47M	0.47	± 20 %	107	25	30	5.0	7.2
SRP3012TA-R56M	0.56	± 20 %	90	31	36	4.5	6.6
SRP3012TA-R68M	0.68	± 20 %	85	34	40	4.0	6.1
SRP3012TA-R82M	0.82	± 20 %	71	41	48	3.5	5.8
SRP3012TA-1R0M	1.0	± 20 %	65	50	60	3.3	5.5
SRP3012TA-1R5M	1.5	± 20 %	55	71	85	3.0	4.0
SRP3012TA-2R2M	2.2	± 20 %	45	98	115	2.7	3.4
SRP3012TA-3R3M	3.3	± 20 %	40	191	210	2.0	3.1
SRP3012TA-4R7M	4.7	± 20 %	35	266	293	1.6	2.8
SRP3012TA-5R6M	5.6	± 20 %	32	310	360	1.5	2.2
SRP3012TA-6R8M	6.8	± 20 %	29	360	400	1.4	2.0
SRP3012TA-8R2M	8.2	± 20 %	26	420	463	1.2	1.7
SRP3012TA-100M	10	± 20 %	23	498	550	1.0	1.4

Product Dimensions





<u>^</u>

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

RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** 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. 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.

Additional Information

Click these links for more information:











PRODUCT SELECTOR

TECHNICAL LIBRARY

INVENTORY SAMPLES

CONTACT

General Specifications

Operating Temperature

......55 °C to +150 °C (Temperature rise included)
Storage Temperature (Component)

.....-55 °C to +150 °C

Rated Current

Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

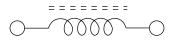
Core......Metal alloy powder
Wire.....Enameled copper
Terminal Finish.....Sn/Ni
Packaging.....4000 pcs. per 13-inch reel

How to Order

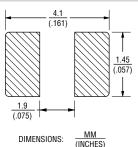
SRP3012TA - 1R0M

Model Value Code (see table)

Schematic

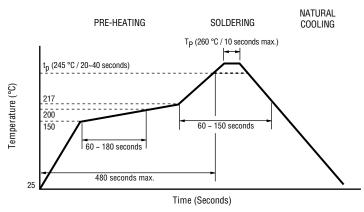


Recommended Layout



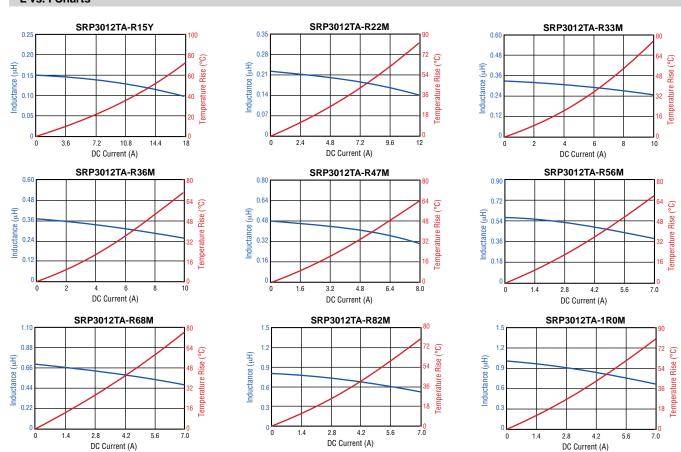
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Soldering Profile



REFLOW TIMES: 3 MAX.

L vs. I Charts



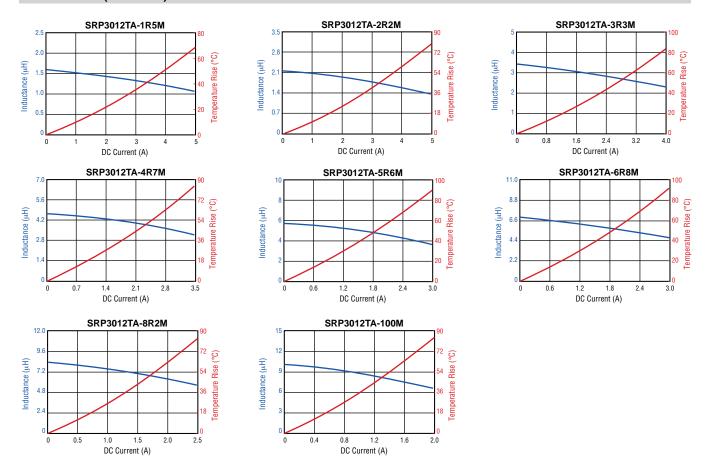
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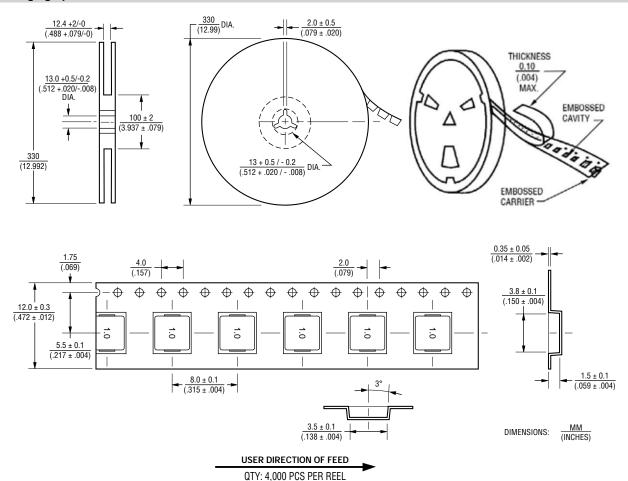
L vs. I Charts (Continued)



SRP3012TA Series - Shielded Power Inductors

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Packaging Specifications



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Asia: Tel: +886-2-2562-4117 • Email: asiacus@bourns.com
EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

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