

Features

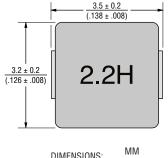
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Inductance range 0.1 to 10 µH
- RoHS compliant* and halogen free**

SRP3020C Series – Shielded Power Inductors

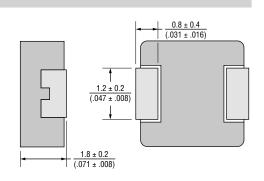
Electrical Specifications @ 25 °C

Bourns	Inductance @ 100 kHz / 1 V		Q Min. @	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	I rms (A)	I sat (A)	
Part Number	L (µH)	Tol. %	100 kHz	Тур.	Тур.	Max.	Typ.	Typ.	Marking
SRP3020C-R10Y	0.10	± 30 %	10	208	6.5	7	10	11.5	.10H
SRP3020C-R22Y	0.22	± 30 %	10	140	11.5	14	8.5	9.2	.22H
SRP3020C-R36M	0.36	± 20 %	10	105	17	21	7	8	.36H
SRP3020C-R47M	0.47	± 20 %	10	83	19.7	23	6	7	.47H
SRP3020C-R68M	0.68	± 20 %	10	72	24	29	5.5	6	.68H
SRP3020C-1R0M	1.0	± 20 %	10	66	30	36	5	5.5	1.0H
SRP3020C-1R5M	1.5	± 20 %	10	50	44	50	3.7	4	1.5H
SRP3020C-2R2M	2.2	± 20 %	10	47	65	75	3.5	3.7	2.2H
SRP3020C-3R3M	3.3	± 20 %	10	44	125	145	2.6	2.8	3.3H
SRP3020C-4R7M	4.7	± 20 %	10	29	167	200	1.8	2	4.7H
SRP3020C-5R6M	5.6	± 20 %	10	28	205	238	1.7	1.9	5.6H
SRP3020C-6R8M	6.8	± 20 %	10	27	260	300	1.6	1.8	6.8H
SRP3020C-8R2M	8.2	± 20 %	10	27	340	390	1.4	1.4	8.2H
SRP3020C-100M	10	± 20 %	10	26	360	422	1.3	1.3	10H

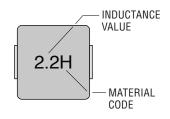
Product Dimensions







Typical Part Marking



General Specifications

Operating Temperature

.....-40 °C to +125 °C (Temperature rise included) Storage Temperature (Component)

.....-40 °C to +125 °C

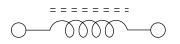
Rated Current

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

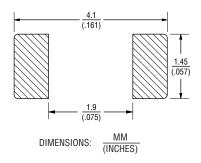
Materials

How to Order

Schematic



Recommended Layout



Specifications are subject to change without notice.

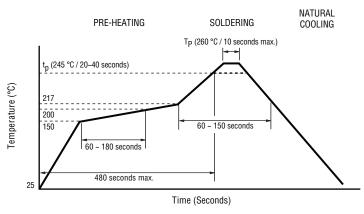
Users should verify actual device performance in their specific applications.

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^{*} RoHS Directive 2015/863, Mar 31, 2015 and Annex.

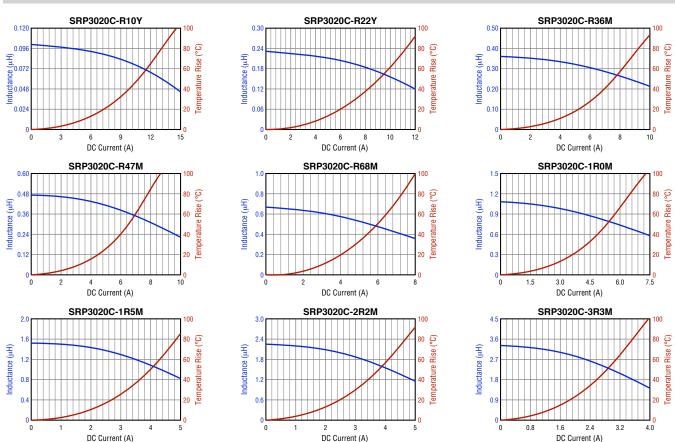
^{**} Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Soldering Profile



REFLOW TIMES: 3 MAX.

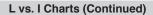
L vs. I Charts

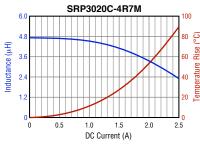


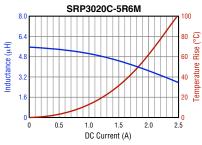
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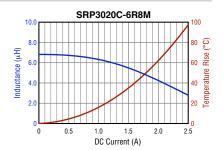
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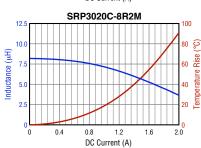
SRP3020C Series – Shielded Power Inductors

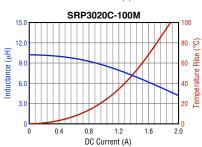








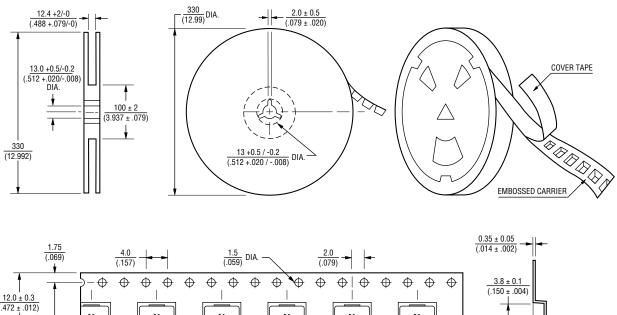


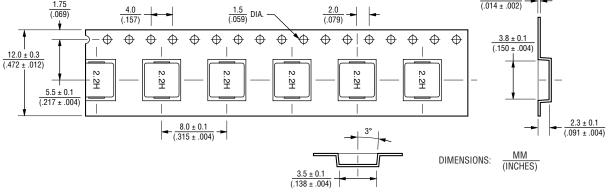


SRP3020C Series – Shielded Power Inductors

BOURNS

Packaging Specifications





USER DIRECTION OF FEED

QTY: 3,000 PCS PER REEL

BOURNS®

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EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

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Users should verify actual device performance in their specific applications.

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 SRP3020C-8R2M
 SRP3020C-R10Y
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 SRP3020C-R36M
 SRP3020C-R47M

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