



Features

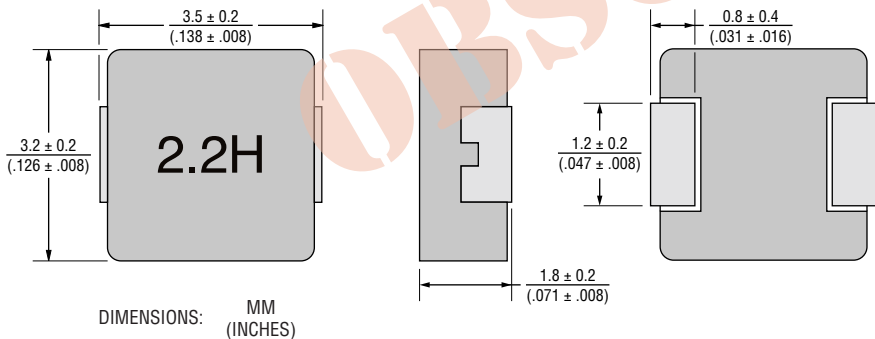
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Inductance range 0.1 to 10 μ H
- RoHS compliant* and halogen free**

SRP3020C Series – Shielded Power Inductors

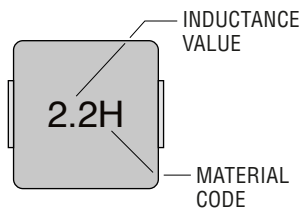
Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		Q Min. @ 100 kHz	SRF (MHz) Typ.	DCR (m Ω) Typ.	DCR (m Ω) Max.	I rms (A) Typ.	I sat (A) Typ.	Marking
	L (μ H)	Tol. %							
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
..... Inductance drops 30 % at Isat

Temperature Rise ... 40 °C at rated Irms¹

MSL 1

ESD Classification (HBM)..... N/A

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

Core..... Metal alloy powder

Wire..... Enameled copper

Terminal Finish Sn

Packaging..... 3000 pcs. per 13-inch reel

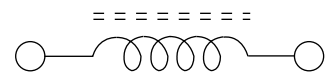
How to Order

SRP3020C - 100M

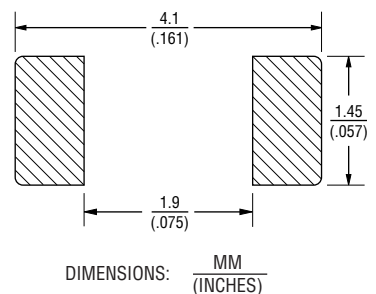
Model _____

Value Code (see table) _____

Schematic



Recommended Layout



* 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.

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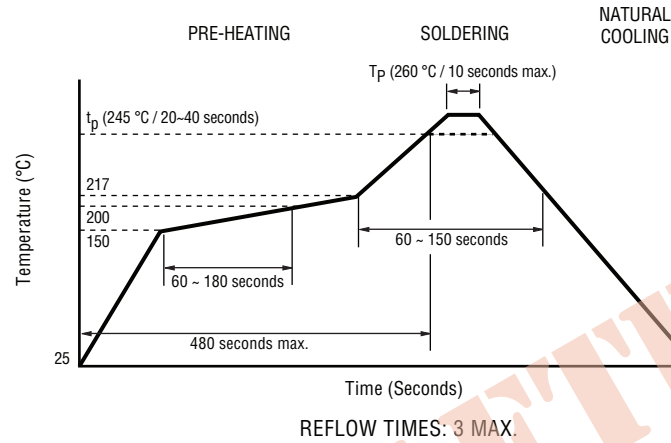


WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

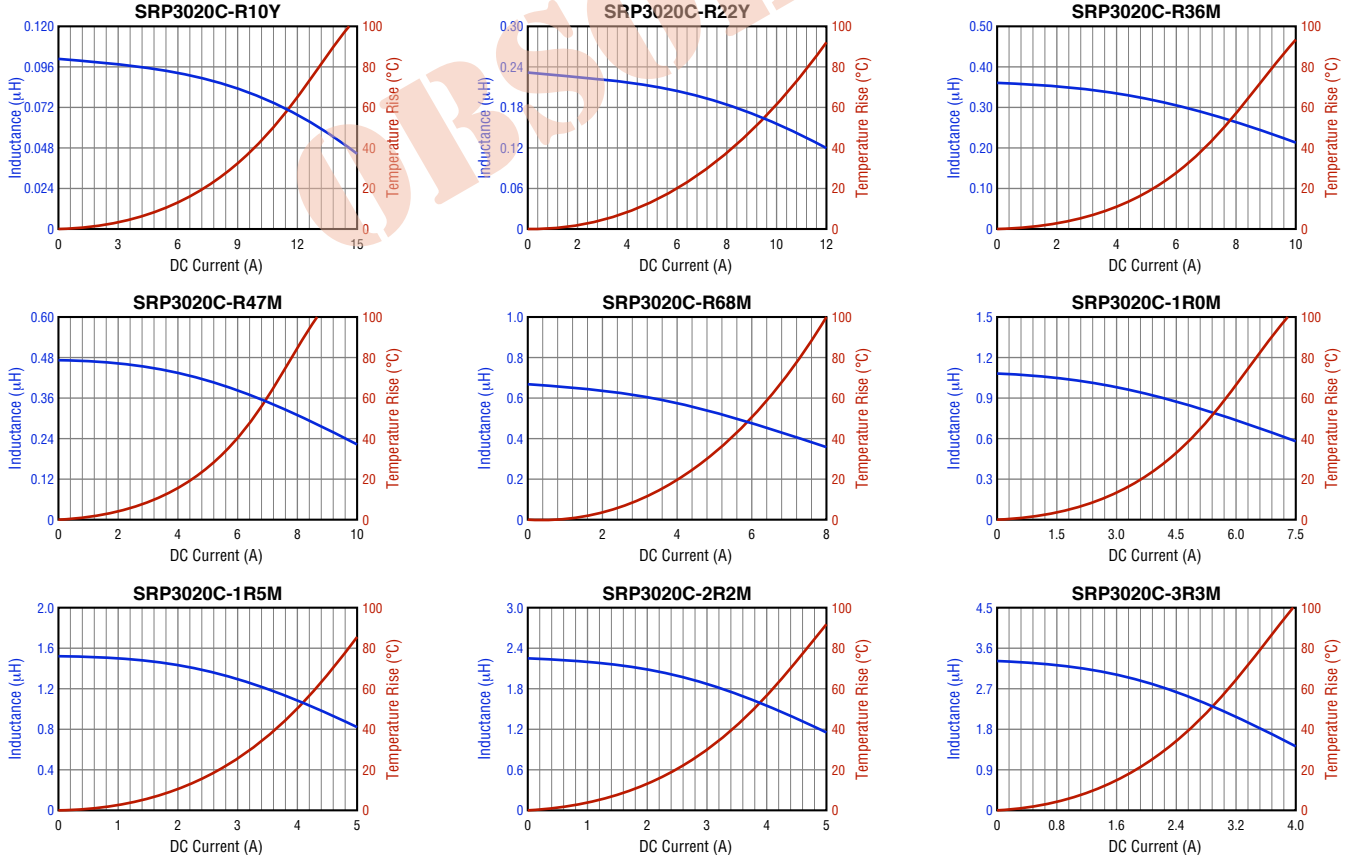
SRP3020C Series – Shielded Power Inductors

BOURNS®

Soldering Profile



L vs. I Charts



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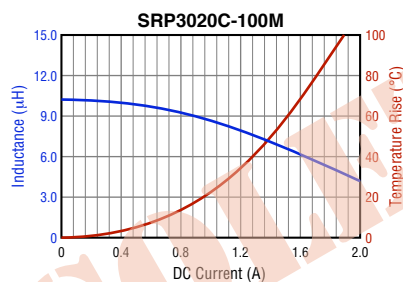
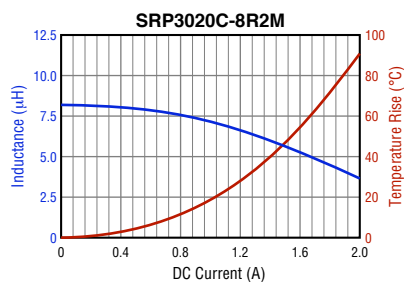
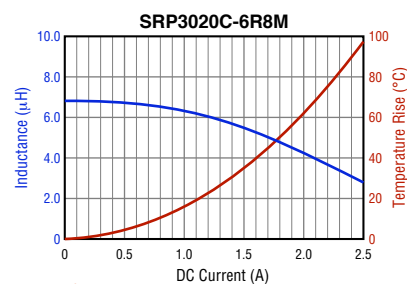
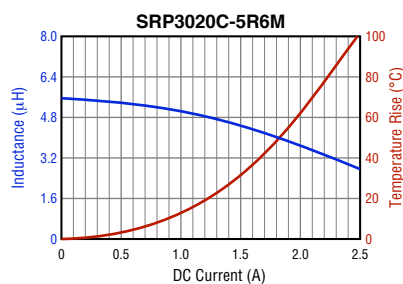
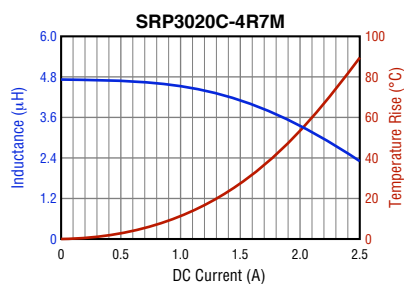
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L vs. I Charts (Continued)



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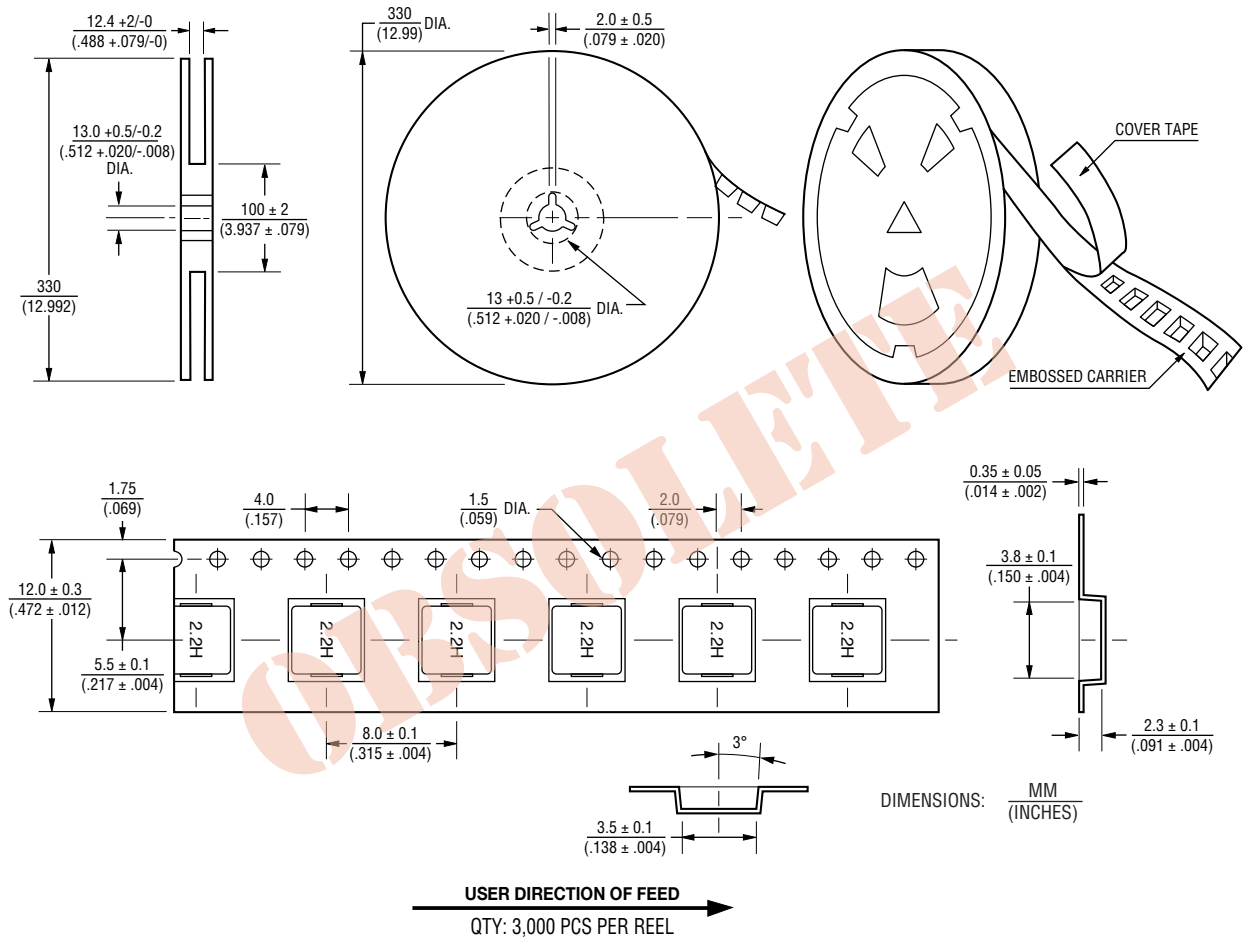
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Packaging Specifications



BOURNS®

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