



**THE DATASHEET OF
SRP5030C-R15Y**





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**



This series is currently available but not recommended for new designs.

BOURNS®

SRP5030C 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.
	L (μ H)	Tol. %						
SRP5030C-R10Y	0.10	± 30 %	10	177	2.5	3	25	33
SRP5030C-R12Y	0.12	± 30 %	10	177	2.5	3	23	31
SRP5030C-R15Y	0.15	± 30 %	12	130	2.6	3.2	22	30
SRP5030C-R33M	0.33	± 20 %	12	85	4.4	5	17	20
SRP5030C-R47M	0.47	± 20 %	20	60	6.4	7.4	16	17
SRP5030C-R68M	0.68	± 20 %	20	56	8.7	10	12	15
SRP5030C-1R0M	1.0	± 20 %	20	43	12	14	10	12
SRP5030C-1R5M	1.5	± 20 %	20	35	16	19	8	10.5
SRP5030C-2R2M	2.2	± 20 %	20	30	26	32	7	8
SRP5030C-3R3M	3.3	± 20 %	20	25	33	38	5	7
SRP5030C-4R7M	4.7	± 20 %	20	20	50	53	4	6
SRP5030C-5R6M	5.6	± 20 %	20	18	55	63	3.6	5
SRP5030C-6R8M	6.8	± 20 %	20	16	63	72	3.3	4
SRP5030C-100M	10	± 20 %	20	15	102	122	2.8	2.8

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 Irms!
 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.

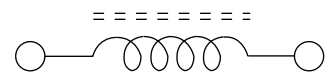
Materials

Core..... Metal alloy powder
 Wire Enameled copper
 Terminal Finish Sn
 Packaging 2000 pcs. per 13-inch reel

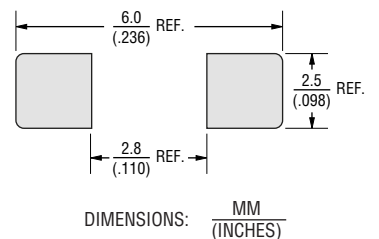
How to Order

SRP5030C - 100M
 Model _____
 Value Code (see table) _____

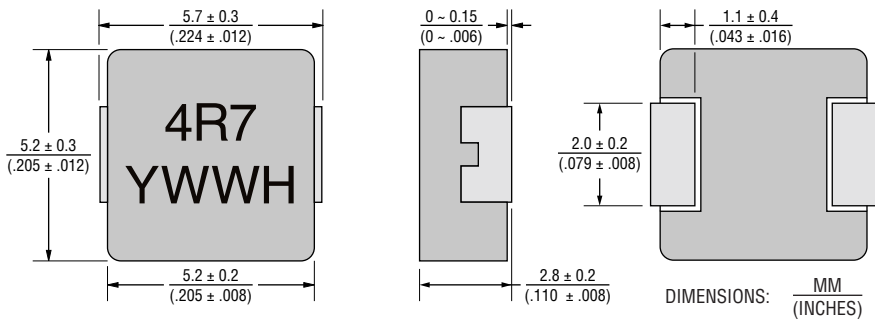
Schematic



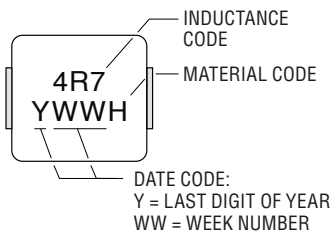
Recommended Layout



Product Dimensions



Typical Part Marking



* 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

SRP5030C Series – Shielded Power Inductors

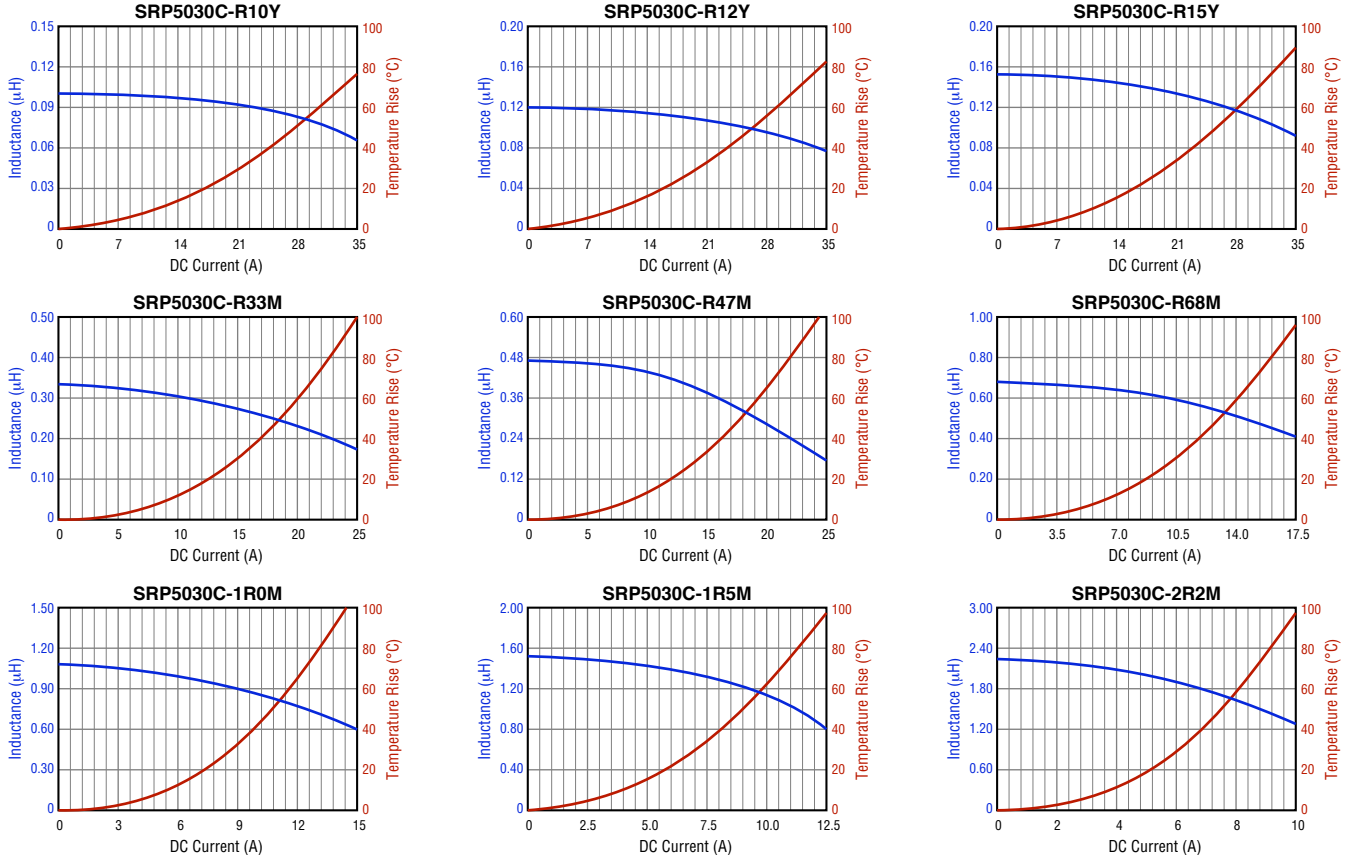
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Soldering Profile



REFLOW TIMES: 3 MAX.

L vs. I Charts



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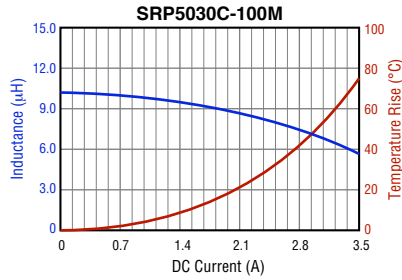
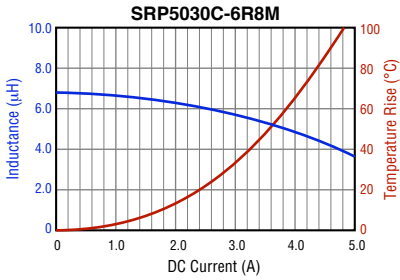
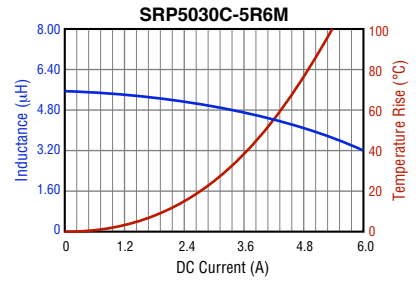
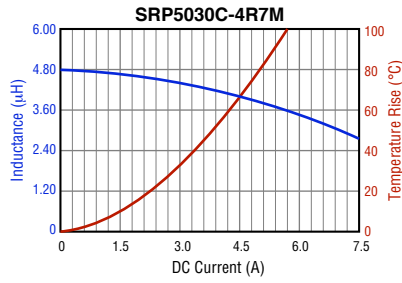
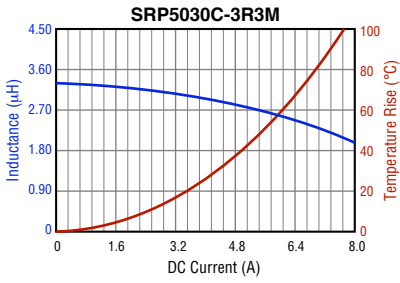
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L vs. I Charts (Continued)



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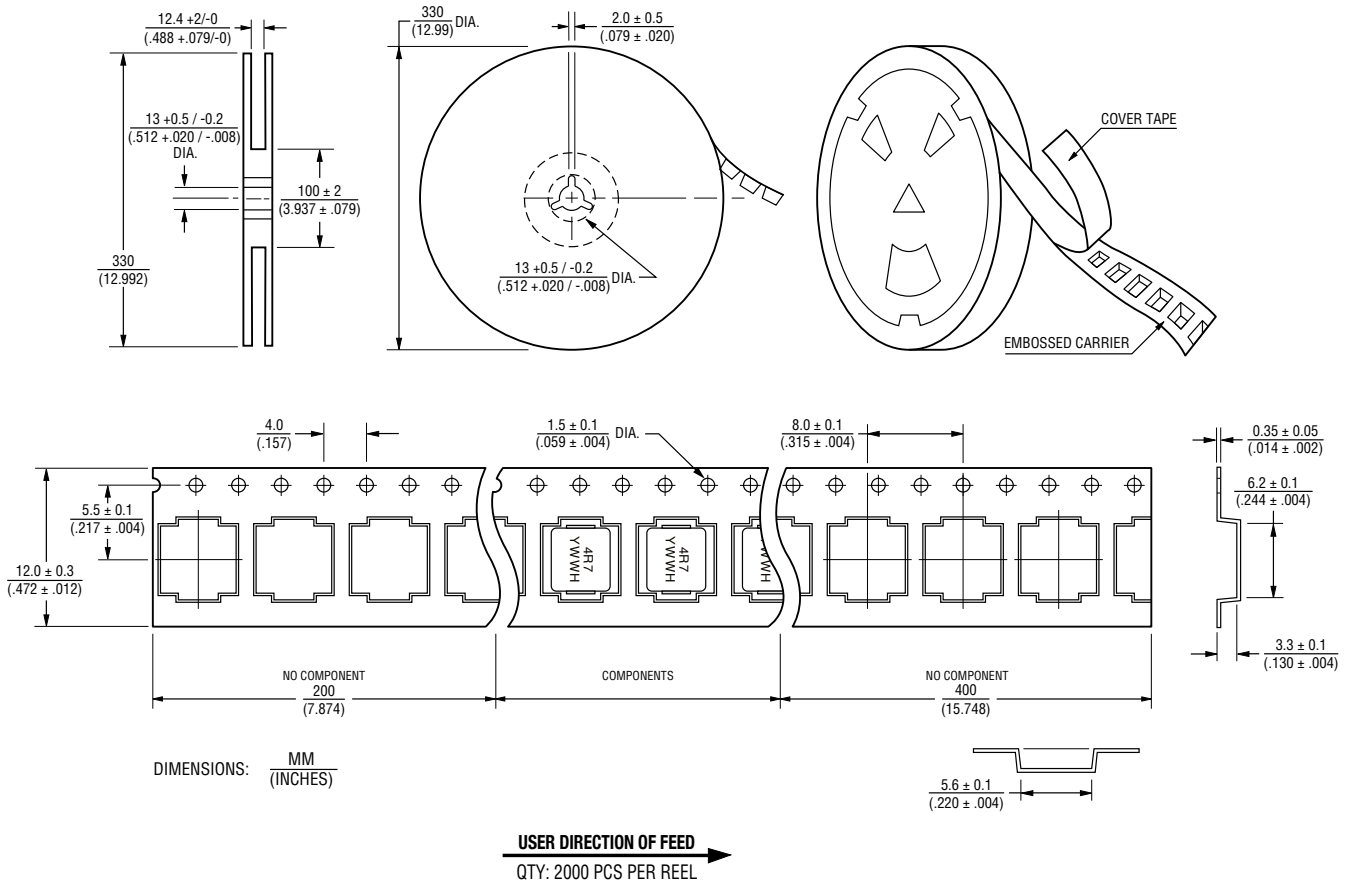
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Packaging Specifications



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REV. 05/22

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