

Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

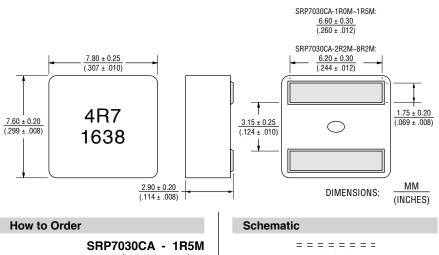
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SRP7030CA Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		SRF	DCR	DCR	l rms (A) Typ.		l sat
	L (µH)	Tol. %	(MHz) Typ.	(mΩ) Typ.	(mΩ) Max.	20 °C Temp. Rise	40 °C Temp. Rise	(A) Typ.
SRP7030CA-1R0M	1.0	± 20 %	35	4.55	5.00	16.1	21.8	30.0
SRP7030CA-1R5M	1.5	± 20 %	31	7.50	8.25	12.0	15.3	25.0
SRP7030CA-2R2M	2.2	± 20 %	38	12.40	13.70	10.0	13.0	19.0
SRP7030CA-3R3M	3.3	± 20 %	22	16.30	18.00	8.0	10.0	15.0
SRP7030CA-4R7M	4.7	± 20 %	18	24.20	26.70	6.9	9.0	13.5
SRP7030CA-5R6M	5.6	± 20 %	16	30.10	33.20	5.3	7.3	12.5
SRP7030CA-6R8M	6.8	± 20 %	14	38.60	42.50	4.5	6.8	12.0
SRP7030CA-8R2M	8.2	± 20 %	12	44.30	48.73	3.0	5.9	10.2

Product Dimensions



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Model

Value Code (see table)

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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 (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) 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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General Specifications

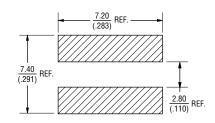
Operating Temperature
(Temperature rise included)
Storage Temperature (Component)
-55 °C to +155 °C
Rated Current Inductance drops
30 % at Isat
Temperature Rise20 or 40 °C
at rated Irms ¹
MSL 1
ESD Classification (HBM)N/A
Note 1: Circuit design, component, PCB trace size and thickness, airflow and other 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
Packaging 1500 p	ocs. per 13-inch reel

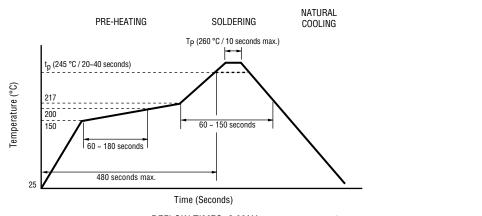
Recommended Layout



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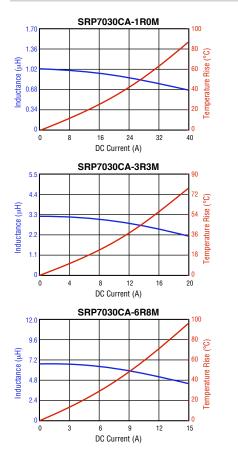
Soldering Profile

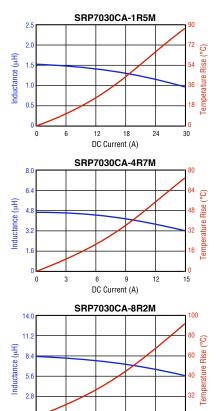


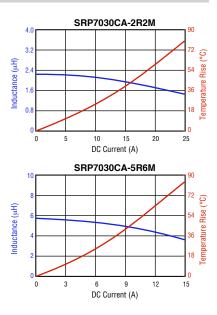
REFLOW TIMES: 3 MAX.

NOTE: 0.15 mm thick solder paste recommended.

L vs. I Charts







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4.8

7.2

DC Current (A)

9.6

12.0

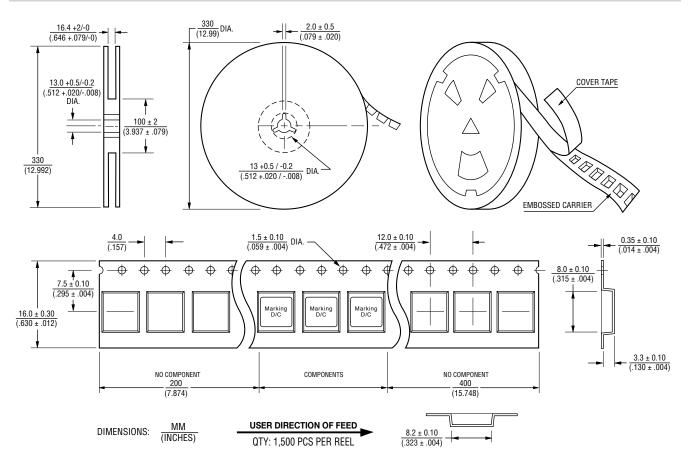
2.4

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Packaging Specifications



05/19

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