

Features

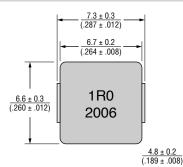
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

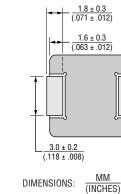
SRP7050AA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Typ.) @100 KHz	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	Isat (A)
	L (µH)	Tol. (%)	/1V	Тур.	Тур.	Max.	Тур.	Тур.
SRP7050AA-R47Y	0.47	20	10	89	2.9	3.3	22	22
SRP7050AA-R68M	0.68	20	10	65	3.6	4.1	20	20
SRP7050AA-1R0M	1.0	20	10	47	5.6	6.2	17	16
SRP7050AA-1R5M	1.5	20	10	32	6.6	7.3	15	13
SRP7050AA-2R2M	2.2	20	10	24	10	11.5	14	10
SRP7050AA-3R3M	3.3	20	10	21	14	16.2	13	9.5
SRP7050AA-4R7M	4.7	20	10	19	20.8	24	11	8.8
SRP7050AA-6R8M	6.8	20	10	14	30	36	9.0	7.6
SRP7050AA-8R2M	8.2	20	10	13	38.5	45	7.5	6.5
SRP7050AA-100M	10	20	10	12	44	53	7.0	6.0
SRP7050AA-150M	15	20	10	10	73	85	5.0	4.0
SRP7050AA-220M	22	20	10	8	122	142	4.2	3.6
SRP7050AA-470M	47	20	10	6	275	320	2.6	1.8

Product Dimensions





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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.

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Additional Information

Click these links for more information:



General Specifications

Operating Temperature

.....-55 °C to +155 °C (Temperature rise included) Storage Temperature (Component)

.....-55 °C to +155 °C Rated Current

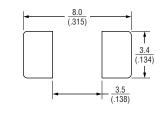
¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core	Metal alloy powder			
Wire	Enameled copper			
Terminal Finish	Sn			
Packaging 800 pcs. per 13-inch reel				

Please consult <u>Bourns[®] Model SRP-A</u> <u>Series Visual Inspection Guide</u> for detailed construction, processing and testing information.

Recommended Layout





Electrical Schematic



SRP7050AA Series - Shielded Power Inductors

L vs. I Charts

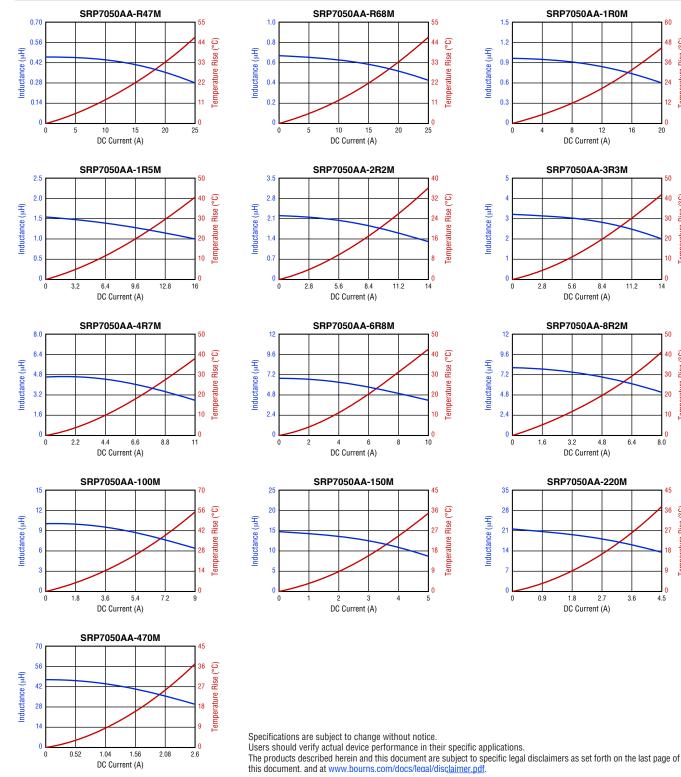
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Temperature Rise (°C)

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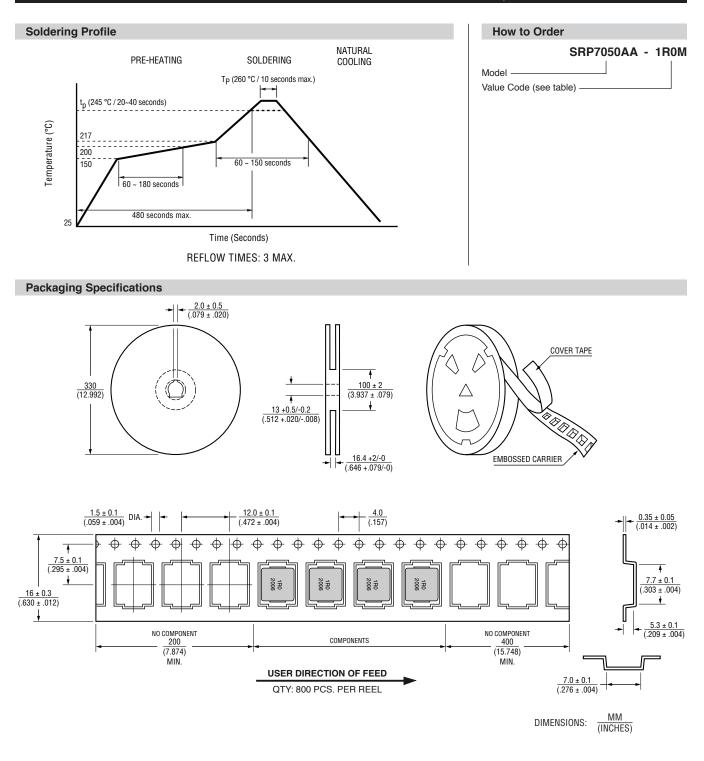
Temperature Rise (°C)



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