

Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Inductance range 0.33 to 10 µH
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

Applications

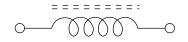
- Automotive systems:
 - Driver assistant
 - Infotainment
 - Lighting
- DC/DC converters
- Power supplies

SRP5020TA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 1 V		Q (Min.) @100 kHz	SRF (MHz)	DCR (mΩ)	DCR (mΩ)	Irms (A)	Isat (A)	Terminal
	L (μH)	Tol. (%)	/1 V	`Тур.	Тур.	Max.	Typ.	Typ.	Туре
SRP5020TA-R33M	0.33	20	10	117	6.3	7.3	12	21.3	Lead Frame
SRP5020TA-R47M	0.47	20	11	100	7.3	8.6	11.5	18	Lead Frame
SRP5020TA-R68M	0.68	20	12	90	11	12.4	10	12.8	Lead Frame
SRP5020TA-1R0M	1.00	20	13	64	17.5	20	7	13.7	Lead Frame
SRP5020TA-1R2M	1.20	20	14	58	23	28	6.2	11	Lead Frame
SRP5020TA-1R5M	1.50	20	15	52	26.5	30.5	5.5	9.8	Lead Frame
SRP5020TA-2R2M	2.20	20	16	38	42	50	4.2	9	Lead Frame
SRP5020TA-3R3M	3.30	20	17	35	66	76	3.3	7.3	Lead Frame
SRP5020TA-4R7M	4.70	20	18	30	103	116	2.8	5	Lead Frame
SRP5020TA-5R6M	5.60	20	19	25	112	122	2.5	4	Lead Frame
SRP5020TA-6R8M	6.80	20	20	23	130	150	2.4	3.8	Lead Frame
SRP5020TA-8R2M	8.20	20	21	20	148	171	2.3	3.5	Lead Frame
SRP5020TA-100M	10	20	22	18	180	199	2.3	3.4	Lead Frame

Electrical Schematic

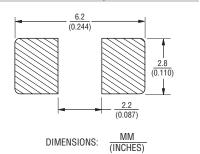


How to Order

SRP5020TA - 100M

Model — Value Code (see table)

Recommended Layout



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General Specifications

Operating Temperature

.....-40 °C to +150 °C (Temperature rise included) Storage Temperature (Component)

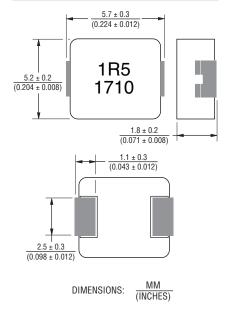
.....-40 °C to +150 °C

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

Product Dimensions



Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

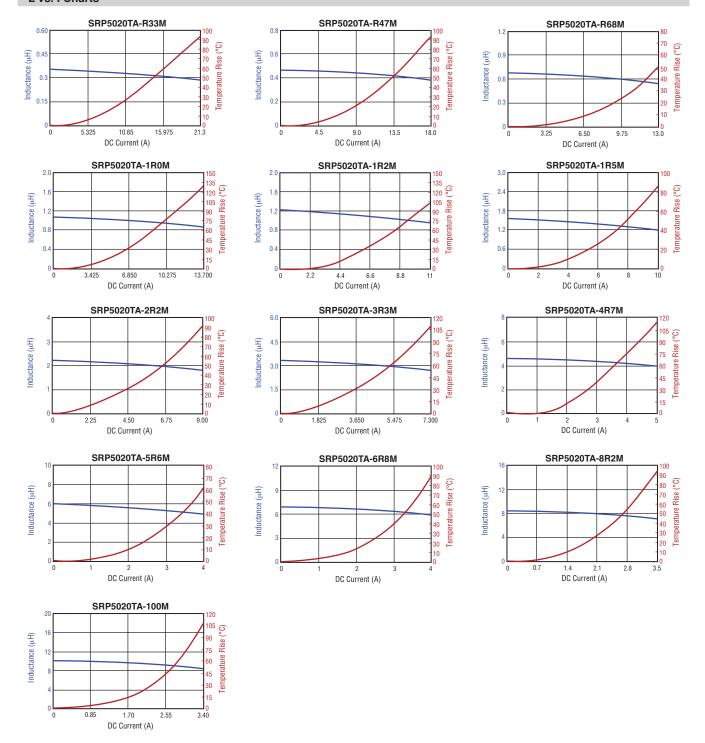
^{*} RoHS Directive 2015/863, Mar 31, 2015 and Annex.

^{**}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.

SRP5020TA Series - Shielded Power Inductors

BOURNS



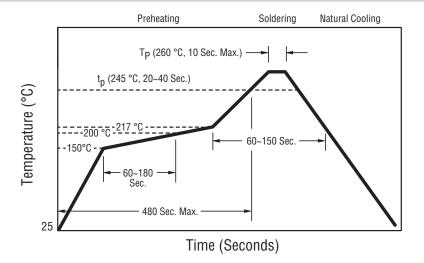


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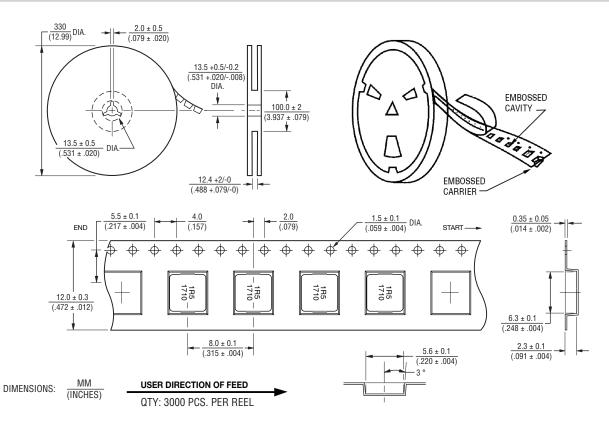
Users should verify actual device performance in their specific applications.

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Soldering Profile



Packaging Specifications



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