



Features

- Semi-shielded construction
- Inductance range: 1 to 47 μ H
- Rated current up to 4.1 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Applications

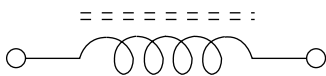
- DC/DC converters
- Power supplies

SRN5020TA Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 1 V		Q @ 100 kHz Min.	SRF (MHz) Typ.	DCR (Ω) $\pm 20\%$	I _{rms} (A) Typ.	I _{sat} (A) Typ.
	L (μ H)	Tol. %					
SRN5020TA-1R0Y	1.0	± 30	15	143	0.02	4.10	5.00
SRN5020TA-1R2Y	1.2	± 30	15	132	0.02	3.80	4.80
SRN5020TA-1R5Y	1.5	± 30	15	112	0.025	3.50	4.50
SRN5020TA-2R2M	2.2	± 20	15	86	0.032	3.30	4.10
SRN5020TA-3R3M	3.3	± 20	15	75	0.043	2.80	3.50
SRN5020TA-4R7M	4.7	± 20	15	58	0.06	2.40	2.70
SRN5020TA-5R6M	5.6	± 20	15	50	0.069	2.10	2.40
SRN5020TA-6R8M	6.8	± 20	15	46	0.09	1.90	2.10
SRN5020TA-8R2M	8.2	± 20	15	43	0.098	1.75	1.90
SRN5020TA-100M	10	± 20	15	41	0.11	1.60	1.70
SRN5020TA-120M	12	± 20	15	36	0.135	1.40	1.40
SRN5020TA-150M	15	± 20	15	32	0.165	1.25	1.30
SRN5020TA-180M	18	± 20	15	28	0.19	1.17	1.20
SRN5020TA-220M	22	± 20	15	25	0.225	1.10	1.10
SRN5020TA-330M	33	± 20	15	20	0.335	0.80	0.80
SRN5020TA-470M	47	± 20	15	16	0.46	0.70	0.70

Electrical Schematic

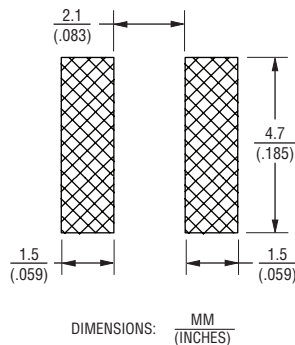


How to Order

SRN5020TA - 2R2M

Model _____
Value Code (see table) _____

Recommended Layout



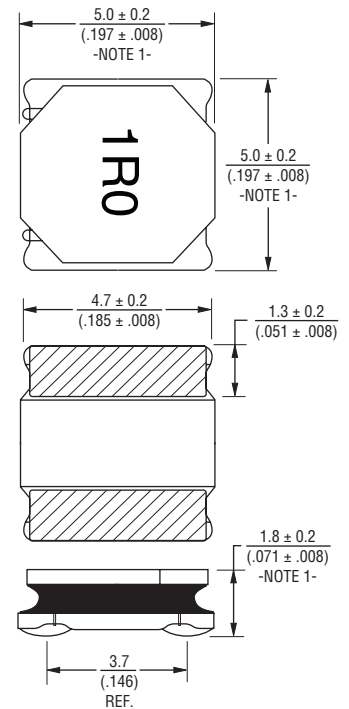
General Specifications

Operating Temperature -55 °C to +125 °C
(Temperature rise included)
Storage Temperature (Component) -55 °C to +125 °C
Temperature Rise 40 °C at rated I_{rms}
Rated Current Inductance drops 30 % at I_{sat}
Moisture Sensitivity Level 1
ESD Classification (HBM) N/A

Materials

Core Ferrite
Wire Enameled copper
Terminal Finish Sn
Coating Magnetic epoxy resin
Packaging 2500 pcs. per 13-inch reel

Product Dimensions



NOTE 1: DIMENSIONS DO NOT INCLUDE THE TERMINATION.
FOR MAXIMUM OVERALL DIMENSIONS WITH TERMINATION,
ADD 0.1 MM (.004 IN.).

DIMENSIONS: MM
(INCHES)



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

* 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.

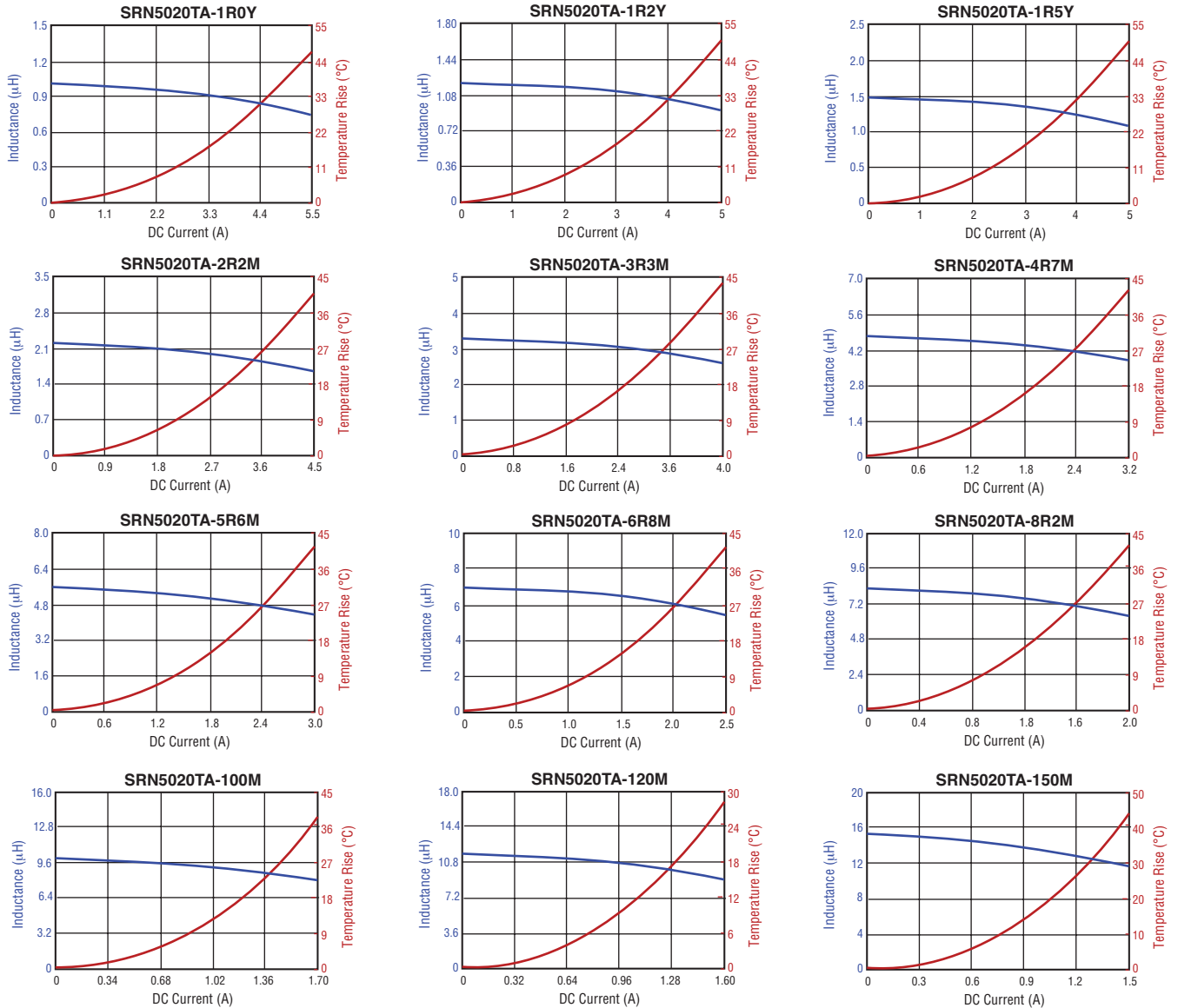
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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SRN5020TA Series - Semi-shielded Power Inductors

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Inductance vs. Current



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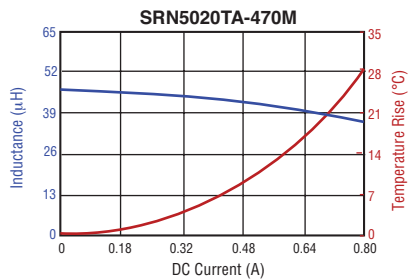
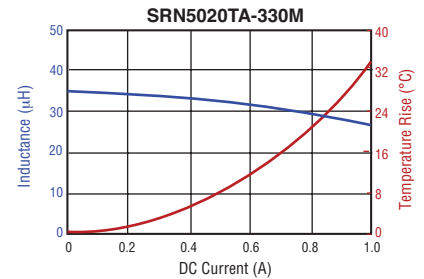
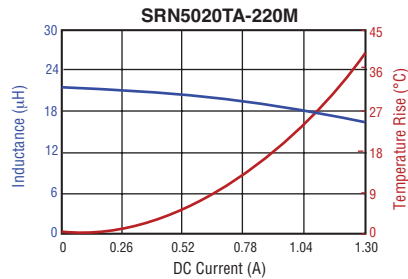
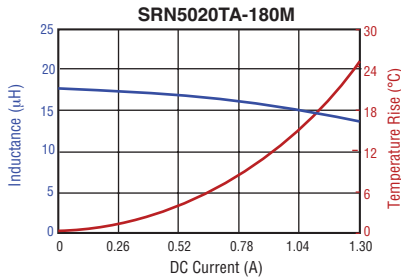
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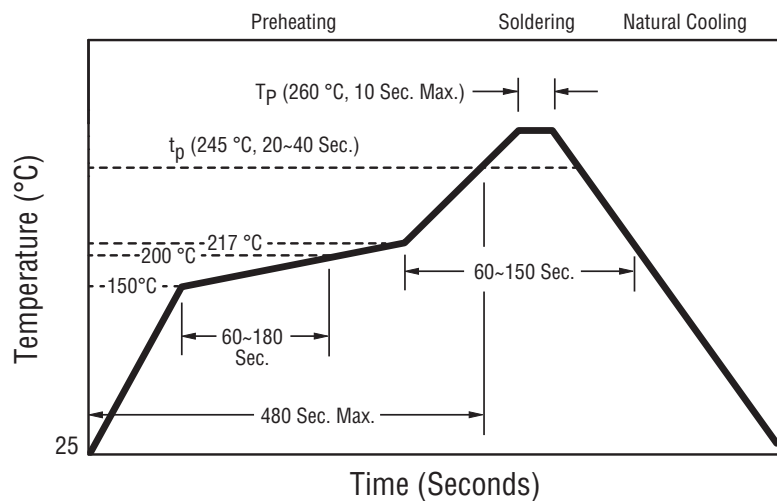
SRN5020TA Series - Semi-shielded Power Inductors

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Inductance vs. Current (Continued)



Soldering Profile



Reflow 3 times max.

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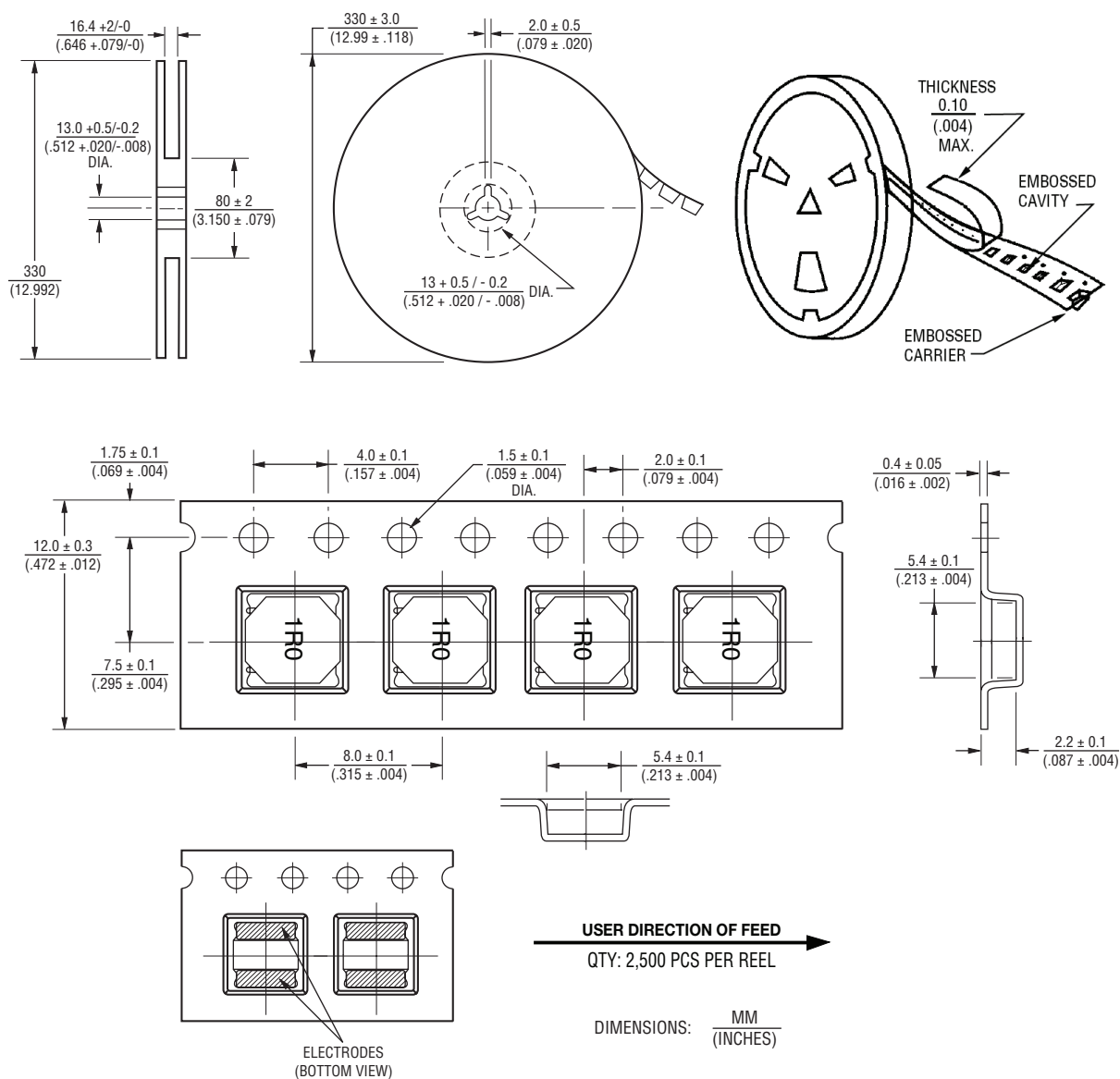
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SRN5020TA Series - Semi-shielded Power Inductors

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Packaging Specifications



09/18

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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