Features

- Semi-shielded construction
- Inductance range: 0.47 to 22 µH
- Rated current up to 3.2 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

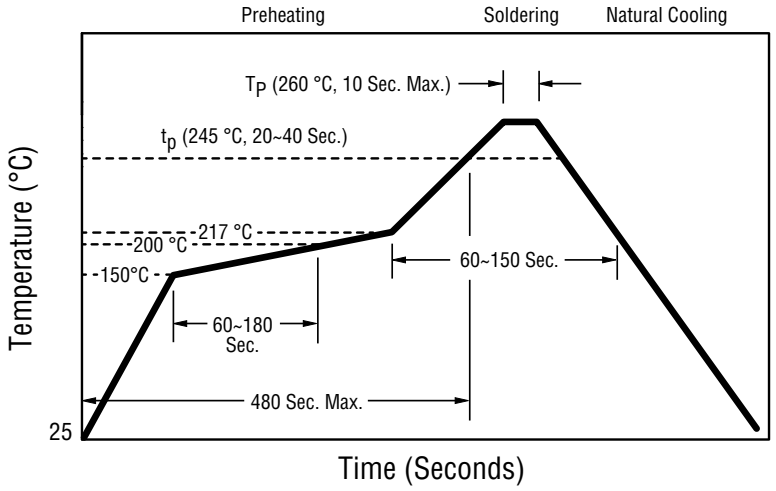
BOURNS®

SRN4012TA Series - Semi-shielded Power Inductors

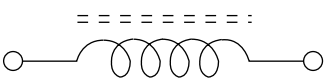
Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 1 V		Q (Min.) @ 100 kHz	SRF (MHz) Typ.	DCR (Ω) ±20 %	Irms (A)	Isat (A)
	L (µH)	Tol. %					
SRN4012TA-R47M	0.47	±20	6	140	0.025	3.2	4
SRN4012TA-1R0M	1.0	±20	6	100	0.042	2.2	2.8
SRN4012TA-1R5M	1.5	±20	6	90	0.05	2	2.2
SRN4012TA-2R2M	2.2	±20	6	70	0.06	1.9	1.65
SRN4012TA-3R3M	3.3	±20	6	60	0.07	1.7	1.4
SRN4012TA-4R7M	4.7	±20	6	45	0.095	1.5	1.2
SRN4012TA-5R6M	5.6	±20	6	40	0.12	1.4	1.1
SRN4012TA-6R8M	6.8	±20	6	35	0.125	1.3	0.9
SRN4012TA-100M	10	±20	10	30	0.18	1.1	0.8
SRN4012TA-150M	15	±20	10	24	0.26	0.75	0.65
SRN4012TA-220M	22	±20	10	18	0.4	0.62	0.5

Soldering Profile



Electrical Schematic



How to Order

SRN4012TA - 100M

Model

Value Code (see table)

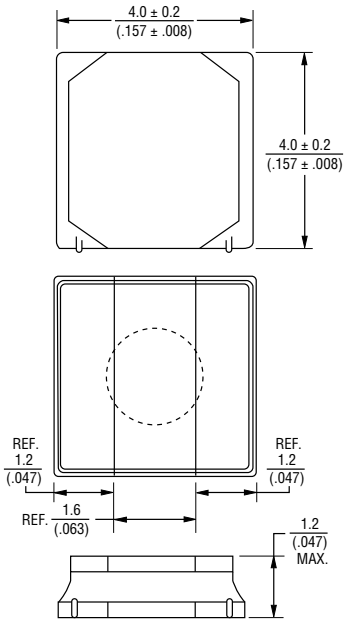
General Specifications

Operating Temperature ..... -40 °C to +125 °C (Temperature rise included)
Storage Temperature .. -40 °C to +125 °C
Temperature Rise .....40 °C at rated Irms
Rated Current ..... Inductance drops 30 % at Isat
Failure In Time (FIT).....$24.7/10^9$ hours
Mean Time Between Failures (MTBF) .....40.4×10^6 hours

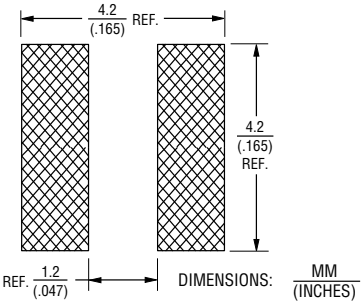
Materials

Core.....Ferrite
Wire .....Enameled copper
Terminal Finish .....Sn
Coating .....Magnetic epoxy resin
Packaging..... 4500 pcs. per 13-inch reel

Product Dimensions



Recommended Layout



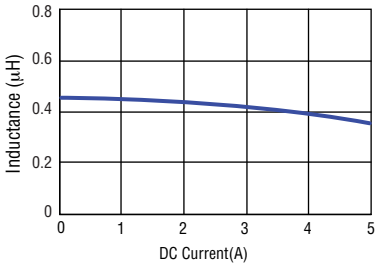
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

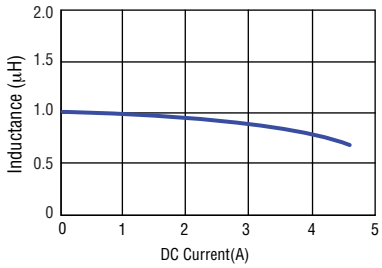
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Inductance vs. Current

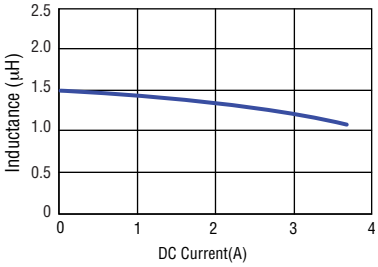
SRN4012TA-R47M



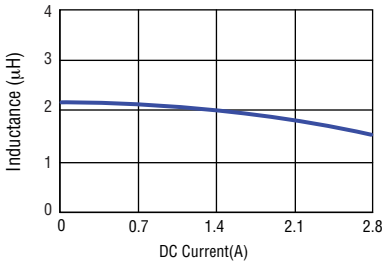
SRN4012TA-1R0M



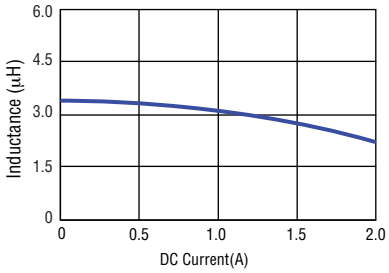
SRN4012TA-1R5M



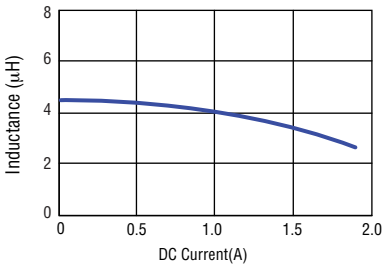
SRN4012TA-2R2M



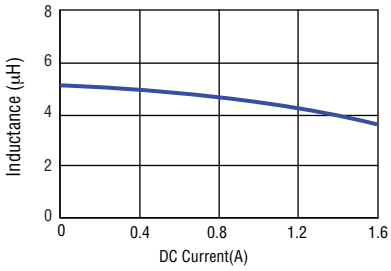
SRN4012TA-3R3M



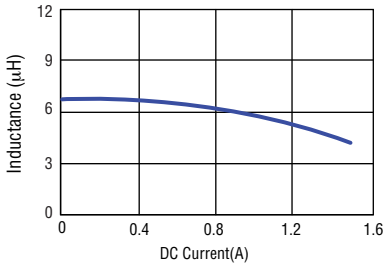
SRN4012TA-4R7M



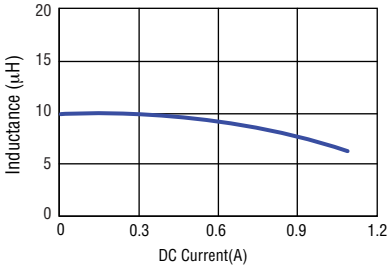
SRN4012TA-5R6M



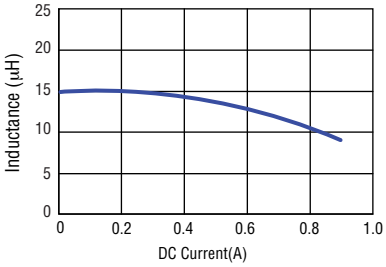
SRN4012TA-6R8M



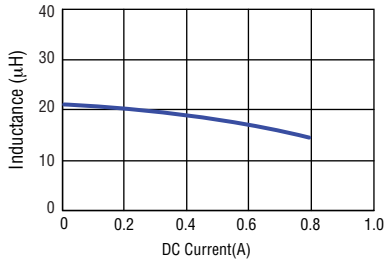
SRN4012TA-100M



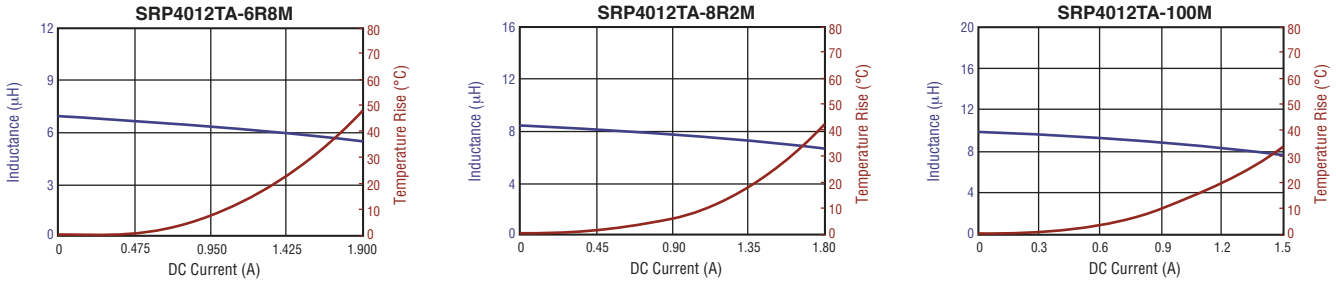
SRN4012TA-150M



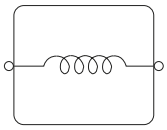
SRN4012TA-220M



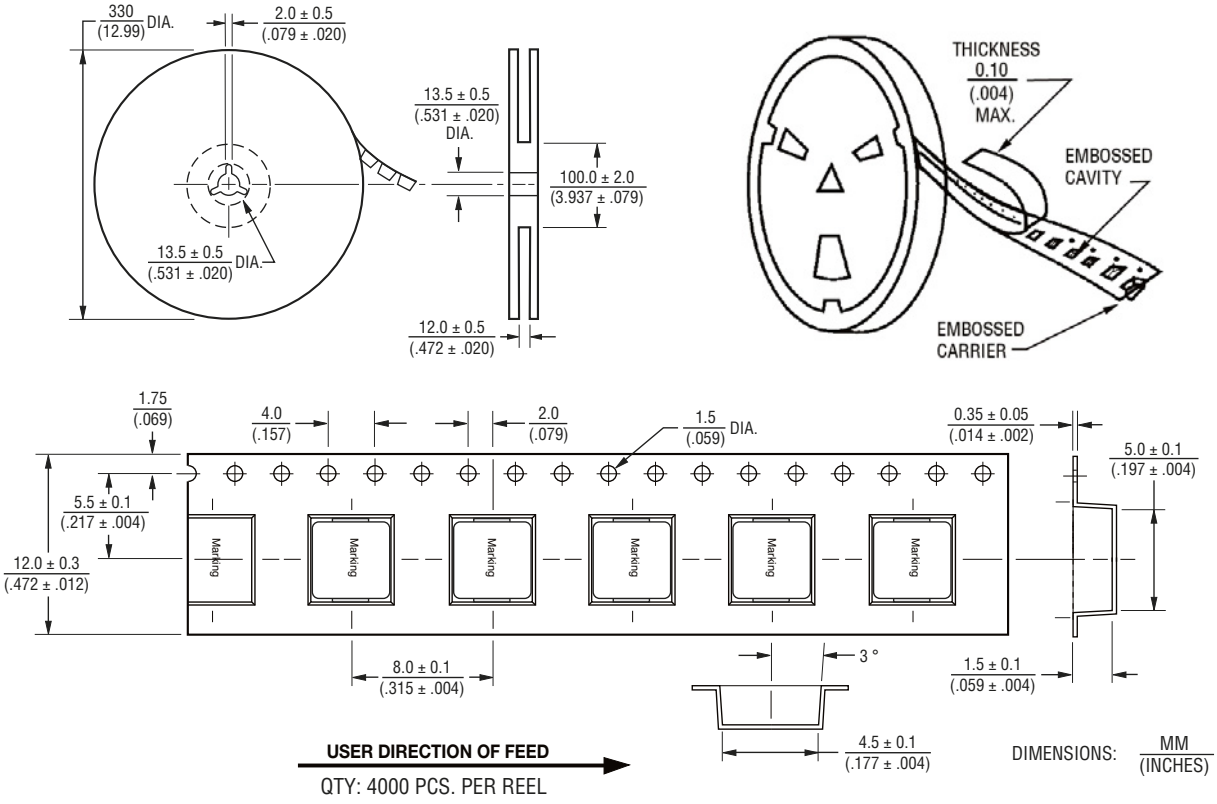
L vs. I Charts



Electrical Schematic



Packaging Specifications



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REV. 09/17

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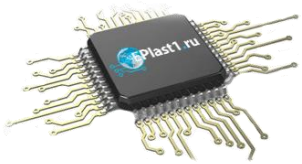
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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