



Features

- Semi-shielded construction
- Miniature size
- Low profile - 1.0 mm max.
- Inductance range: 1 to 47 μ H
- Rated current up to 2.3 A
- RoHS compliant* and halogen free**

Applications

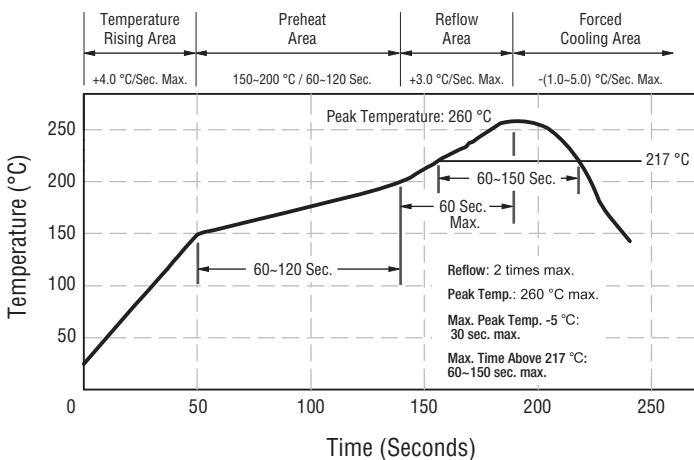
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cell phones
- Televisions, LCD displays

SRN3010 Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

| Bourns Part No. | Inductance @ 100 KHz / 1 V | | Q (Ref.) | Test Freq. (MHz) | SRF (MHz) Typ. | DCR (Ω) Max. | I _{rms} (A) | I _{sat} (A) |
|-----------------|----------------------------|--------|----------|------------------|----------------|-----------------------|----------------------|----------------------|
| | L (μ H) | Tol. % | | | | | | |
| SRN3010-1R0Y | 1.0 | 30 | 7 | 7.96 | 140 | 0.063 | 2.3 | 2.3 |
| SRN3010-1R2Y | 1.2 | 30 | 7 | 7.96 | 130 | 0.081 | 2.1 | 1.9 |
| SRN3010-1R5Y | 1.5 | 30 | 7 | 7.96 | 110 | 0.091 | 2.0 | 1.65 |
| SRN3010-2R2M | 2.2 | 20 | 7 | 7.96 | 85 | 0.096 | 1.9 | 1.3 |
| SRN3010-3R3M | 3.3 | 20 | 7 | 7.96 | 70 | 0.156 | 1.8 | 1.05 |
| SRN3010-4R7M | 4.7 | 20 | 7 | 7.96 | 60 | 0.210 | 1.7 | 0.85 |
| SRN3010-6R8M | 6.8 | 20 | 7 | 7.96 | 50 | 0.312 | 1.3 | 0.7 |
| SRN3010-100M | 10 | 20 | 11 | 2.52 | 40 | 0.420 | 0.9 | 0.6 |
| SRN3010-150M | 15 | 20 | 11 | 2.52 | 30 | 0.612 | 0.8 | 0.5 |
| SRN3010-220M | 22 | 20 | 14 | 2.52 | 23 | 0.936 | 0.7 | 0.4 |
| SRN3010-330M | 33 | 20 | 14 | 2.52 | 20 | 1.320 | 0.5 | 0.32 |
| SRN3010-470M | 47 | 20 | 20 | 2.52 | 16 | 1.920 | 0.35 | 0.28 |

Soldering Profile



General Specifications

Operating Temperature -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature (Component) -40 °C to +125 °C
 Resistance to Solder Heat +260 °C for 10 sec.
 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

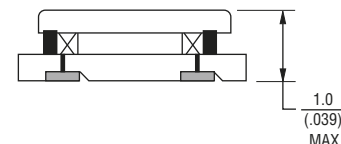
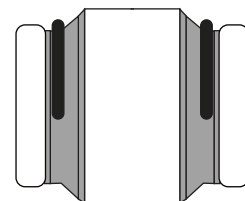
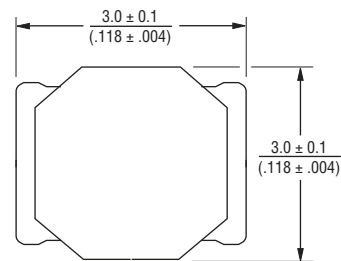
Core Ferrite
 Wire Enameled copper
 Terminal Finish Sn/Ag/Cu
 Coating Magnetic epoxy resin
 Packaging 2000 pcs. per 7-inch reel

How to Order

SRN3010 - 100M

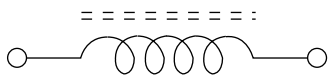
Model _____
 Value Code (see table) _____

Product Dimensions

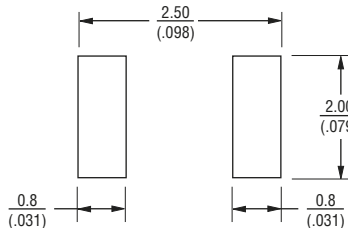


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Electrical Schematic



Recommended Layout



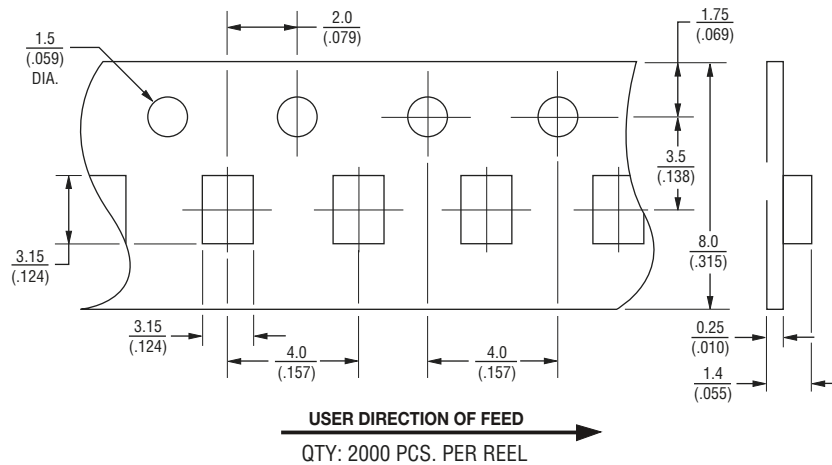
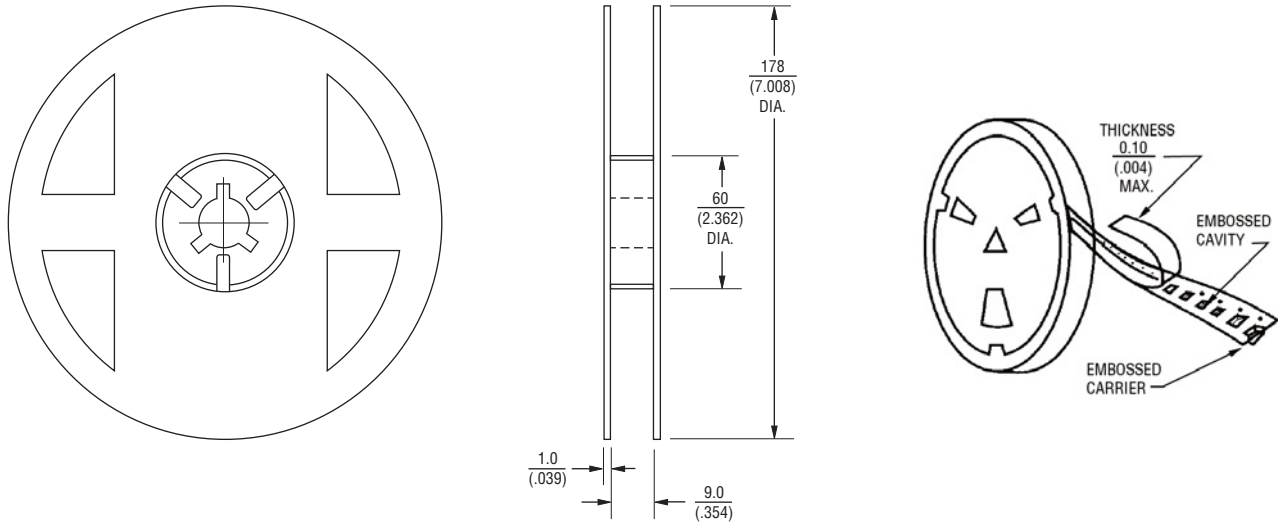
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* 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.
 Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

SRN3010 Series - Semi-shielded Power Inductors

BOURNS®

Packaging Specifications



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

REV. 09/17

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
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- Наличие сертификата ISO.

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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