BOURNS®

## Features

- Height of 2.0 mm
- Current rating up to 2.7 A
- RoHS compliant*

## Applications

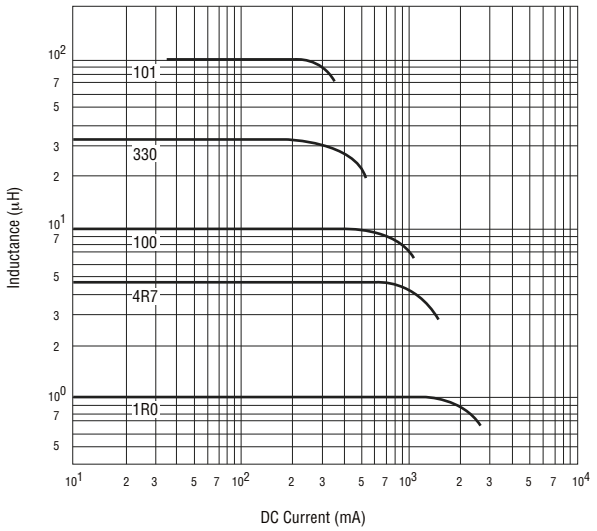
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs

# SRR4018 Series - Shielded SMD Power Inductors

### Electrical Characteristics

| Bourns Part Number | Inductance 100 kHz (µH) | Tol. % | Q Ref. | Test Frequency (MHz) | SRF Typ. (MHz) | DCR Max. (mΩ) | I rms (A) | I sat (A) |
|---|---|---|---|---|---|---|---|---|
| SRR4018-1R0Y | 1.0 | ±30 | 9 | 7.960 | 219 | 35 | 2.70 | 2.60 |
| SRR4018-1R8Y | 1.8 | ±30 | 9 | 7.960 | 105 | 58 | 2.35 | 2.20 |
| SRR4018-2R2Y | 2.2 | ±30 | 8 | 7.960 | 90 | 55 | 2.10 | 2.10 |
| SRR4018-2R7Y | 2.7 | ±30 | 8 | 7.960 | 78 | 60 | 2.03 | 1.95 |
| SRR4018-3R3Y | 3.3 | ±30 | 8 | 7.960 | 61 | 65 | 1.95 | 1.80 |
| SRR4018-3R9Y | 3.9 | ±30 | 8 | 7.960 | 60 | 75 | 1.82 | 1.65 |
| SRR4018-4R7Y | 4.7 | ±30 | 8 | 7.960 | 55 | 82 | 1.72 | 1.50 |
| SRR4018-5R6Y | 5.6 | ±30 | 7 | 7.960 | 57 | 90 | 1.64 | 1.25 |
| SRR4018-6R8Y | 6.8 | ±30 | 8 | 7.960 | 49 | 100 | 1.50 | 1.15 |
| SRR4018-8R2Y | 8.2 | ±30 | 7 | 7.960 | 40 | 135 | 1.40 | 1.10 |
| SRR4018-100Y | 10 | ±30 | 10 | 2.520 | 38 | 150 | 1.30 | 1.00 |
| SRR4018-120Y | 12 | ±30 | 9 | 2.520 | 32 | 170 | 1.15 | 0.90 |
| SRR4018-150Y | 15 | ±30 | 8 | 2.520 | 30 | 220 | 1.03 | 0.82 |
| SRR4018-180Y | 18 | ±30 | 7 | 2.520 | 30 | 280 | 0.92 | 0.75 |
| SRR4018-220Y | 22 | ±30 | 7 | 2.520 | 29 | 300 | 0.88 | 0.65 |
| SRR4018-270Y | 27 | ±30 | 7 | 2.520 | 23 | 370 | 0.77 | 0.60 |
| SRR4018-330Y | 33 | ±30 | 7 | 2.520 | 21 | 420 | 0.73 | 0.50 |
| SRR4018-390Y | 39 | ±30 | 8 | 2.520 | 19 | 540 | 0.64 | 0.48 |
| SRR4018-470Y | 47 | ±30 | 8 | 2.520 | 20 | 600 | 0.62 | 0.45 |
| SRR4018-560Y | 56 | ±30 | 8 | 2.520 | 15 | 820 | 0.52 | 0.40 |
| SRR4018-680Y | 68 | ±30 | 7 | 2.520 | 13 | 860 | 0.50 | 0.38 |
| SRR4018-820Y | 82 | ±30 | 8 | 2.520 | 13 | 1200 | 0.43 | 0.32 |
| SRR4018-101Y | 100 | ±30 | 10 | 0.796 | 12 | 1350 | 0.40 | 0.30 |
| SRR4018-121Y | 120 | ±30 | 11 | 0.796 | 10 | 1950 | 0.33 | 0.28 |
| SRR4018-151Y | 150 | ±30 | 14 | 0.796 | 10 | 2600 | 0.28 | 0.26 |
| SRR4018-181Y | 180 | ±30 | 10 | 0.796 | 10 | 4000 | 0.18 | 0.25 |

### Inductance vs. Current



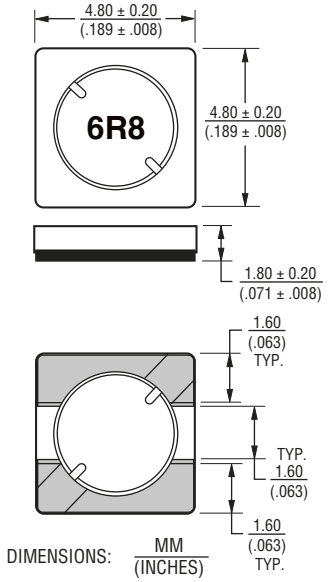

### General Specifications

Test Voltage ..... 0.1 V
Reflow Soldering ...230 °C, 50 sec. max.
Operating Temp. .....-40 °C to +125 °C
(Temperature rise included)
Storage Temperature.. -40 °C to +125 °C
Resistance to Soldering Heat
..... 260 °C for 10 sec.
Moisture Sensitivity Level.....1
ESD Classification (HBM).....N/A

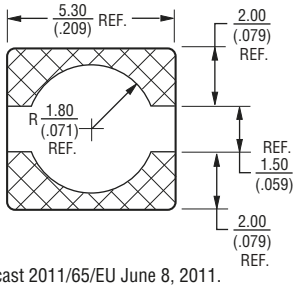
### Materials

Core ..... Ferrite
Wire ..... Enameled copper
Adhesive.....Epoxy resin
Terminal..... Ag/Ni/Sn
Rated Current
.....Ind. drop 35 % typ. at Isat
Temperature Rise..... 30 °C typ.
at rated Irms
Packaging..... 800 pcs. per 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.
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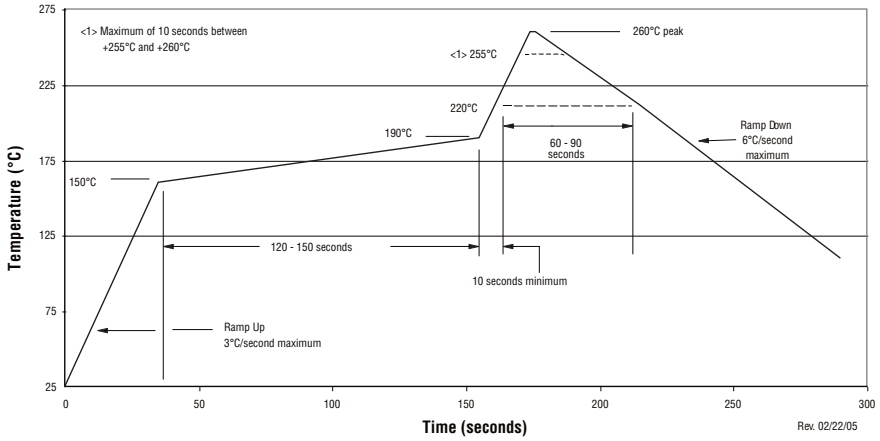
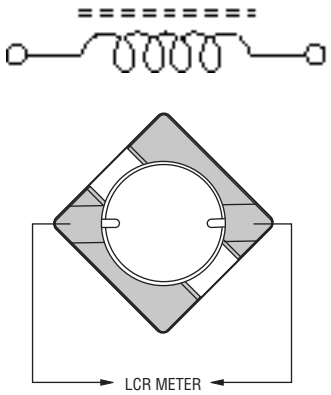
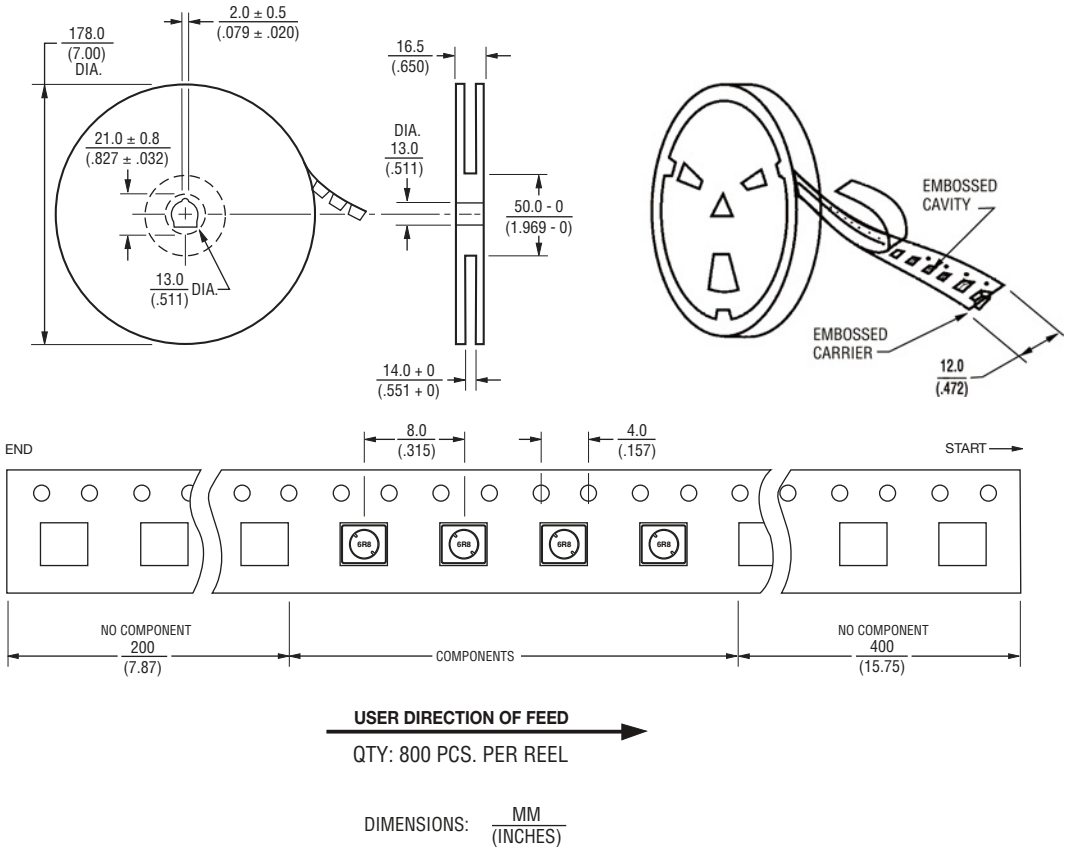
## Soldering Profile




## Electrical Schematic




## Packaging Specifications




REV. 03/18

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*Web Page: http://www.bourns.com/legal/disclaimers-terms-and-policies*

*PDF: http://www.bourns.com/docs/Legal/disclaimer.pdf*

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Наши преимущества:

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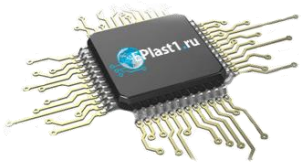
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

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