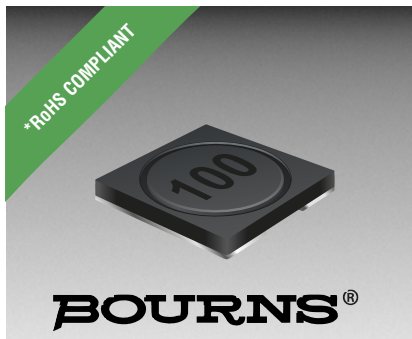




## Features

- Available in E6 values
- Mounting height of only 1.15 mm
- Inductance value to 1.5  $\mu$ H
- RoHS compliant\*

## Applications

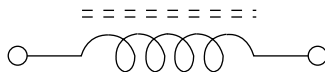
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs

# SRR3011 Series - Shielded Power Inductors

## Electrical Characteristics

| Bourns<br>Part Number | Inductance<br>100 kHz |          | Q<br>Typ. | Test<br>Frequency<br>(MHz) | SRF<br>Min.<br>(MHz) | RDC<br>Max.<br>( $\Omega$ ) | I rms<br>Max.<br>(A) | I sat<br>Typ.<br>(A) |
|-----------------------|-----------------------|----------|-----------|----------------------------|----------------------|-----------------------------|----------------------|----------------------|
|                       | ( $\mu$ H)            | Tol. %   |           |                            |                      |                             |                      |                      |
| SRR3011-1R5YL         | 1.50                  | $\pm 30$ | 11        | 7.96                       | 124                  | 0.055                       | 1.60                 | 1.30                 |
| SRR3011-2R5YL         | 2.50                  | $\pm 30$ | 7         | 7.96                       | 112                  | 0.085                       | 1.20                 | 1.00                 |
| SRR3011-3R3YL         | 3.30                  | $\pm 30$ | 8         | 7.96                       | 101                  | 0.090                       | 1.00                 | 0.85                 |
| SRR3011-4R7YL         | 4.70                  | $\pm 30$ | 9         | 7.96                       | 69                   | 0.125                       | 0.90                 | 0.75                 |
| SRR3011-6R8YL         | 6.80                  | $\pm 30$ | 10        | 7.96                       | 49                   | 0.210                       | 0.72                 | 0.62                 |
| SRR3011-100YL         | 10.0                  | $\pm 30$ | 18        | 2.52                       | 42                   | 0.280                       | 0.65                 | 0.50                 |
| SRR3011-150YL         | 15.0                  | $\pm 30$ | 16        | 2.52                       | 37                   | 0.420                       | 0.48                 | 0.38                 |
| SRR3011-220YL         | 22.0                  | $\pm 30$ | 11        | 2.52                       | 31                   | 0.680                       | 0.38                 | 0.32                 |
| SRR3011-330YL         | 33.0                  | $\pm 30$ | 14        | 2.52                       | 25                   | 0.860                       | 0.32                 | 0.27                 |
| SRR3011-470YL         | 47.0                  | $\pm 30$ | 16        | 2.52                       | 18                   | 1.800                       | 0.27                 | 0.23                 |
| SRR3011-680YL         | 68.0                  | $\pm 30$ | 14        | 2.52                       | 15                   | 2.250                       | 0.22                 | 0.18                 |
| SRR3011-101YL         | 100.0                 | $\pm 30$ | 39        | 0.796                      | 13                   | 3.600                       | 0.18                 | 0.15                 |

## Schematic



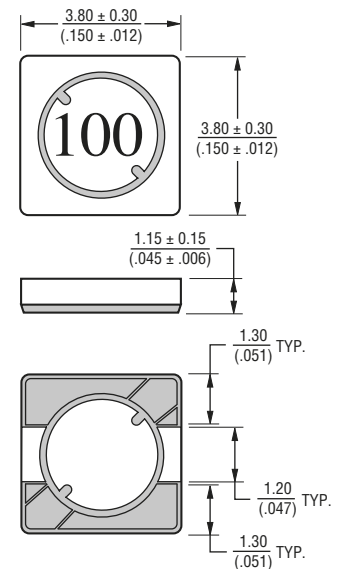
## General Specifications

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

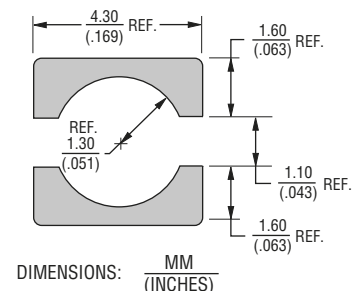
## Materials

Core .....Ferrite DR and RI  
 Wire ..... Enameled copper wire 130  
 Terminal..... Ag/Ni/Sn  
 Rated Current  
 ..... Ind. drop 35 % typ. at Isat  
 Temperature Rise.....30 °C max.  
 at rated I rms  
 Packaging..... 1200 pcs. per reel

## Product Dimensions



## Recommended Layout



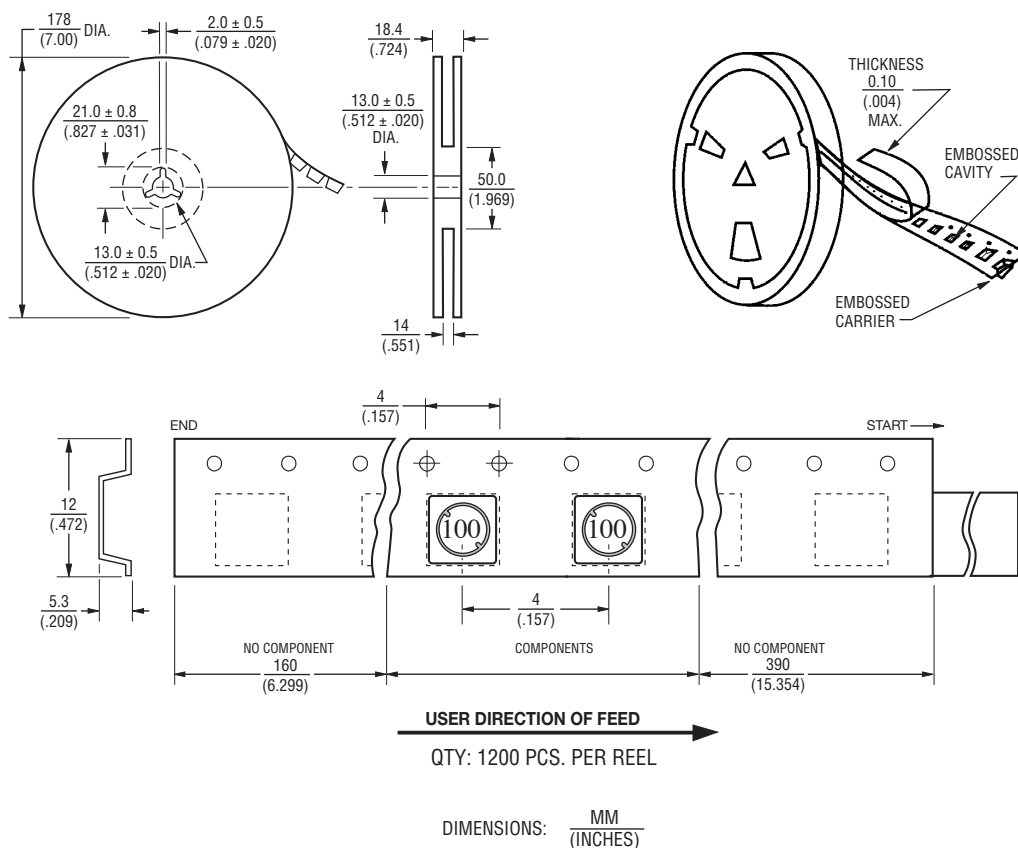
**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
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# SRR3011 Series - Shielded Power Inductors

**BOURNS®**

## Packaging Specifications



REV. 03/18

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Users should verify actual device performance in their specific applications.

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



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