



## Features

- Available in E6 values
- Mounting height of only 1.15 mm
- Inductance value to 0.47  $\mu$ H
- RoHS compliant\*

## Applications

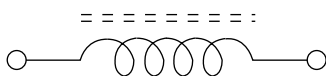
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs

## SRR4011 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. %   |           |                            |                      |                             |                      |                      |
| SRR4011-R47YL         | 0.47                  | $\pm 30$ | 7         | 25.2                       | 221                  | 0.030                       | 3.20                 | 3.80                 |
| SRR4011-1R2YL         | 1.20                  | $\pm 30$ | 10        | 7.96                       | 133                  | 0.048                       | 2.70                 | 2.50                 |
| SRR4011-1R5YL         | 1.50                  | $\pm 30$ | 11        | 7.96                       | 121                  | 0.056                       | 2.30                 | 2.10                 |
| SRR4011-2R2YL         | 2.20                  | $\pm 30$ | 11        | 7.96                       | 92                   | 0.075                       | 2.00                 | 1.80                 |
| SRR4011-3R3YL         | 3.30                  | $\pm 30$ | 10        | 7.96                       | 67                   | 0.110                       | 1.60                 | 1.40                 |
| SRR4011-4R7YL         | 4.70                  | $\pm 30$ | 13        | 7.96                       | 61                   | 0.165                       | 1.35                 | 1.20                 |
| SRR4011-6R2YL         | 6.20                  | $\pm 30$ | 7         | 7.96                       | 51                   | 0.195                       | 1.20                 | 1.00                 |
| SRR4011-8R2YL         | 8.20                  | $\pm 30$ | 8         | 7.96                       | 39                   | 0.215                       | 1.10                 | 0.92                 |
| SRR4011-100YL         | 10.00                 | $\pm 30$ | 14        | 2.52                       | 41                   | 0.240                       | 1.00                 | 0.83                 |
| SRR4011-150YL         | 15.00                 | $\pm 30$ | 11        | 2.52                       | 33                   | 0.400                       | 0.90                 | 0.70                 |
| SRR4011-220YL         | 22.00                 | $\pm 30$ | 13        | 2.52                       | 23                   | 0.580                       | 0.60                 | 0.57                 |
| SRR4011-330YL         | 33.00                 | $\pm 30$ | 15        | 2.52                       | 20                   | 0.860                       | 0.55                 | 0.47                 |
| SRR4011-470YL         | 47.00                 | $\pm 30$ | 10        | 2.52                       | 18                   | 1.250                       | 0.48                 | 0.40                 |
| SRR4011-680YL         | 68.00                 | $\pm 30$ | 12        | 2.52                       | 14                   | 1.800                       | 0.35                 | 0.32                 |
| SRR4011-820YL         | 82.00                 | $\pm 30$ | 13        | 2.52                       | 11                   | 2.200                       | 0.33                 | 0.30                 |
| SRR4011-101YL         | 100.00                | $\pm 30$ | 18        | 0.796                      | 11                   | 2.400                       | 0.31                 | 0.27                 |
| SRR4011-151YL         | 150.00                | $\pm 30$ | 39        | 0.796                      | 8                    | 3.800                       | 0.25                 | 0.22                 |

### Schematic



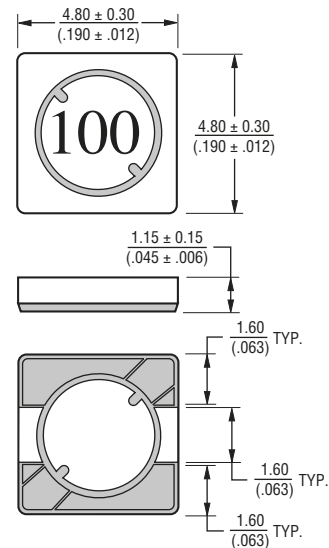
### General Specifications

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

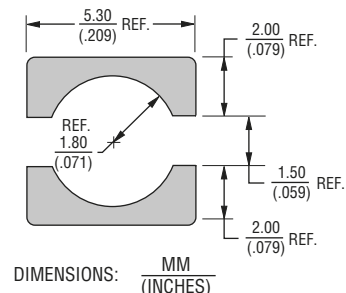
### Materials

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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Technical drawing of a 100 Euro coin showing top, side, and end views with dimensions in mm and inches.

**Top View Dimensions:**

- Outer Diameter:  $21.0 \pm 0.8$  mm ( $.827 \pm .031$ )
- Inner Diameter:  $13.0 \pm 0.5$  mm ( $.512 \pm .020$ )
- Distance from edge to center:  $178$  mm ( $7.00$ )
- Distance from center to edge:  $2.0 \pm 0.5$  mm ( $.079 \pm .020$ )

**Side View Dimensions:**

- Thickness:  $0.10$  mm ( $.004$ ) MAX.
- Embossed Cavity:  $50.0$  mm ( $1.969$ )
- Embossed Carrier:  $14$  mm ( $.551$ )

**End View Dimensions:**

- Distance from edge to center:  $4$  mm ( $.157$ )
- Distance from center to edge:  $12$  mm ( $.472$ )
- Distance from edge to center:  $5.3$  mm ( $.209$ )

**End View Details:**

- END
- START
- NO COMPONENT 160 (6.299)
- COMPONENTS 4 (.157)
- NO COMPONENT 390 (15.354)
- USER DIRECTION OF FEED
- QTY: 1200 PCS. PER REEL
- DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

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