

## Features

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

## Applications

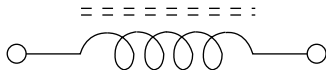
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs

# SRR3011 Series - Shielded Power Inductors

## Electrical Characteristics

Bourns Part Number	Inductance 100 kHz		Q Typ.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. ( $\Omega$ )	I rms Max. (A)	I sat Typ. (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



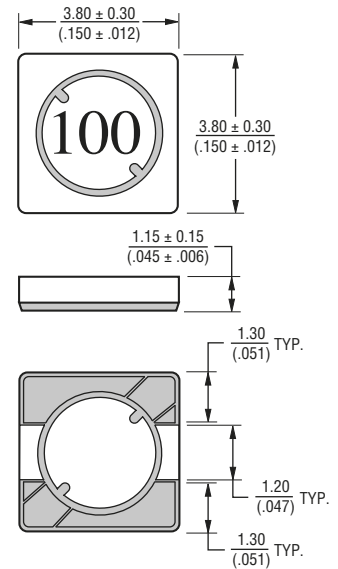
## General Specifications

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

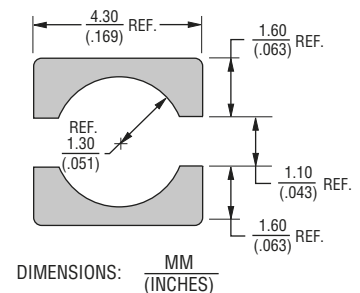
## Materials

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

## Product Dimensions



## Recommended Layout



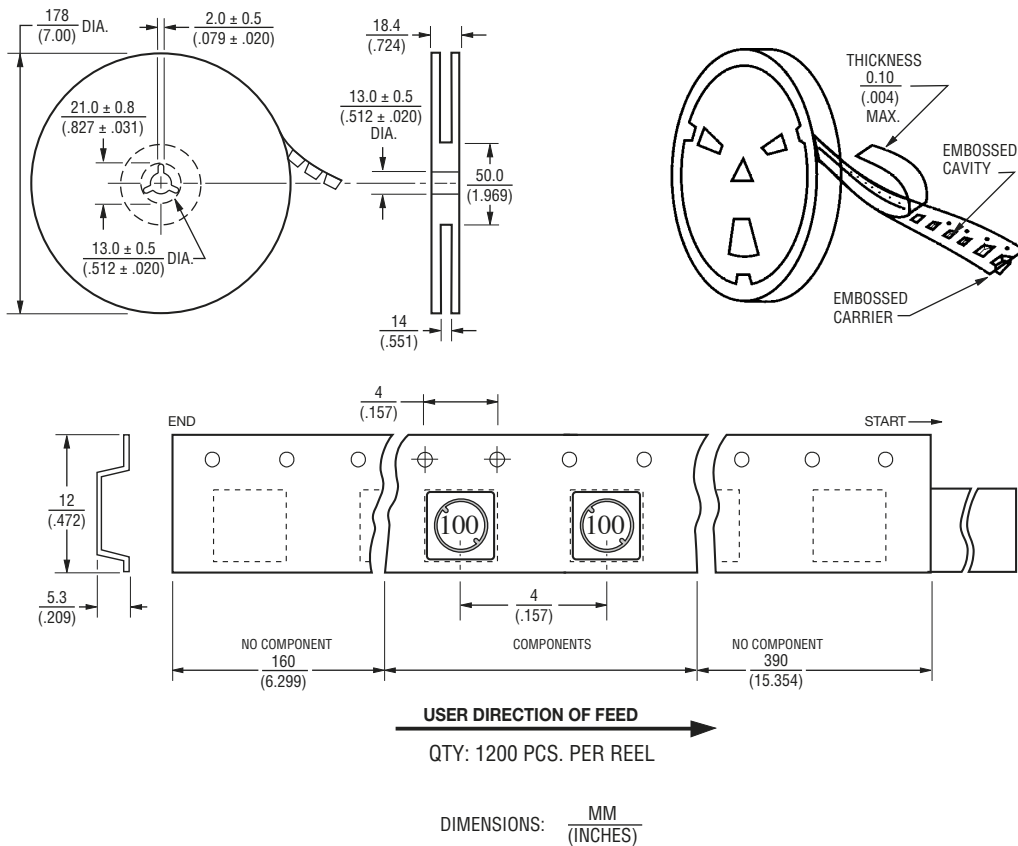
**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\* 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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