



## Features

- Available in E6 values
- Inductance values to 1000  $\mu$ H
- RoHS compliant\*

## Applications

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

# SRR7032 Series - Shielded SMD Power Inductors

## Electrical Specifications

| Bourns Part No. | Inductance 1 KHz |          | Q<br>Typ. | Test<br>Frequency<br>(MHz) | SRF<br>Typ.<br>(MHz) | RDC<br>Max.<br>( $\Omega$ ) | I rms<br>Max.<br>(A) | I sat<br>Typ.<br>(A) |
|-----------------|------------------|----------|-----------|----------------------------|----------------------|-----------------------------|----------------------|----------------------|
|                 | $\mu$ H          | Tol. %   |           |                            |                      |                             |                      |                      |
| SRR7032-2R2M    | 2.2              | $\pm 20$ | 12        | 7.96                       | 70                   | 0.022                       | 2.65                 | 2.60                 |
| SRR7032-3R3M    | 3.3              | $\pm 20$ | 16        | 7.96                       | 55                   | 0.027                       | 2.40                 | 2.20                 |
| SRR7032-4R7M    | 4.7              | $\pm 20$ | 16        | 7.96                       | 43                   | 0.042                       | 2.00                 | 2.00                 |
| SRR7032-6R8M    | 6.8              | $\pm 20$ | 17        | 7.96                       | 37                   | 0.054                       | 1.60                 | 1.80                 |
| SRR7032-100M    | 10.0             | $\pm 20$ | 25        | 2.52                       | 35                   | 0.068                       | 1.40                 | 1.60                 |
| SRR7032-150M    | 15.0             | $\pm 20$ | 22        | 2.52                       | 32                   | 0.095                       | 1.10                 | 1.20                 |
| SRR7032-220M    | 22.0             | $\pm 20$ | 20        | 2.52                       | 29                   | 0.135                       | 0.96                 | 1.05                 |
| SRR7032-330M    | 33.0             | $\pm 20$ | 23        | 2.52                       | 20                   | 0.200                       | 0.76                 | 0.86                 |
| SRR7032-470M    | 47.0             | $\pm 20$ | 26        | 2.52                       | 18                   | 0.280                       | 0.67                 | 0.77                 |
| SRR7032-680M    | 68.0             | $\pm 20$ | 22        | 2.52                       | 16                   | 0.380                       | 0.60                 | 0.70                 |
| SRR7032-101M    | 100.0            | $\pm 20$ | 28        | 0.796                      | 12                   | 0.540                       | 0.45                 | 0.50                 |
| SRR7032-151M    | 150.0            | $\pm 20$ | 35        | 0.796                      | 10                   | 0.800                       | 0.37                 | 0.38                 |
| SRR7032-221M    | 220.0            | $\pm 20$ | 47        | 0.796                      | 7.5                  | 1.300                       | 0.30                 | 0.32                 |
| SRR7032-331M    | 330.0            | $\pm 20$ | 46        | 0.796                      | 6.1                  | 1.900                       | 0.22                 | 0.24                 |
| SRR7032-471M    | 470.0            | $\pm 20$ | 34        | 0.796                      | 5.1                  | 2.400                       | 0.20                 | 0.20                 |
| SRR7032-681M    | 680.0            | $\pm 20$ | 58        | 0.796                      | 3.8                  | 3.750                       | 0.16                 | 0.15                 |
| SRR7032-102M    | 1000.0           | $\pm 20$ | 120       | 0.252                      | 3.1                  | 5.400                       | 0.15                 | 0.14                 |

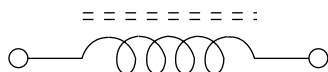
## General Specifications

Test Voltage ..... 0.5 V  
 Reflow Soldering .. 230  $^{\circ}$ C, 50 sec. max.  
 Operating Temperature  
 ..... -40  $^{\circ}$ C to +125  $^{\circ}$ C  
 (Temperature rise included)  
 Storage Temperature  
 ..... -40  $^{\circ}$ C to +125  $^{\circ}$ C  
 Resistance to Soldering Heat  
 ..... 260  $^{\circ}$ C for 10 sec.  
 Moisture Sensitivity Level ..... 1  
 ESD Classification (HBM) ..... N/A

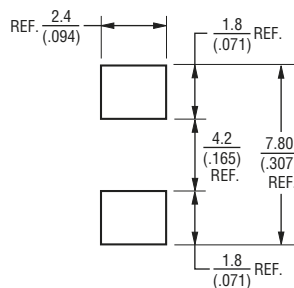
## Materials

Core ..... Ferrite DR & RI  
 Wire ..... Enameled copper wire 130  
 Terminal ..... Cu/Ni/Sn  
 Rated Current  
 ..... Ind. drop of 10 % typ. at Isat  
 Temperature Rise  
 ..... 30  $^{\circ}$ C max. at rated I rms  
 Packaging ..... 1500 pcs. per reel

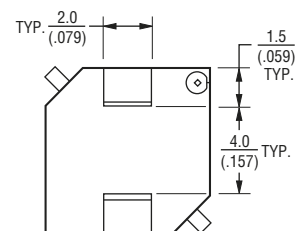
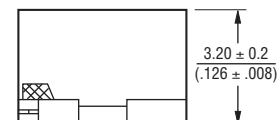
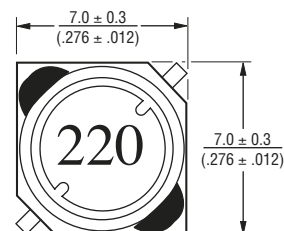
## Schematic



## Recommended Layout



## Product Dimensions



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



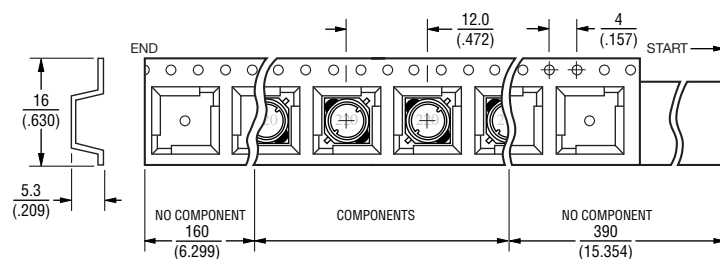
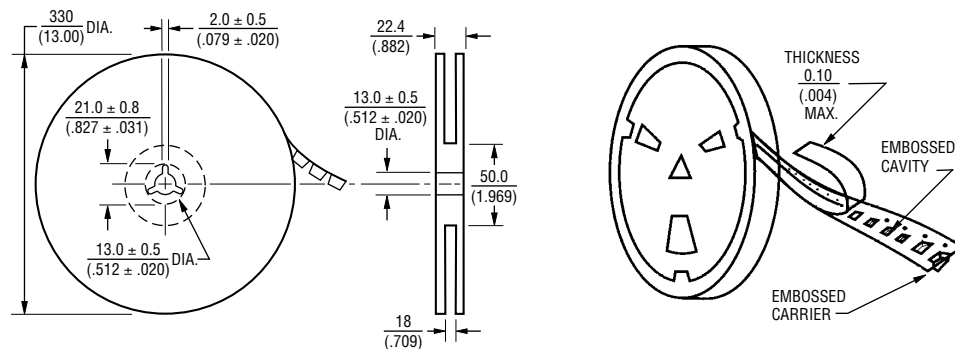
**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
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# SRR7032 Series - Shielded SMD Power Inductors

**BOURNS®**

## Packaging Specifications



USER DIRECTION OF FEED

QTY: 1500 PCS. PER REEL

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

REV. 03/18

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Оценку стоимости проекта по компонентам.
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