



## Features

- Maximum height of 6.7 mm
- Current up to 8 A
- RoHS compliant\*

## Applications

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

## SRU1063 Series - Shielded SMD Power Inductors

### Electrical Specifications

| Bourns<br>Part Number | Inductance<br>@ 100 KHz |             | Q<br>Ref. | Test<br>Freq.<br>(MHz) | SRF<br>Typ.<br>(MHz) | RDC<br>Max.<br>(mΩ) | I rms<br>Max.<br>(A) | I sat<br>Typ.<br>(A) | **K-<br>Factor |
|-----------------------|-------------------------|-------------|-----------|------------------------|----------------------|---------------------|----------------------|----------------------|----------------|
|                       | L (μH)                  | Tol.<br>(%) |           |                        |                      |                     |                      |                      |                |
| SRU1063-1R6Y          | 1.6                     | ±30         | 13        | 7.96                   | 65                   | 9                   | 8.00                 | 10.00                | 133            |
| SRU1063-2R2Y          | 2.2                     | ±30         | 10        | 7.96                   | 65                   | 11                  | 7.50                 | 8.50                 | 95             |
| SRU1063-4R7Y          | 4.7                     | ±30         | 11        | 7.96                   | 30                   | 14                  | 5.50                 | 5.70                 | 68             |
| SRU1063-100Y          | 10                      | ±30         | 14        | 2.52                   | 18                   | 38                  | 3.80                 | 4.00                 | 49             |
| SRU1063-150Y          | 15                      | ±30         | 12        | 2.52                   | 14                   | 42                  | 3.20                 | 3.40                 | 41             |
| SRU1063-220Y          | 22                      | ±30         | 15        | 2.52                   | 10                   | 60                  | 3.00                 | 3.20                 | 33             |
| SRU1063-330Y          | 33                      | ±30         | 12        | 2.52                   | 8                    | 105                 | 2.20                 | 2.40                 | 26             |
| SRU1063-470Y          | 47                      | ±30         | 10        | 2.52                   | 6                    | 150                 | 1.40                 | 1.60                 | 22             |
| SRU1063-680Y          | 68                      | ±30         | 8         | 2.52                   | 5                    | 210                 | 1.20                 | 1.35                 | 20             |
| SRU1063-101Y          | 100                     | ±30         | 12        | 2.52                   | 4                    | 320                 | 1.10                 | 1.20                 | 15             |

\*\*K-Factor: To calculate core flux density,  $B_p$  (gauss) =  $K \times L(\mu H) \times \Delta I$  (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

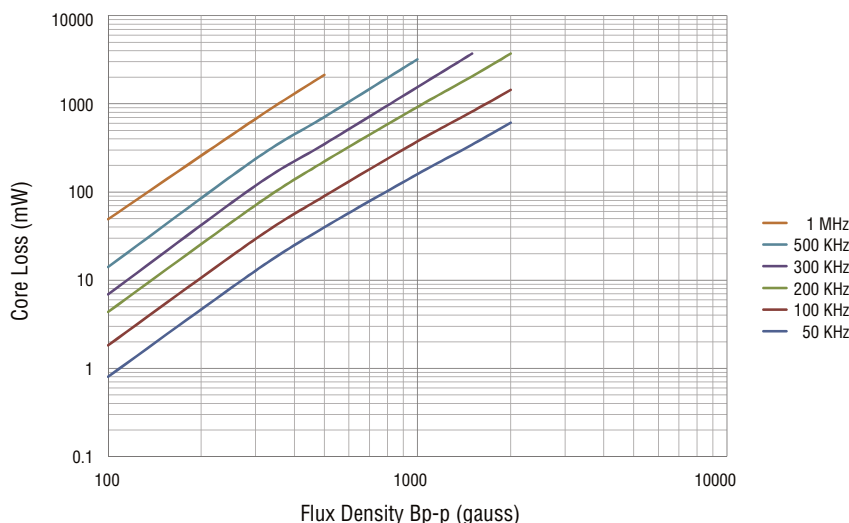
### General Specifications

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

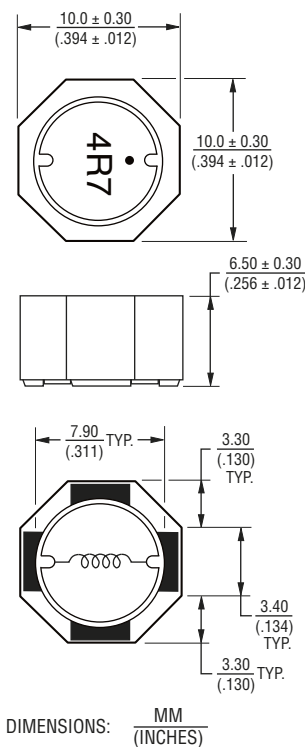
### Materials

Core.....Ferrite DR and RI core  
 Wire.....Enamelled copper  
 Terminal.....Ag/Ni/Sn  
 Rated Current ...Ind. drop 35 % typ. at Isat  
 Temp. Rise .....40 °C max. at rated I rms  
 Packaging .....500 pcs. per reel

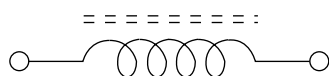
### Core Loss vs. Flux Density



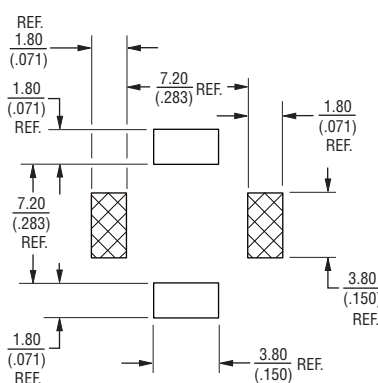
### Product Dimensions



### Electrical Schematic



### Recommended Layout



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

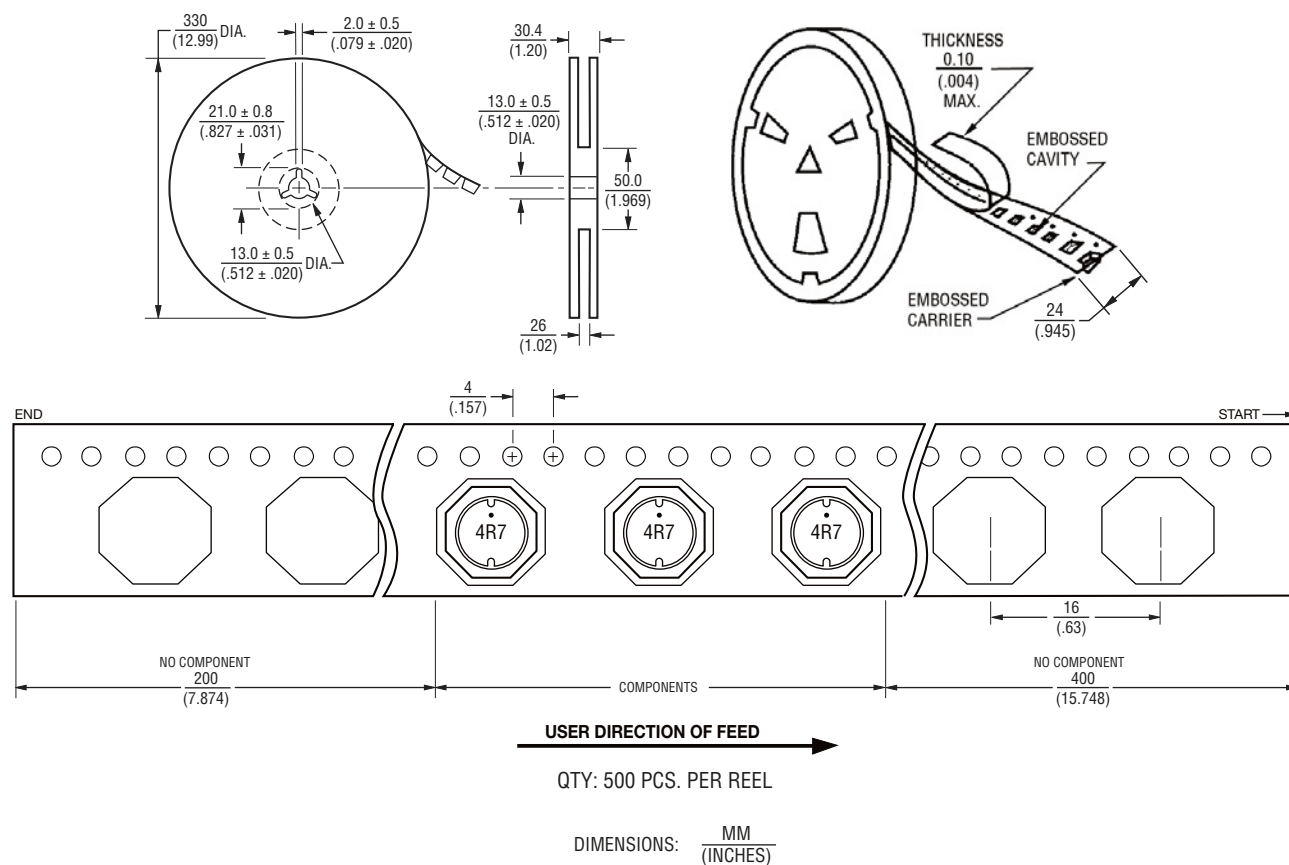
\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

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# SRU1063 Series - Shielded SMD Power Inductors

**BOURNS®**

## Packaging Specifications



REV. 03/18

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)