



## 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
  - Car radios

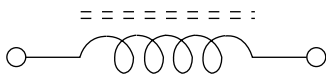
## SRU1063 Series - Shielded SMD Power Inductors

### Electrical Specifications

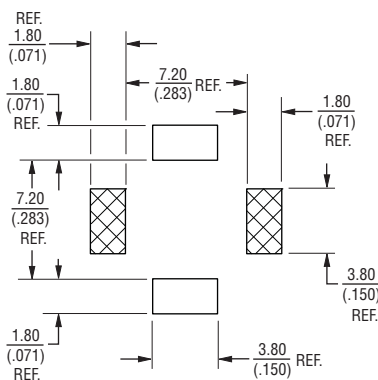
| Bourns<br>Part Number | Inductance<br>@ 100 KHz |             | Q<br>Ref. | Test<br>Freq.<br>(MHz) | SRF<br>Typ.<br>(MHz) | RDC<br>Max.<br>(mΩ) | I rms<br>Max.<br>(A) | I sat<br>Typ.<br>(A) | **K-<br>Factor |
|-----------------------|-------------------------|-------------|-----------|------------------------|----------------------|---------------------|----------------------|----------------------|----------------|
|                       | 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,  $B_p$ -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.

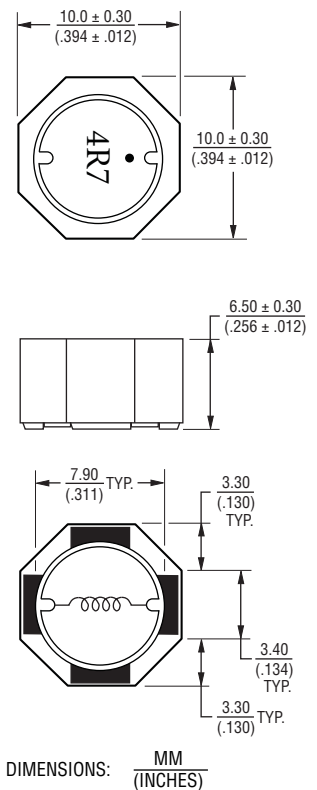
### Electrical Schematic



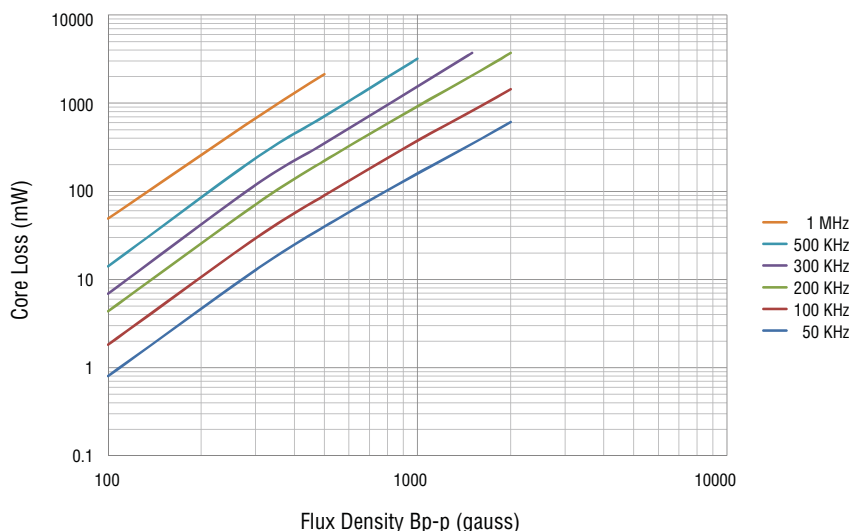
### Recommended Layout



### Product Dimensions



### Core Loss vs. Flux Density

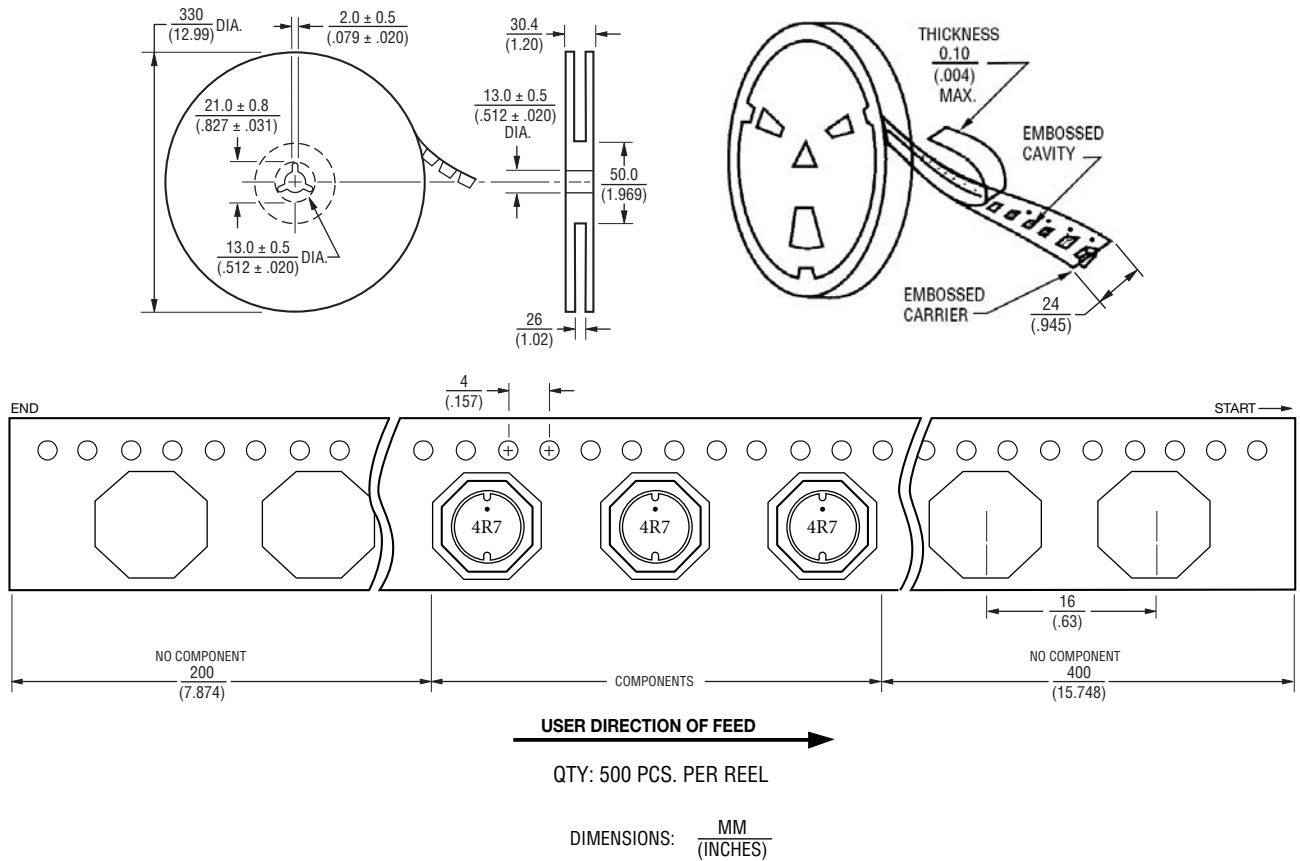


\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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**BOURNS®**

## Packaging Specifications



REV. 11/13

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# Mouser Electronics

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[SRU1063-680Y](#) [SRU1063-2R2Y](#) [SRU1063-1R6Y](#) [SRU1063-2R2YA](#)