



## Features

- Maximum height of 1.8 mm
- Current up to 2.2 A
- RoHS compliant\*

## Additional Information

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SAMPLES



CONTACT

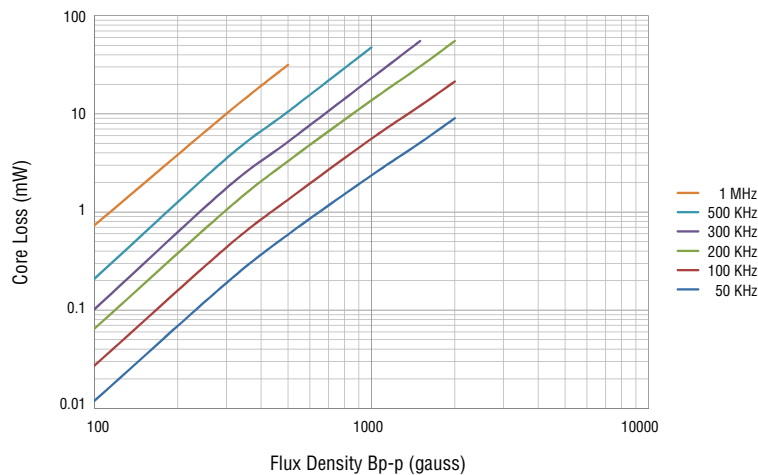
## SRU2016 Series - Shielded SMD Power Inductors

### Electrical Specifications

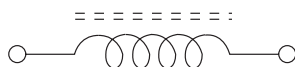
| Bourns<br>Part No. | Inductance<br>100 KHz |           | Q<br>Ref. | Test<br>Freq.<br>(MHz) | SRF<br>Typ.<br>(MHz) | RDC<br>Max.<br>(mΩ) | I <sub>rms</sub><br>Max.<br>(A) | Isat<br>Typ.<br>(A) | Marking | **K-<br>Factor |
|--------------------|-----------------------|-----------|-----------|------------------------|----------------------|---------------------|---------------------------------|---------------------|---------|----------------|
|                    | (μH)                  | Tol.<br>% |           |                        |                      |                     |                                 |                     |         |                |
| SRU2016-1R0Y       | 1.0                   | ±30       | 8         | 7.96                   | 250                  | 60                  | 2.20                            | 1.60                | A       | 2170           |
| SRU2016-2R2Y       | 2.2                   | ±30       | 8         | 7.96                   | 120                  | 105                 | 1.60                            | 1.00                | C       | 1485           |
| SRU2016-3R0Y       | 3.0                   | ±30       | 8         | 7.96                   | 90                   | 135                 | 1.50                            | 0.87                | E       | 1227           |
| SRU2016-4R7Y       | 4.7                   | ±30       | 8         | 7.96                   | 80                   | 215                 | 1.15                            | 0.74                | F       | 973            |
| SRU2016-6R0Y       | 6.0                   | ±30       | 9         | 7.96                   | 70                   | 250                 | 0.90                            | 0.63                | G       | 855            |
| SRU2016-100Y       | 10                    | ±30       | 9         | 2.52                   | 45                   | 430                 | 0.87                            | 0.52                | H       | 627            |
| SRU2016-150Y       | 15                    | ±30       | 10        | 2.52                   | 40                   | 650                 | 0.60                            | 0.40                | I       | 514            |
| SRU2016-220Y       | 22                    | ±30       | 12        | 2.52                   | 30                   | 990                 | 0.43                            | 0.37                | J       | 448            |
| SRU2016-330Y       | 33                    | ±30       | 12        | 2.52                   | 20                   | 1470                | 0.41                            | 0.29                | K       | 376            |
| SRU2016-470Y       | 47                    | ±30       | 15        | 2.52                   | 20                   | 1650                | 0.31                            | 0.22                | L       | 303            |

\*\*K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μH) x ΔI (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

### Core Loss vs. Flux Density



### Electrical Schematic

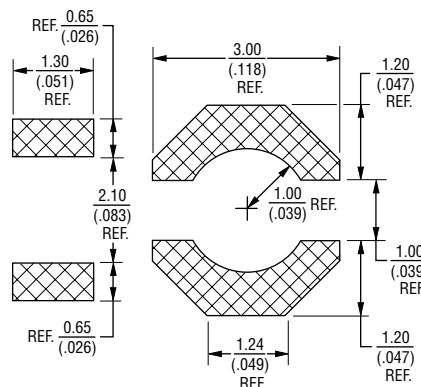


**CALIFORNIA WARNING:** Can expose you to lead, a carcinogen and reproductive toxicant. See [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

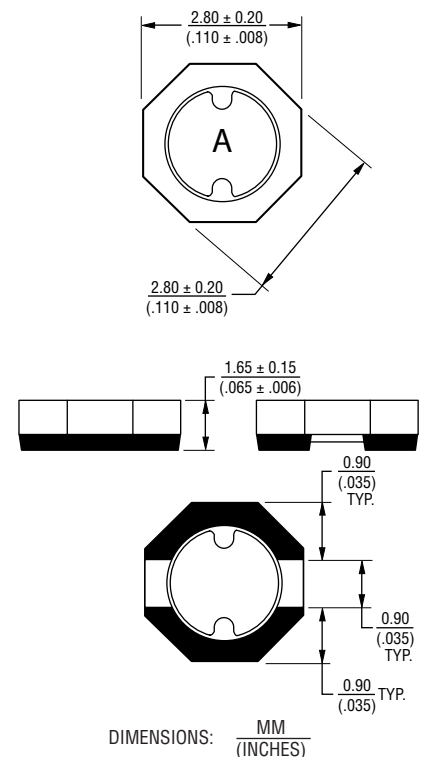
\*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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### Recommended Layout



### Product Dimensions



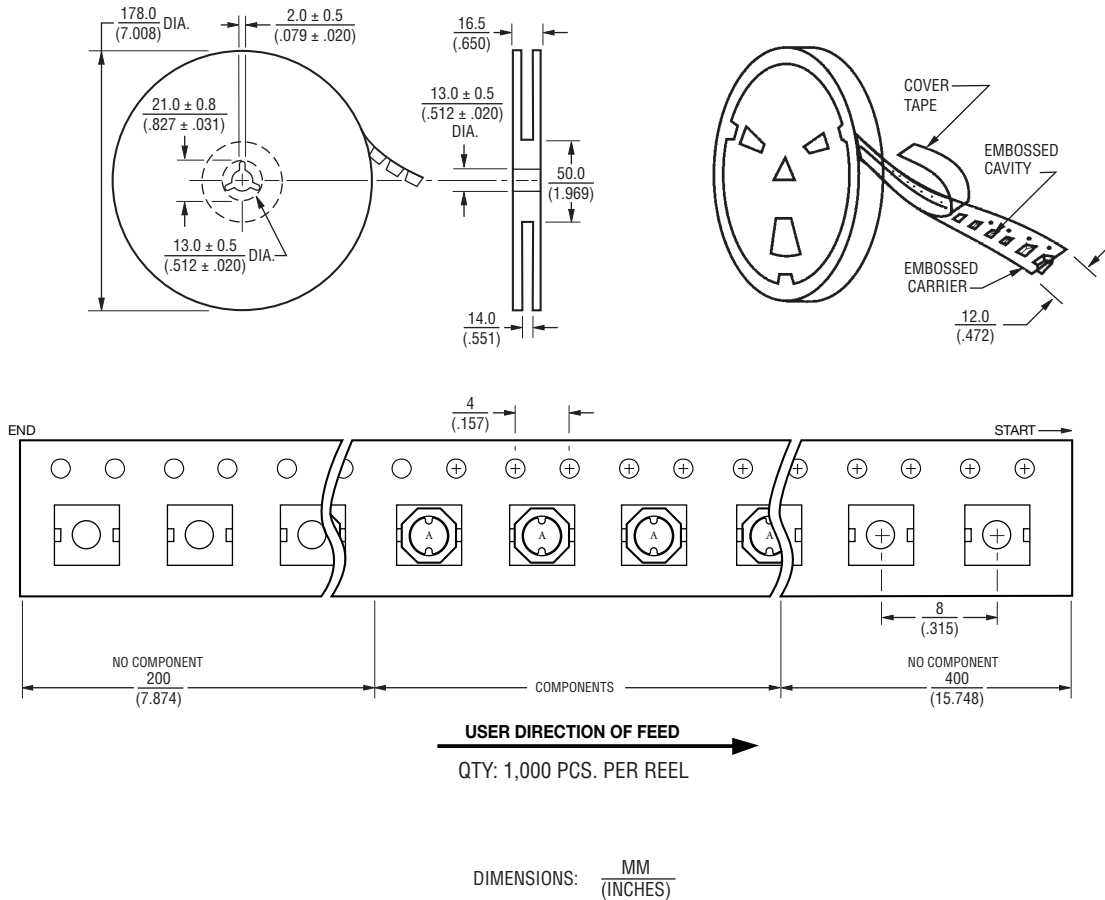
## Applications

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

## SRU2016 Series - Shielded SMD Power Inductors

**BOURNS®**

### Packaging Specifications



REV. 09/25

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