

#### **Features**

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

## **Applications**

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

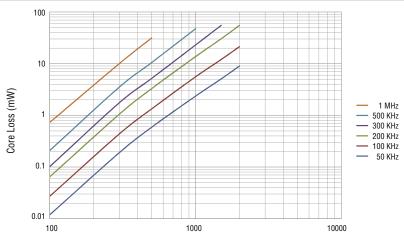
# **SRU2016 Series - Shielded SMD Power Inductors**

#### **Electrical Specifications**

	Inductance 100 KHz			Test	SRF	RDC	Irms	Isat		
Bourns Part No.	(μH)	Tol. %	Q Ref.	Freq. (MHz)	Typ. (MHz)	Max. (mΩ)	Max. (A)	Typ. (A)	Marking	**K- Factor
SRU2016-1R0Y	1.0	±30	8	7.96	250	60	2.20	1.60	Α	2170
SRU2016-2R2Y	2.2	±30	8	7.96	120	105	1.60	1.00	С	1485
SRU2016-3R0Y	3.0	±30	8	7.96	90	135	1.50	0.87	Е	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	Н	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
SRU2016-680Y	68	±30	18	2.52	15	3510	0.22	0.17	М	233
SRU2016-101Y	100	±30	8	2.52	10	4900	0.19	0.15	N	209

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

#### Core Loss vs. Flux Density



Flux Density Bp-p (gauss)

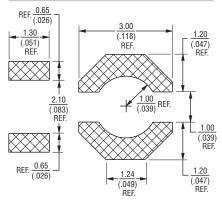
#### **Electrical Schematic**



\* 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. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at <a href="https://www.bourns.com/docs/legal/disclaimer.pdf">www.bourns.com/docs/legal/disclaimer.pdf</a>

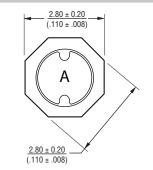
### **Recommended Layout**



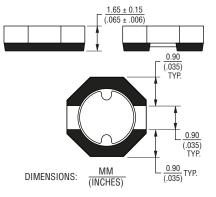
#### **General Specifications Operating Temperature** .....-40 °C to +125 °C (Temperature rise included) Storage Temperature .....-40 °C to +125 °C Resistance to Soldering Heat ......260 °C for 10 sec. Moisture Sensitivity Level ......1 ESD Classification (HBM).....N/A **Materials** Core.....Ferrite DR and RI core Wire .....Enameled copper Terminal ......Ag/Ni/Sn Rated Current .....Ind. drop 35 % typ. at Isat

#### **Product Dimensions**

Temperature Rise



......40 °C max. at rated Irms Packaging......1,000 pcs. per reel

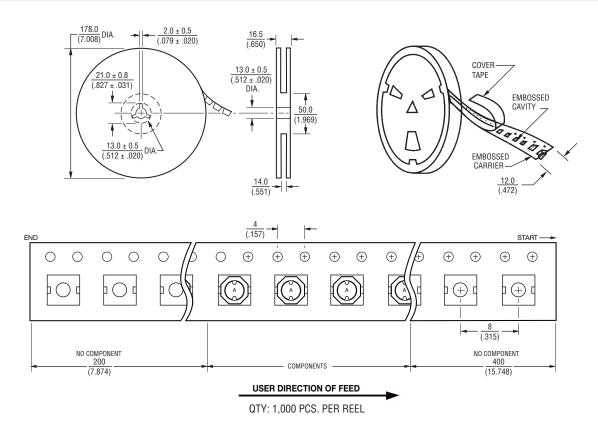




WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

# **SRU2016 Series - Shielded SMD Power Inductors**

#### **Packaging Specifications**



DIMENSIONS: (INCHES)

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