



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

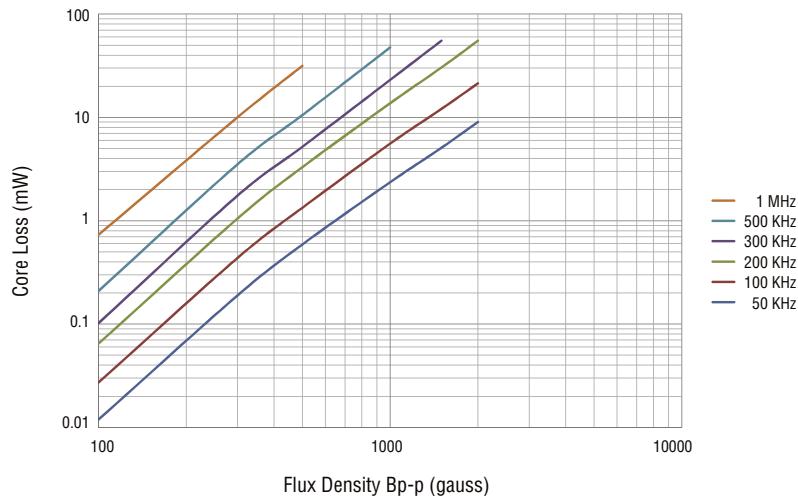
SRU2016 Series - Shielded SMD Power Inductors

Electrical Specifications

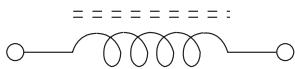
Bourns Part No.	Inductance 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC Max. (mΩ)	Irms Max. (A)	Isat Typ. (A)	Marking	**K-Factor
	(μH)	Tol. %								
SRU2016-1R0Y	1.0	±30	8	7.96	250	60	2.20	1.60	A	2170
SRU2016-2R2Y	2.2	±30	8	7.96	120	105	1.60	1.00	C	1485
SRU2016-3R0Y	3.0	±30	8	7.96	90	135	1.50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

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

Core Loss vs. Flux Density



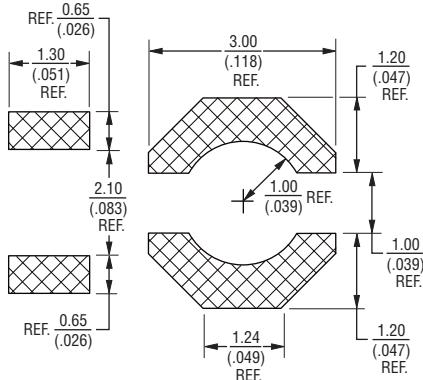
Electrical Schematic



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

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Recommended Layout



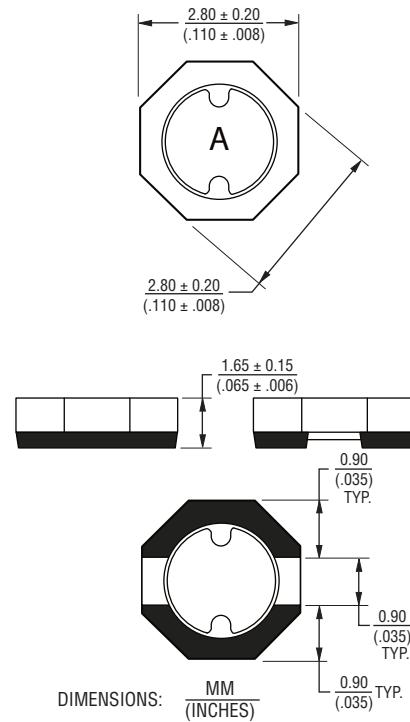
General Specifications

Test Voltage	0.1 V
Reflow Soldering ..	230 °C, 50 sec. max.
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	Enamelled copper
Terminal	Ag/Ni/Sn
Rated Current	Ind. drop 35 % typ. at Isat
Temperature Rise	40 °C max. at rated Irms
Packaging	1,000 pcs. per reel

Product Dimensions

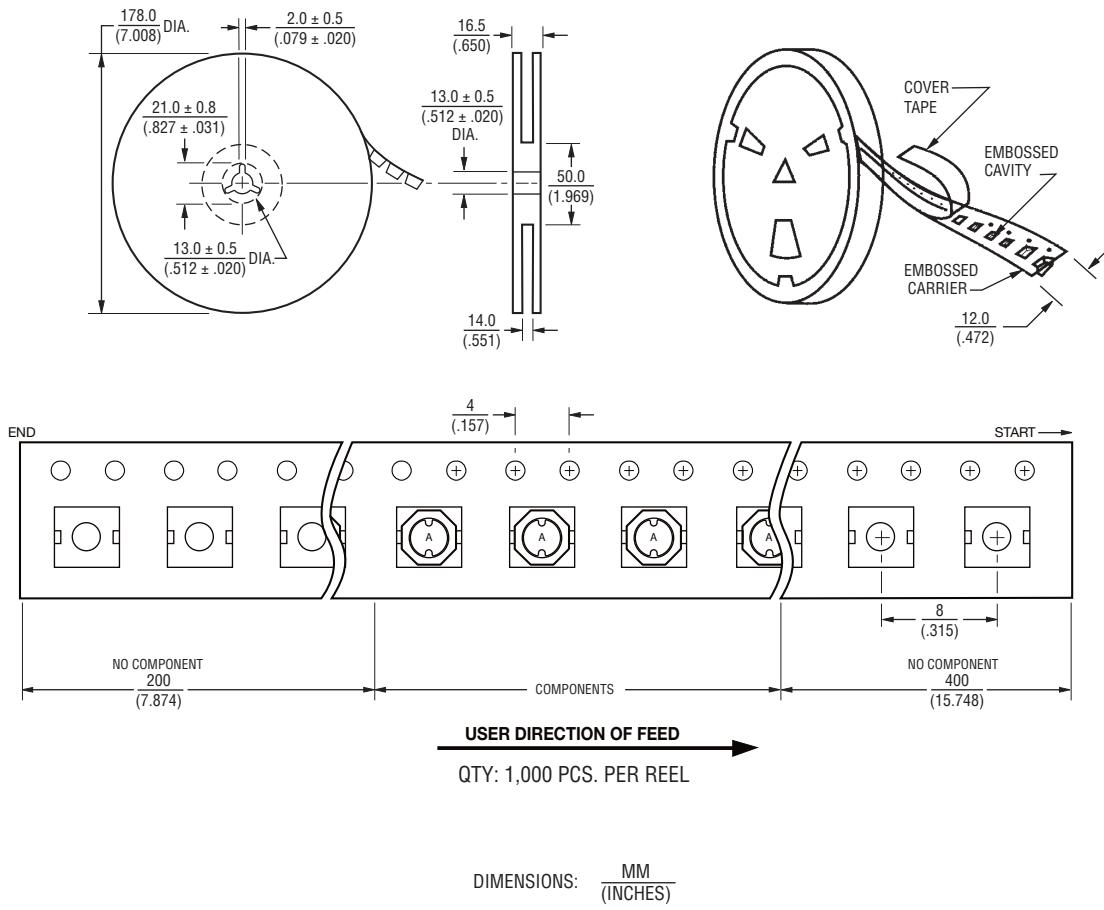


WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

SRU2016 Series - Shielded SMD Power Inductors

BOURNS®

Packaging Specifications



REV. 03/18

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