Features

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

Additional Information

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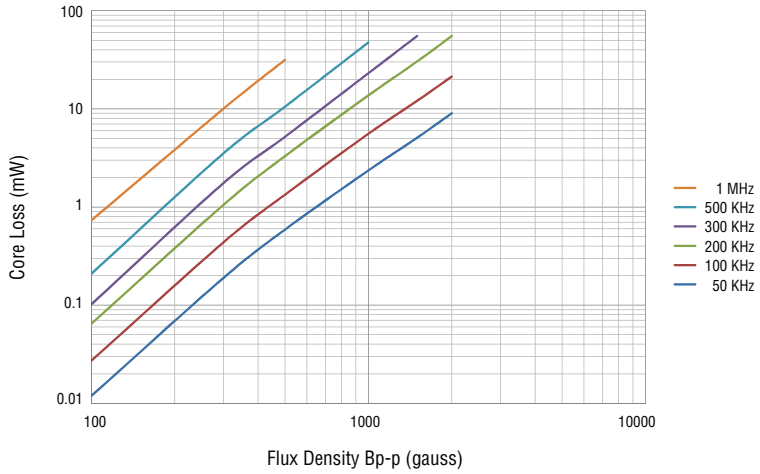
SRU2016 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 KHz (µH)	Tol. %	Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC Max. (mΩ)	Irms Max. (A)	Isat Typ. (A)	Marking	**K-Factor
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 Δ I (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

Core Loss vs. Flux Density



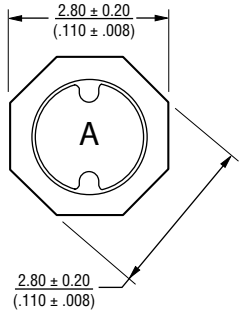
General Specifications

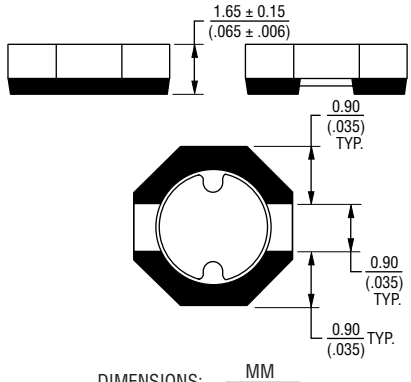
Test Voltage ..... 0.1 V
Reflow Soldering .. 230 °C, 50 sec. max.
Operating Temperature
..... -40 °C to +125 °C
(Temperature rise included)
Storage Temperature
..... -40 °C to +125 °C
Resistance to Soldering Heat
..... 260 °C for 10 sec.
Moisture Sensitivity Level 1
ESD Classification (HBM) ..... N/A

Materials

Core ..... Ferrite DR and RI core
Wire ..... Enameled 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

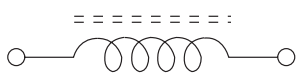
Product Dimensions





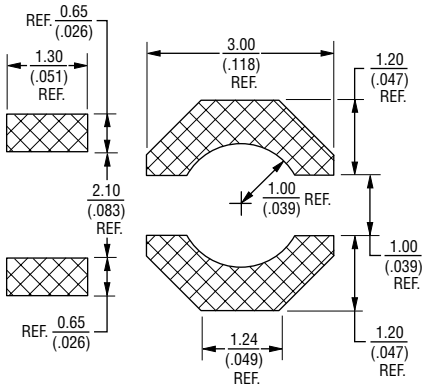
DIMENSIONS: MM (INCHES)

Electrical Schematic



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See www.P65Warnings.ca.gov

Recommended Layout



*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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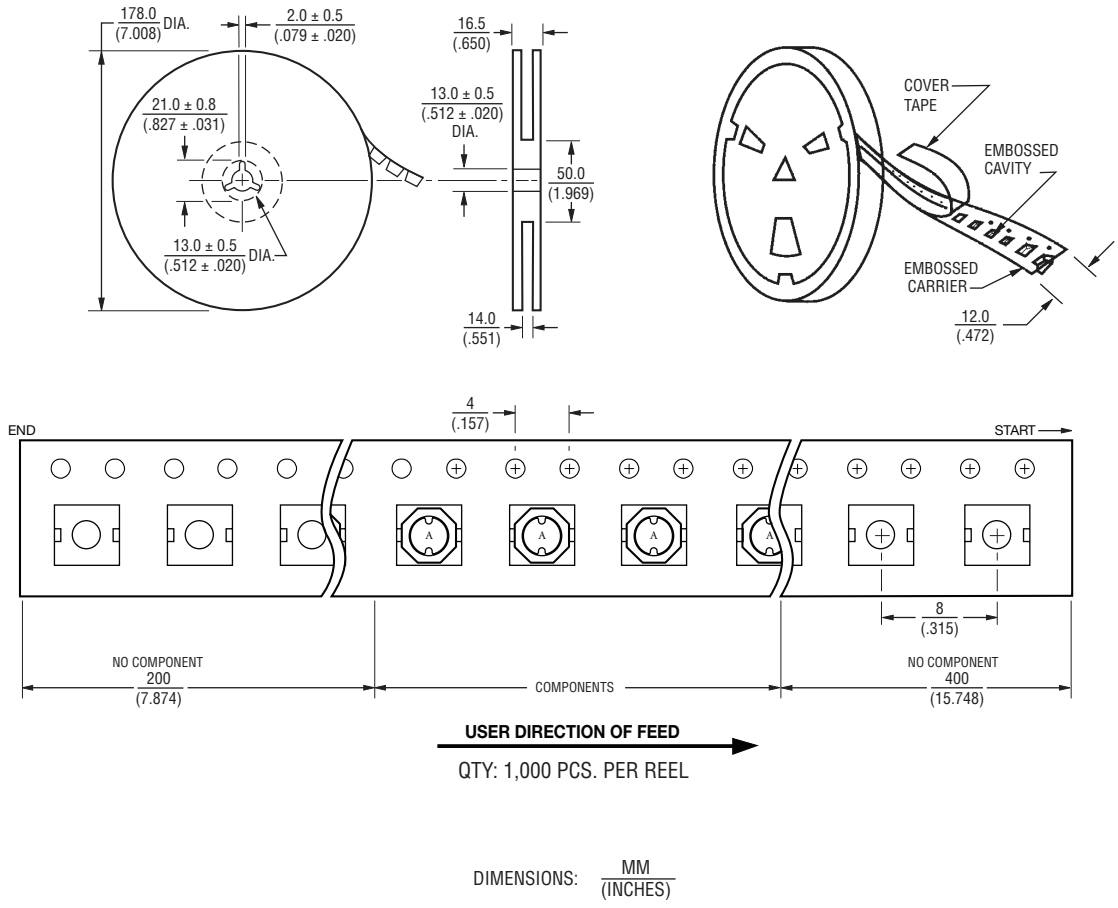
Applications

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

SRU2016 Series - Shielded SMD Power Inductors

BOURNS®

Packaging Specifications



QTY: 1,000 PCS. PER REEL

DIMENSIONS: MM (INCHES)

REV. 09/25

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