Features

- Maximum height of 1.0 mm
- Current up to 1.45 A
- RoHS compliant*

Applications

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

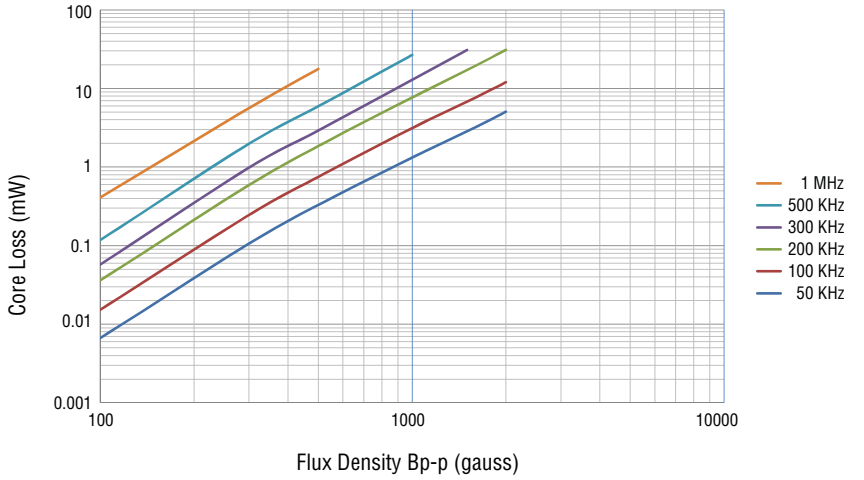
SRU2009 Series - Shielded SMD Power Inductors

Electrical Specifications

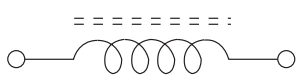
Bourns Part No.	Inductance 100 KHz (µH)	Tol. %	Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC Max. (mΩ)	Irms Max. (A)	Isat Typ. (A)	Marking	**K-Factor
SRU2009-1R0Y	1.0	±30	7	7.96	200	110	1.45	1.30	A	2653
SRU2009-2R2Y	2.2	±30	7	7.96	120	210	1.10	0.80	C	1730
SRU2009-3R3Y	3.3	±30	7	7.96	100	320	0.80	0.60	E	1474
SRU2009-4R4Y	4.4	±30	7	7.96	85	430	0.68	0.50	F	1206
SRU2009-6R8Y	6.8	±30	7	7.96	70	650	0.52	0.45	G	1020
SRU2009-100Y	10	±30	10	2.52	50	1080	0.40	0.35	H	847
SRU2009-150Y	15	±30	10	2.52	40	1370	0.30	0.30	I	698
SRU2009-220Y	22	±30	10	2.52	30	2600	0.22	0.22	J	577

**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.

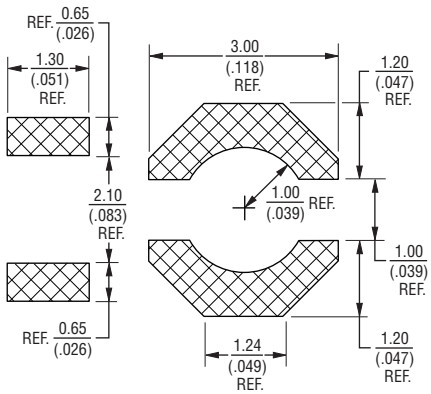
Core Loss vs. Flux Density



Electrical Schematic



Recommended Layout



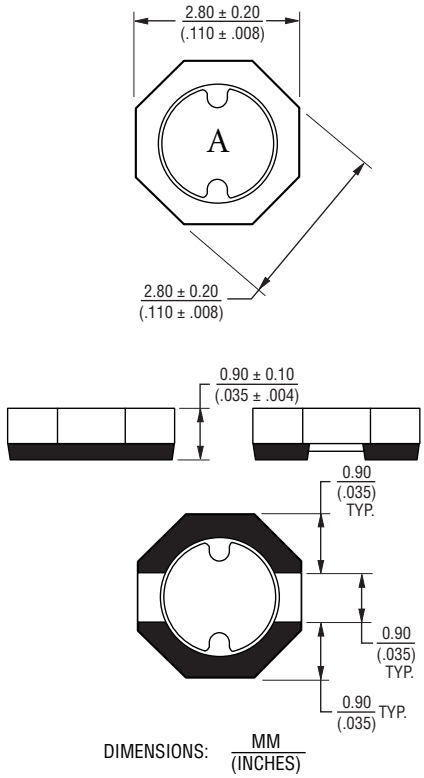
General Specifications

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.

Materials

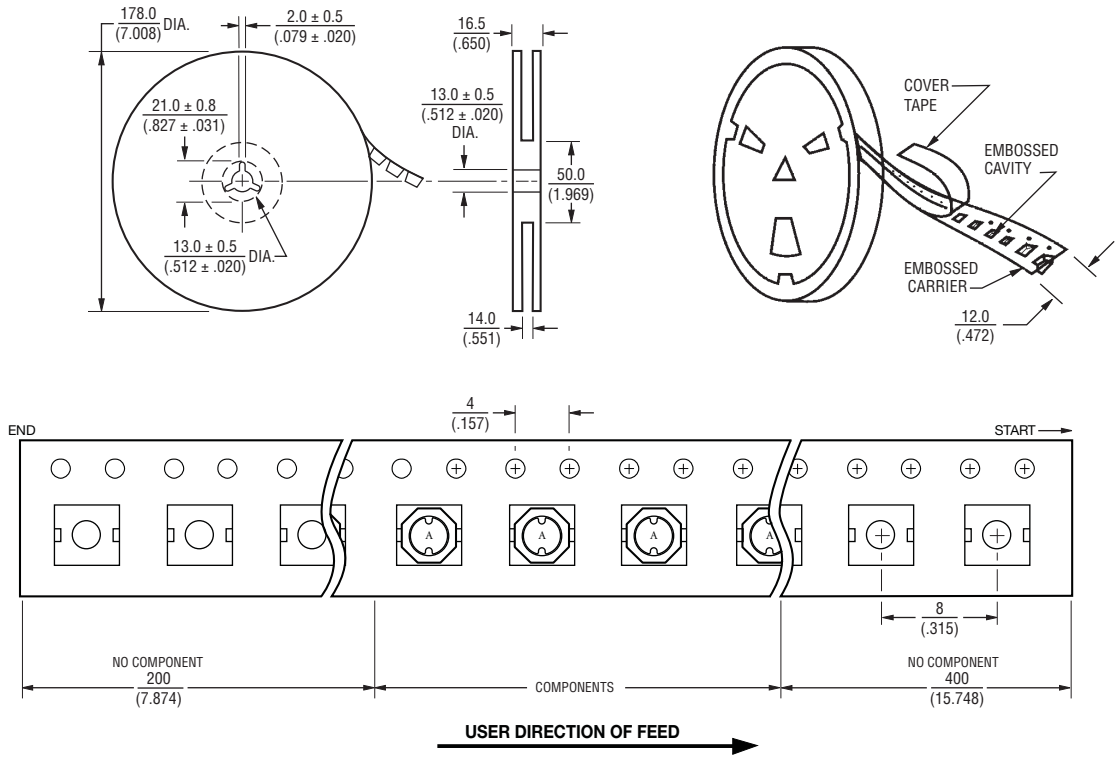
Core.....Ferrite DR and RI core
Wire .....Enameled copper
Terminal.....Ag/Ni/Sn
Rated Current
.....Ind. drop 35 % typ. at Isat
Temperature Rise
.....40 °C max. at rated Irms
Packaging..... 1,500 pcs. per reel

Product Dimensions



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

Packaging Specifications



QTY: 1500 PCS. PER REEL

DIMENSIONS: MM (INCHES)

REV. 11/13