

#### 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

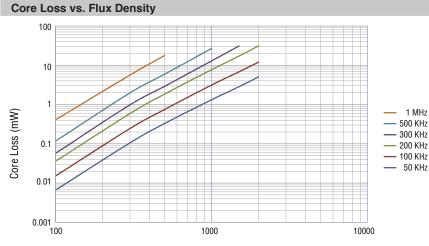
## **, - - - - - - - - -**

# SRU2009 Series - Shielded SMD Power Inductors

#### **Electrical Specifications**

		tance KHz		Test	SRF	RDC	Irms	Isat		
Bourns Part No.	(µH)	Tol. %	Q Ref.	Freq. (MHz)	Typ. (MHz)	Max. (mΩ)	Max. (A)	Тур. (А)	Marking	**K- Factor
SRU2009-1R0Y	1.0	±30	7	7.96	200	110	1.45	1.30	А	2653
SRU2009-2R2Y	2.2	±30	7	7.96	120	210	1.10	0.80	С	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	Н	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

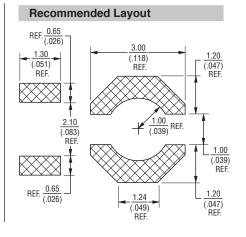
\*\*K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μH) x Δ I (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.



Flux Density Bp-p (gauss)

**Electrical Schematic** 



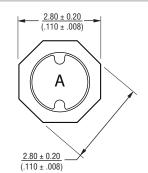


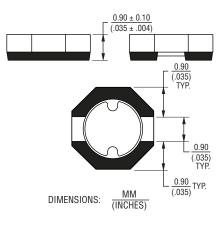
#### **General Specifications**

Test Voltage0.1 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
Moisture Sensitivity Level1
ESD Classification (HBM) N/A
. ,
Materials

	Ferrite DR and RI core
	Ag/Ni/Sn
Rated Current	
In	d. drop 35 % typ. at Isat
Temperature Ris	e
	40 °C max. at rated Irms
Packaging	1,500 pcs. per reel

#### **Product Dimensions**



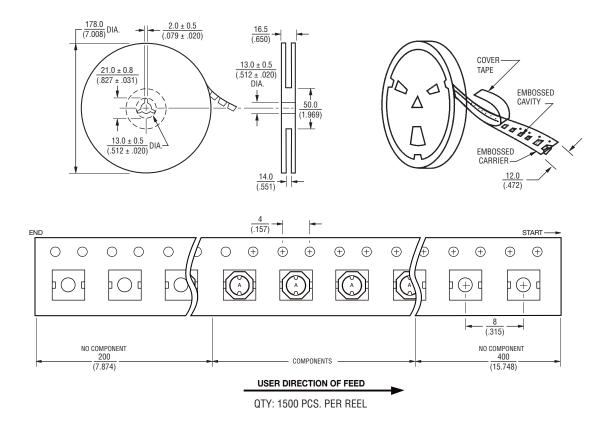


\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at <a href="http://www.bourns.com/docs/legal/disclaimer.pdf">www.bourns.com/docs/legal/disclaimer.pdf</a>.

## **SRU2009 Series - Shielded SMD Power Inductors**

BOURNS

#### **Packaging Specifications**



MM DIMENSIONS: (INCHES)

REV. 03/18

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