



THE DATASHEET OF SRU3009-1R3Y





Features

- Maximum height of 1.05 mm
- Current up to 1.0 A
- RoHS compliant*



The SRU3009 Series is **not** recommended for new designs.

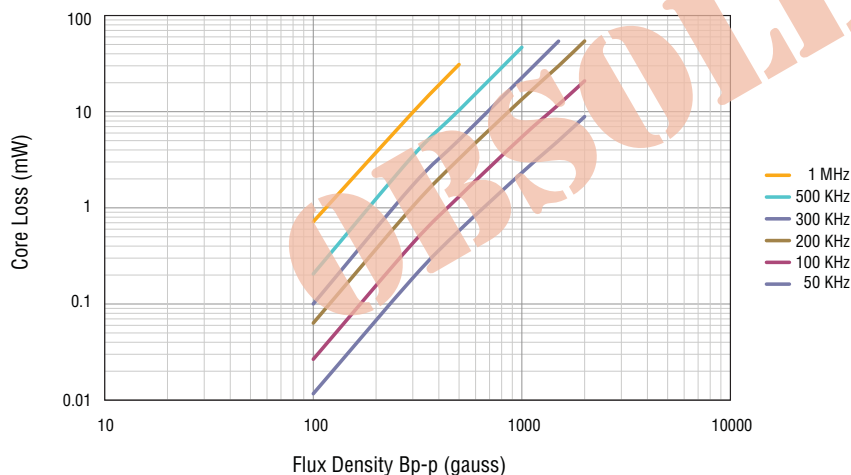
SRU3009 Series - Shielded SMD Power Inductors

Electrical Specifications

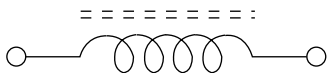
Bourns Part No.	Inductance 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC Max. (mΩ)	Irms Max. (A)	Isat Typ. (A)	Marking	**K-Factor
	(μH)	Tol. %								
SRU3009-1R3Y	1.3	±30	10	7.96	210	115	1.00	1.10	A	1698
SRU3009-2R2Y	2.2	±30	8.5	7.96	150	145	0.80	0.85	B	1340
SRU3009-3R3Y	3.3	±30	8	7.96	130	225	0.65	0.72	C	1107
SRU3009-4R7Y	4.7	±30	9	7.96	100	290	0.48	0.50	D	943
SRU3009-6R8Y	6.8	±30	8	7.96	85	500	0.40	0.43	E	728
SRU3009-100Y	10	±30	8.5	2.52	60	760	0.28	0.35	F	621
SRU3009-220Y	22	±30	20	2.52	40	1450	0.22	0.25	G	417

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

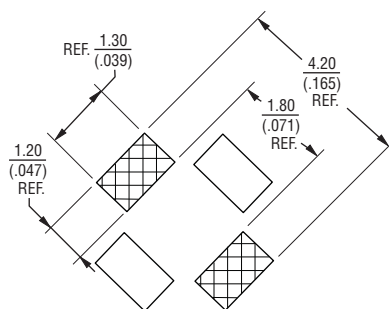
Core Loss vs. Flux Density



Electrical Schematic



Recommended Layout



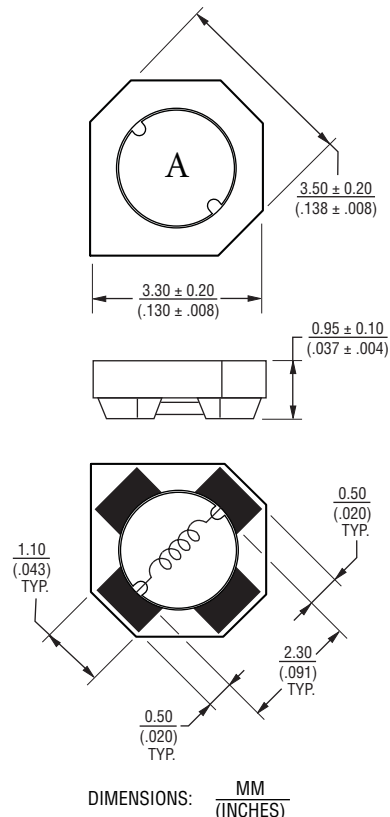
General Specifications

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.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

- Portable communication equipment
- Camcorders
- LCD TVs
- Car radios

BOURNS®

Technical drawing of a 100 ohm resistor tape, showing dimensions in millimeters (mm) and inches (inches).

Top View Dimensions:

- Overall width: 17.8 (7.008) DIA.
- Central hole diameter: 2.0 ± 0.5 (.079 $\pm$.020)
- Inner circle diameter: 21.0 ± 0.8 (.827 $\pm$.031)
- Inner circle diameter: 13.0 ± 0.5 (.512 $\pm$.020) DIA.

Side View Dimensions:

- Top thickness: 16.5 (.650)
- Inner hole diameter: 13.0 ± 0.5 (.512 $\pm$.020) DIA.
- Inner hole depth: 50.0 (1.969)
- Bottom thickness: 14 (.551)

End View Dimensions:

- COVER TAPE
- EMBOSSED CAVITY
- EMBOSSED CARRIER
- Carrier width: 12.0 (.472)

End View Details:

- END
- START
- Dimensions: 8 (.315) and 4 (.157)
- Resistor markings: 100
- NO COMPONENT 200 (7.874)
- COMPONENTS
- NO COMPONENT 400 (15.748)

USER DIRECTION OF FEED

QTY: 1,500 PCS. PER REEL

DIMENSIONS: MM (INCHES)

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