

#### **Features**

- Maximum height of 1.5 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

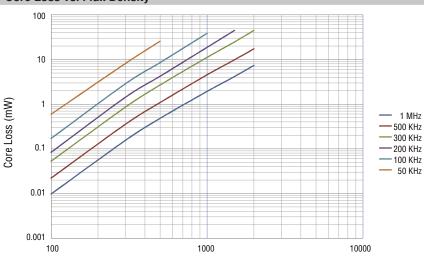
# **SRU2013 Series - Shielded SMD Power Inductors**

#### **Electrical Specifications**

	Inductance 100 KHz			Test	SRF	RDC	Irms	Isat		
Bourns Part No.	(μH)	Tol. %	Q Ref.	Freq. (MHz)	Typ. (MHz)	Max. (mΩ)	Max. (A)	Typ.	Marking	**K- Factor
SRU2013-1R0Y	1.0	±30	9	7.96	180	65	2.20	1.60	Α	2418
SRU2013-2R2Y	2.2	±30	10	7.96	100	120	1.45	0.95	С	1497
SRU2013-3R3Y	3.3	±30	10	7.96	80	135	1.00	0.86	Е	1258
SRU2013-4R7Y	4.7	±30	10	7.96	72	220	0.90	0.75	F	1014
SRU2013-6R8Y	6.8	±30	10	7.96	60	330	0.80	0.60	G	898
SRU2013-100Y	10	±30	12	2.52	40	520	0.67	0.45	Н	731
SRU2013-150Y	15	±30	12	2.52	30	850	0.46	0.40	I	593
SRU2013-220Y	22	±30	12	2.52	25	880	0.40	0.35	J	484
SRU2013-330Y	33	±30	12	2.52	20	1820	0.30	0.25	K	398
SRU2013-470Y	47	±30	14	2.52	15	2860	0.25	0.23	L	318

<sup>\*\*</sup>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



Flux Density Bp-p (gauss)

#### **Electrical Schematic**

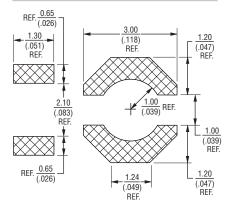


\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.

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## **Recommended Layout**

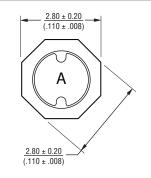


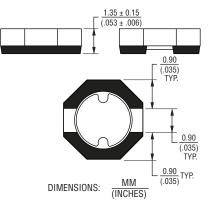
#### **General Specifications**

#### **Materials**

Core.......Ferrite DR and RI core
Terminal......Ag/Ni/Sn
Rated Current
......Ind. drop 35 % typ. at Isat
Temperature Rise
.......40 °C max. at rated Irms
Packaging......1,200 pcs. per reel

### **Product Dimensions**

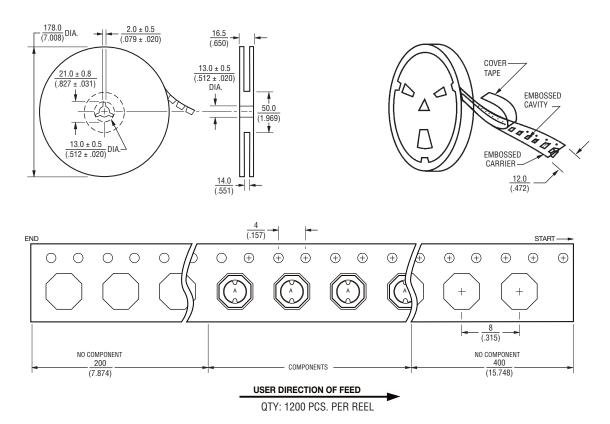






WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

### **Packaging Specifications**



DIMENSIONS:  $\frac{MM}{(INCHES)}$ 

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