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

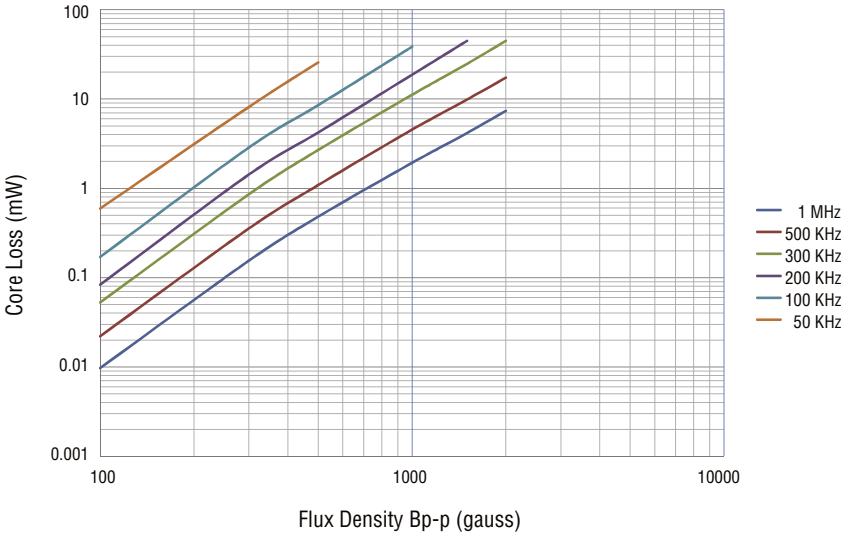
SRU2013 Series - Shielded SMD Power Inductors

Electrical Specifications

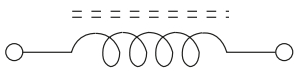
Bourns Part No.	Inductance 100 KHz (µH)	Tol. %	Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC Max. (mΩ)	Irms Max. (A)	Isat Typ. (A)	Marking	**K-Factor
SRU2013-1R0Y	1.0	±30	9	7.96	180	65	2.20	1.60	A	2418
SRU2013-2R2Y	2.2	±30	10	7.96	100	120	1.45	0.95	C	1497
SRU2013-3R3Y	3.3	±30	10	7.96	80	135	1.00	0.86	E	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	H	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

**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.

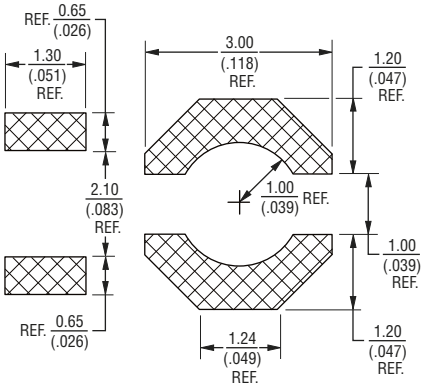
Core Loss vs. Flux Density



Electrical Schematic



Recommended Layout



* 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 www.bourns.com/docs/legal/disclaimer.pdf

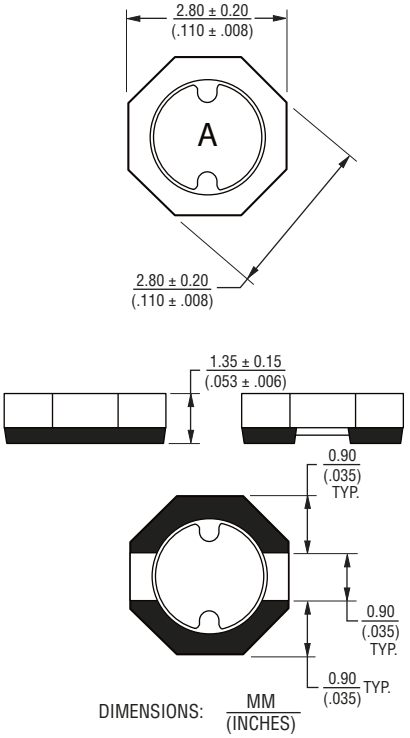
General Specifications

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

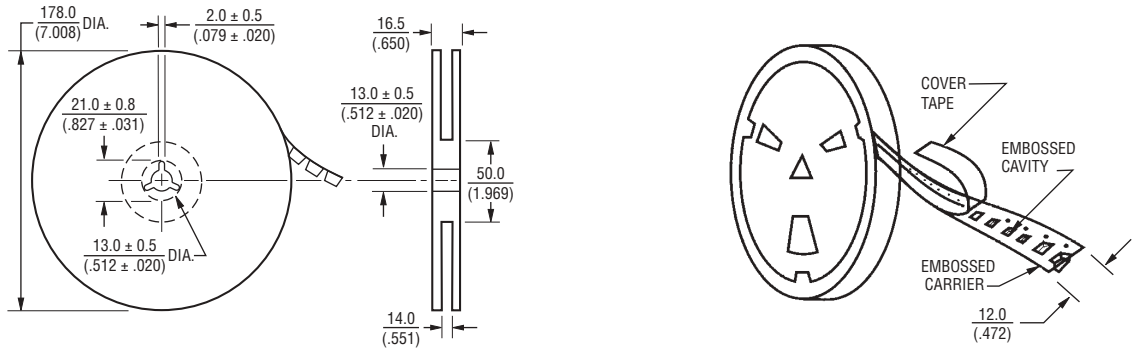
Core ..... Ferrite DR and RI core
Terminal ..... Ag/Ni/Sn
Rated Current
..... Ind. drop 35 % typ. at Isat
Temperature Rise
..... 40 °C max. at rated Irms
Packaging ..... 1,200 pcs. per reel

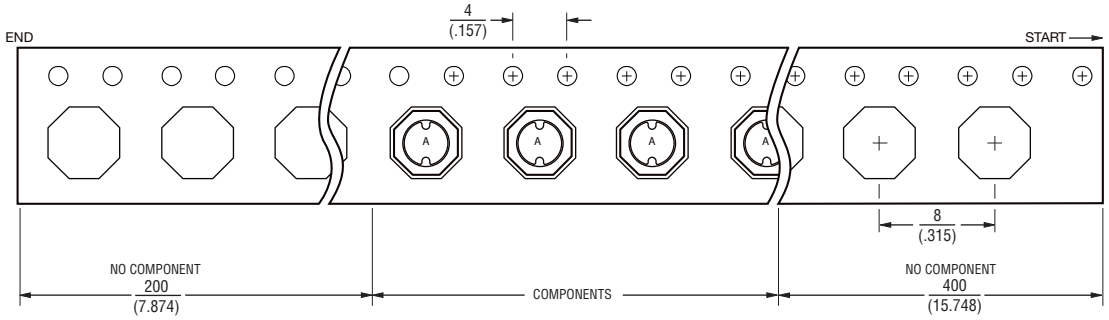
Product Dimensions



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

Packaging Specifications





QTY: 1200 PCS. PER REEL

DIMENSIONS: MM / (INCHES)

REV. 03/18

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Web Page: http://www.bourns.com/legal/disclaimers-terms-and-policies

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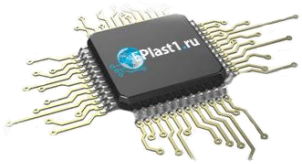
Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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