THE DATASHEET OF

SRU2013-220Y

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

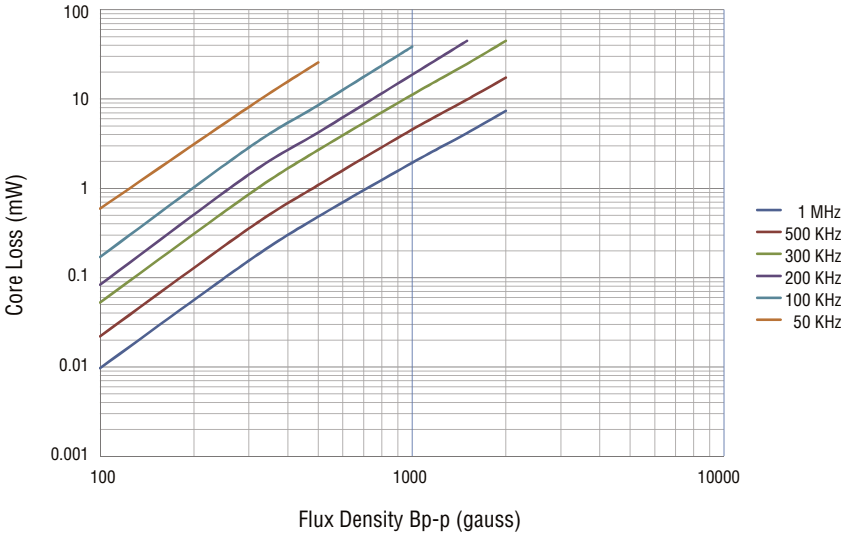
SRU2013 Series - Shielded SMD Power Inductors

Electrical Specifications

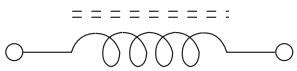
Bourns Part No.	Inductance 100 KHz (µH)	Tol. %	Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC Max. (mΩ)	Irms Max. (A)	Isat Typ. (A)	Marking	**K-Factor
SRU2013-1R0Y	1.0	±30	9	7.96	180	65	2.20	1.60	A	2418
SRU2013-2R2Y	2.2	±30	10	7.96	100	120	1.45	0.95	C	1497
SRU2013-3R3Y	3.3	±30	10	7.96	80	135	1.00	0.86	E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

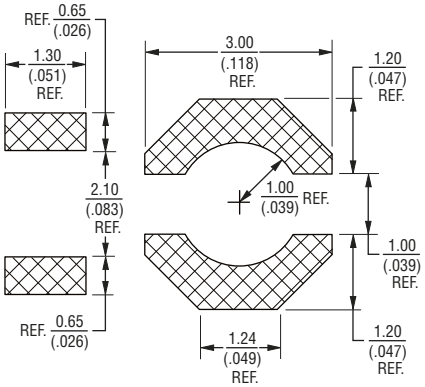
Core Loss vs. Flux Density



Electrical Schematic



Recommended Layout



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

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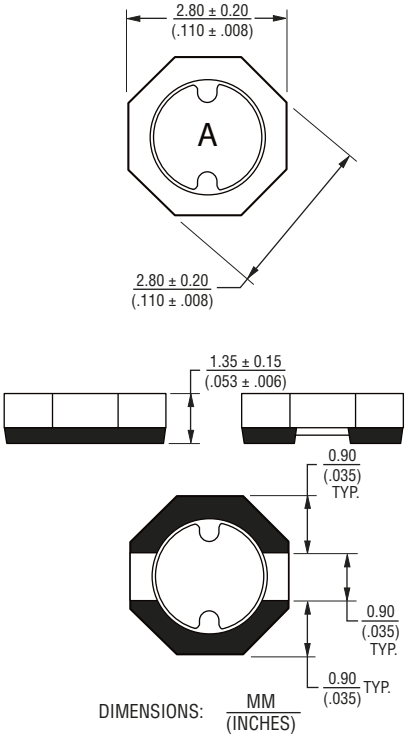
General Specifications

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

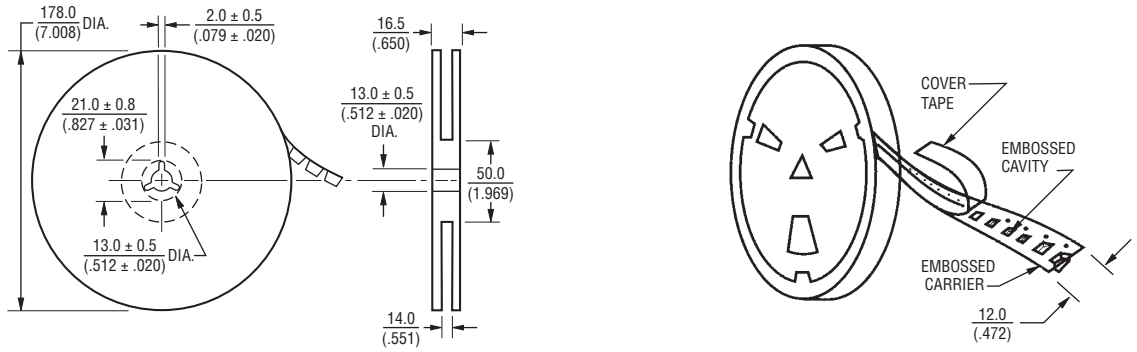
Core ..... Ferrite DR and RI core
Terminal ..... Ag/Ni/Sn
Rated Current
..... Ind. drop 35 % typ. at Isat
Temperature Rise
..... 40 °C max. at rated Irms
Packaging ..... 1,200 pcs. per reel

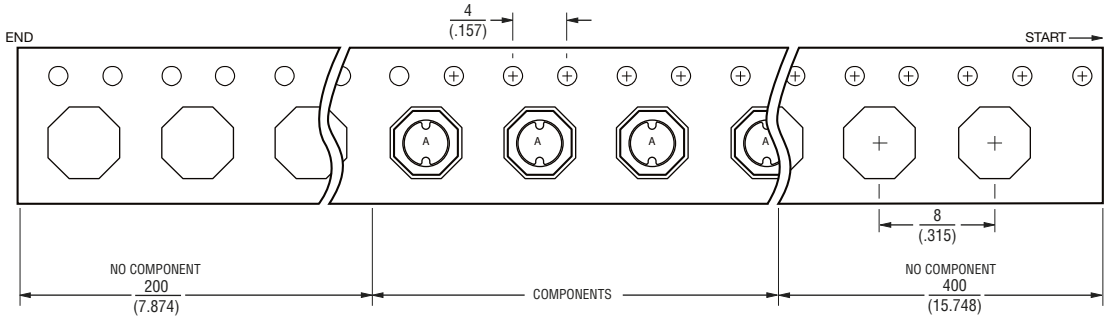
Product Dimensions



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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