



Features

- Available in E6 series
- Unit height of 1.1 mm
- Current up to 1.1 A
- RoHS compliant*

Applications

- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

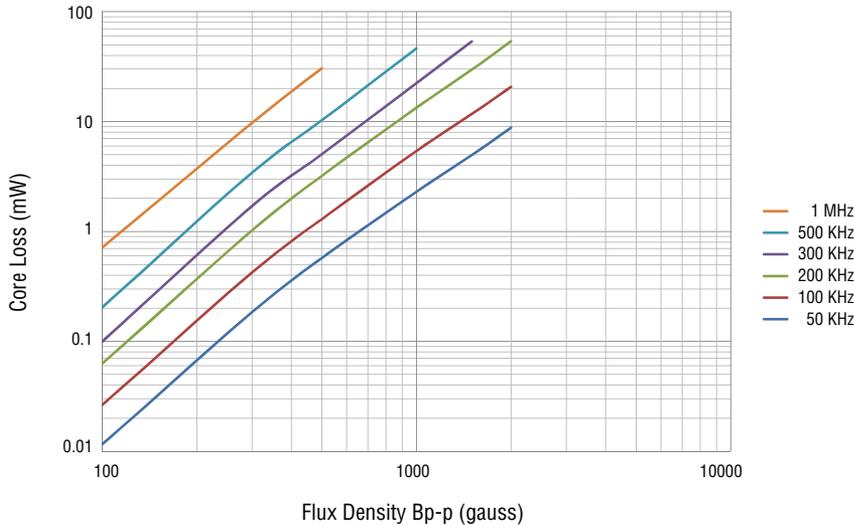
SRU3011 Series - Shielded SMD Power Inductors

Electrical Specifications

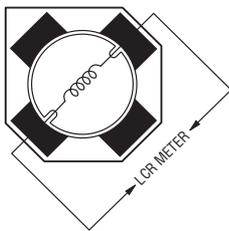
Bourns Part No.	Inductance 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Min. (MHz)	RDC (mΩ)	I _{rms} Max. (A)	Isat Typ. (A)	Marking	**K-Factor
	(μH)	Tol. %								
SRU3011-1R5Y	1.5	±30	7	7.96	180	57	1.10	1.00	A	1698
SRU3011-2R2Y	2.2	±30	7	7.96	150	80	0.92	0.90	B	1498
SRU3011-3R3Y	3.3	±30	8	7.96	120	116	0.84	0.78	C	1213
SRU3011-4R7Y	4.7	±30	8	7.96	90	178	0.63	0.62	D	943
SRU3011-6R8Y	6.8	±30	7	7.96	85	245	0.50	0.46	E	821
SRU3011-100Y	10.0	±30	8	2.52	60	340	0.40	0.35	F	653

**K-Factor: To calculate core flux density, B_p -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.

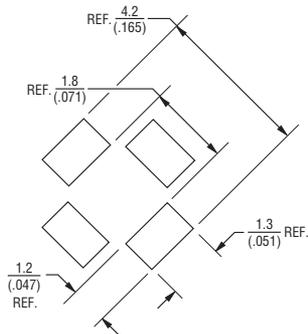
Core Loss vs. Flux Density



Inductor Connection



Recommended Layout



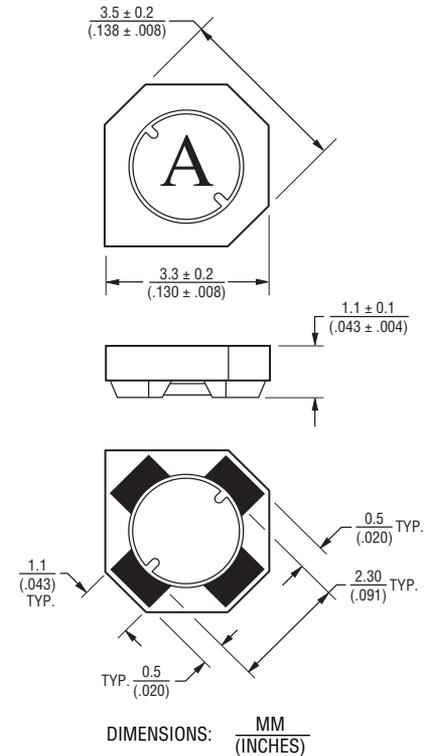
General Specifications

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.

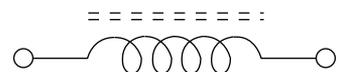
Materials

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 I_{rms}
 Packaging 1500 pcs. per reel

Product Dimensions



Electrical Schematic

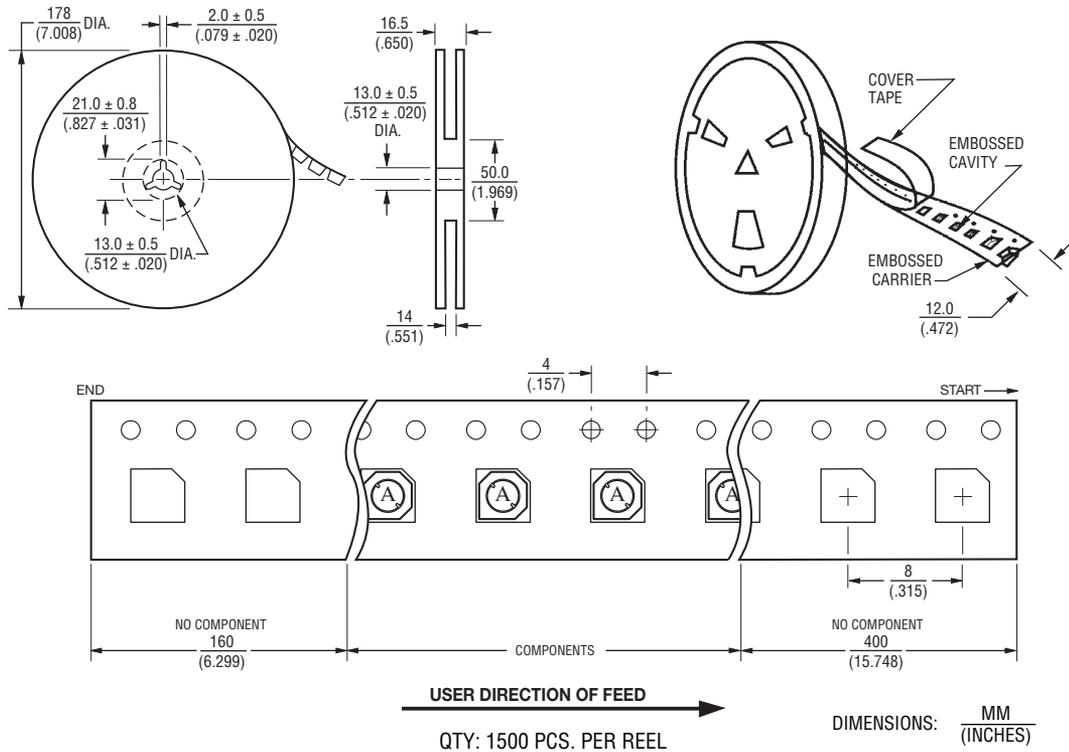


* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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BOURNS®

Packaging Specifications



REV. 11/13

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