



Features

- Maximum height of 1.25 mm
- Current up to 2.6 A
- RoHS compliant*

Applications

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

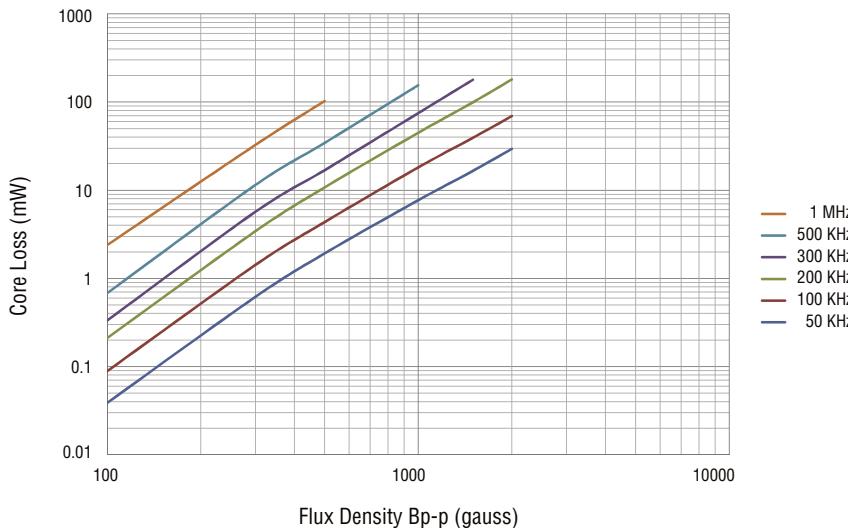
SRU6011 Series - Shielded SMD Power Inductors

Electrical Specifications

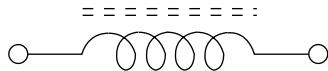
Bourns Part Number	Inductance @ 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC Max. (mΩ)	I rms Max. (A)	I sat Typ. (A)	**K-Factor
	L (μH)	Tol. (%)							
SRU6011-1R4Y	1.4	±30	8	7.96	140	40	2.60	1.80	707
SRU6011-2R7Y	2.7	±30	8	7.96	100	62	2.20	1.45	490
SRU6011-4R7Y	4.7	±30	8	7.96	70	86	1.80	1.10	374
SRU6011-6R8Y	6.8	±30	7	7.96	55	136	1.40	0.90	303
SRU6011-100Y	10	±30	12	2.52	45	220	1.10	0.72	236
SRU6011-150Y	15	±30	10	2.52	32	320	0.95	0.62	193
SRU6011-220Y	22	±30	10	2.52	26	390	0.80	0.48	163
SRU6011-330Y	33	±30	10	2.52	22	560	0.68	0.38	141
SRU6011-470Y	47	±30	10	2.52	20	850	0.55	0.32	112
SRU6011-680Y	68	±30	12	2.52	18	1200	0.46	0.28	92

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

Core Loss vs. Flux Density

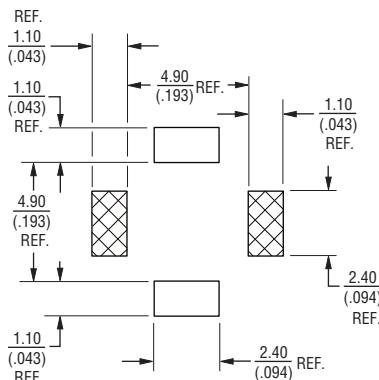


Electrical Schematic



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

Recommended Layout



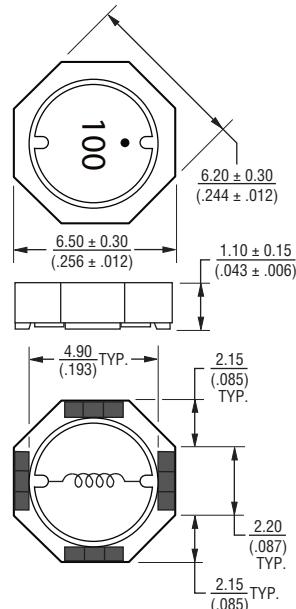
DIMENSIONS: MM (INCHES)

* 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

Materials

Core Ferrite DR and RI core
 Wire Enamelled copper
 Terminal Ag/Ni/Sn
 Rated Current..Ind. drop 35 % typ. at I_{sat}
 Temp. Rise.....40 °C max. at rated I_{rms}
 Packaging..... 1000 pcs. per reel

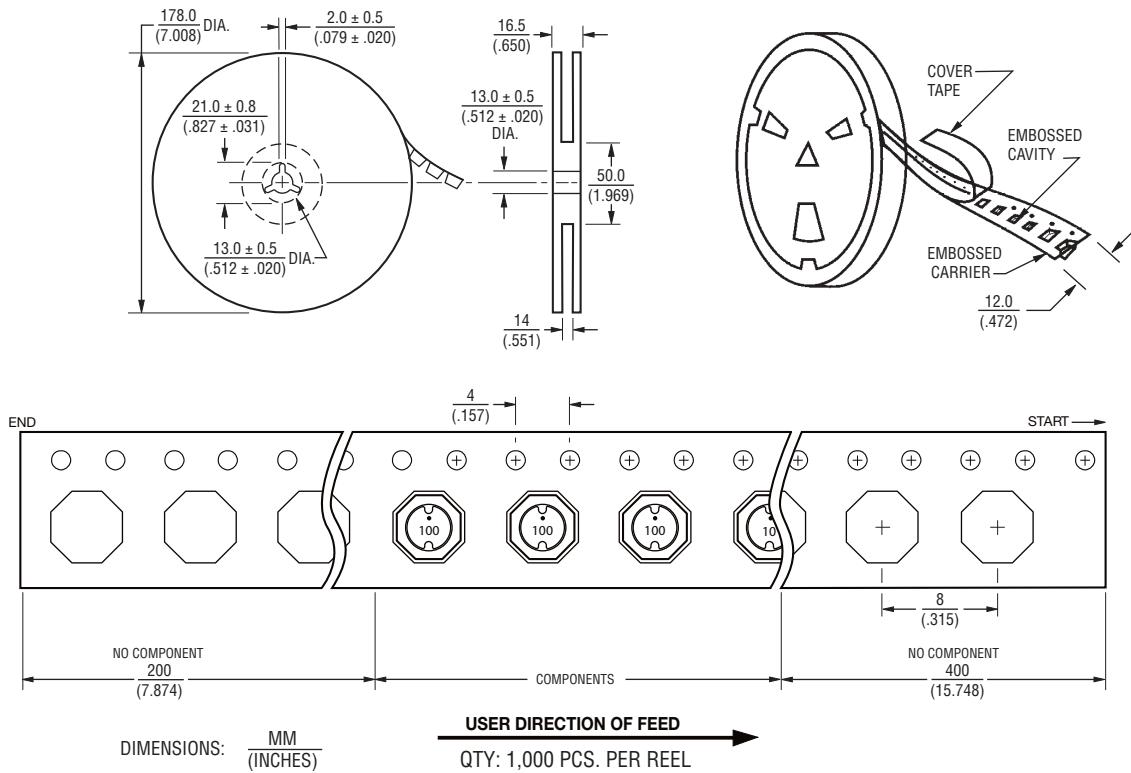
Product Dimensions



SRU6011 Series - Shielded SMD Power Inductors

BOURNS®

Packaging Specifications



REV. 03/18

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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