



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

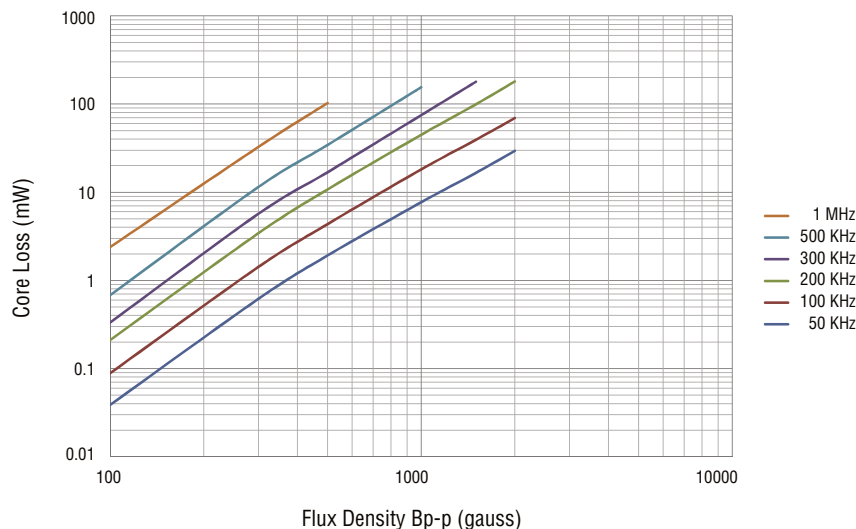
SRU6011 Series - Shielded SMD Power Inductors

Electrical Specifications

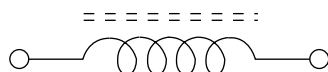
Bourns Part Number	Inductance @ 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC Max. (mΩ)	I rms Max. (A)	I sat Typ. (A)	**K- Factor
	L (μH)	Tol. (%)							
SRU6011-1R4Y	1.4	±30	8	7.96	140	40	2.60	1.80	707
SRU6011-2R7Y	2.7	±30	8	7.96	100	62	2.20	1.45	490
SRU6011-4R7Y	4.7	±30	8	7.96	70	86	1.80	1.10	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) = $K \times L(\mu H) \times \Delta I$ (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

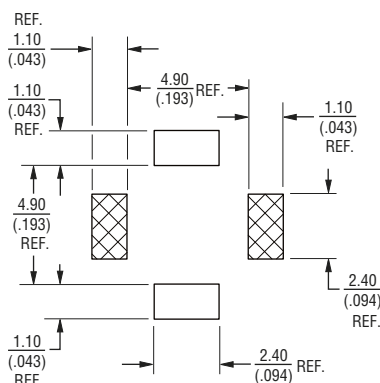
Core Loss vs. Flux Density



Electrical Schematic



Recommended Layout



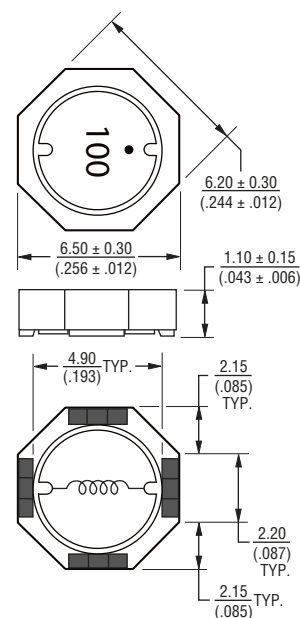
General Specifications

Test Voltage 0.1 V
 Reflow Soldering .. 230 °C, 50 sec. max.
 Operating Temp. -40 °C to +125 °C
 (Temperature rise included)
 Storage Temp. -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
 Wire Enamelled copper
 Terminal Ag/Ni/Sn
 Rated Current.. Ind. drop 35 % typ. at Isat
 Temp. Rise..... 40 °C max. at rated I rms
 Packaging..... 1000 pcs. per reel

Product Dimensions



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



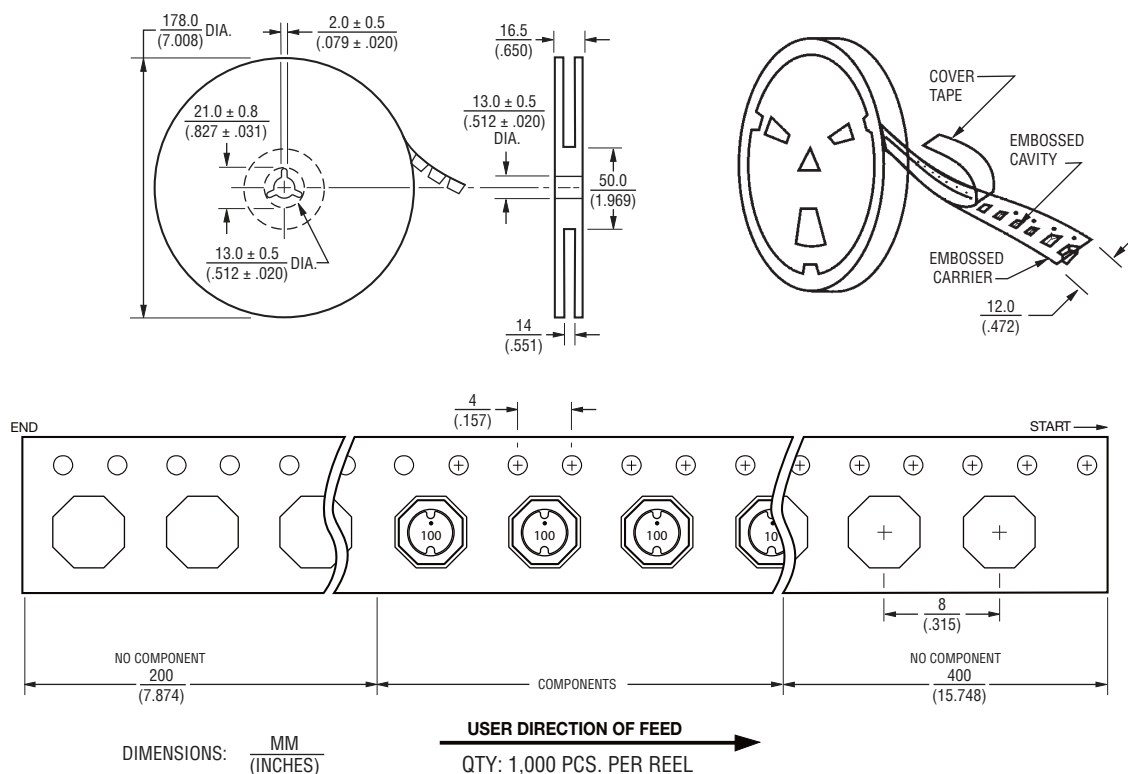
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
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SRU6011 Series - Shielded SMD Power Inductors

BOURNS®

Packaging Specifications



REV. 03/18

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