

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

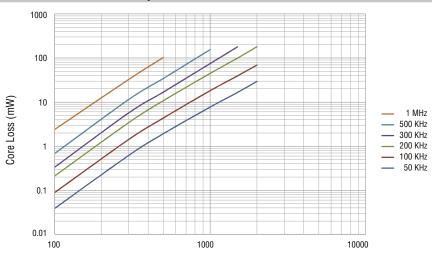
SRU6011 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part Number	Inductance @ 100 KHz		Q	Test Freq.	SRF Typ.	RDC Max.	l rms Max.	l sat Typ.	
	L (μH)	Tol. (%)	Ref.	(MHz)	(MHz)	(mΩ)	(A)	(A)	**K- Factor
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

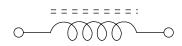
^{**}K-Factor: To calculate core flux density, Bp-p (gauss) = K x $L(\mu H)$ x Δ I (peak-to-peak ripple current, A), determine core loss from Core Loss vs. Flux Density plot.

Core Loss vs. Flux Density



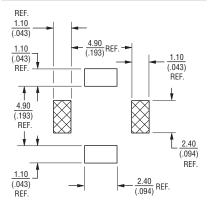
Flux Density Bp-p (gauss)

Electrical Schematic



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

Recommended Layout



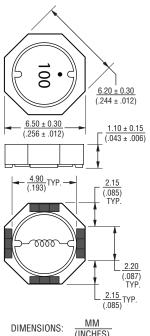
General Specifications

Operating Temp.....-40 °C to +125 °C (Temperature rise included) Storage Temp.-40 °C to +125 °Ć Resistance to Soldering Heat260 °C for 10 sec. Moisture Sensitivity Level.....1 ESD Classification (HBM).....N/A

Materials

Core.....Ferrite DR and RI core WireEnameled copper Terminal Ag/Ni/Sn Rated Current..Ind. drop 35 % typ. at Isat Temp. Rise...... 40 °C max. at rated Irms Packaging......1000 pcs. per reel

Product Dimensions

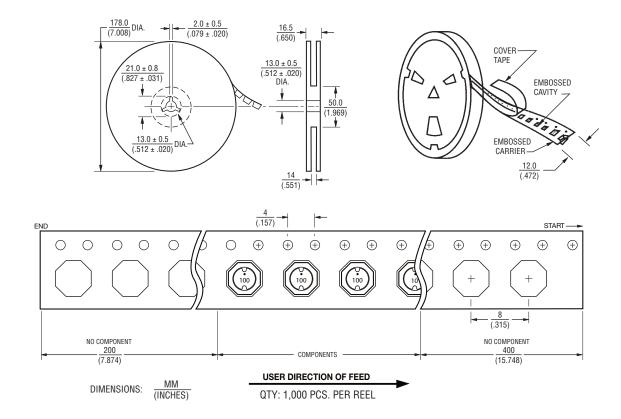


(INCHES)

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

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Packaging Specifications



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