



Features

- Available in E6 series
- Unit height of 1.1 mm
- Current up to 1800 mA
- RoHS compliant*

Applications

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

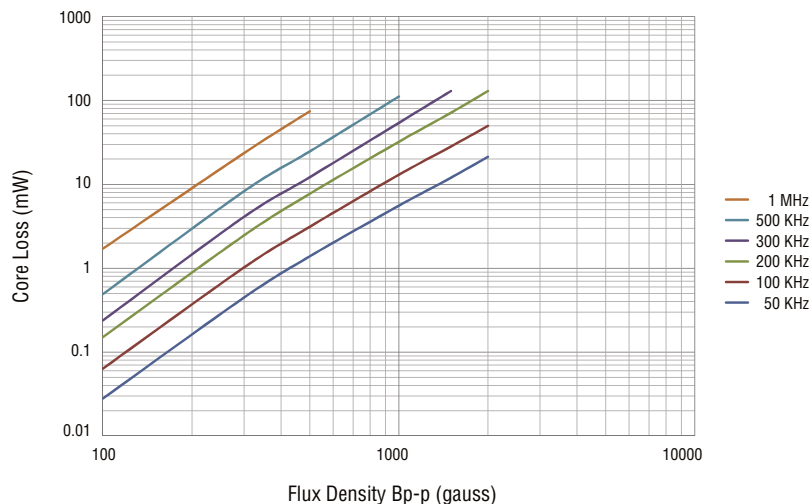
SRU5011 Series - Shielded SMD Power Inductors

Electrical Specifications

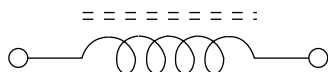
Bourns Part Number	Inductance @ 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Min. (MHz)	RDC (mΩ)	I rms Max. (A)	I sat Typ. (A)	**K- Factor
	L (μH)	Tol. (%)							
SRU5011-1R5Y	1.5	±30	8	7.96	195.0	32	1.80	1.50	904
SRU5011-2R5Y	2.5	±30	8	7.96	125.0	52	1.30	1.10	765
SRU5011-3R3Y	3.3	±30	8	7.96	110.0	66	1.15	0.94	585
SRU5011-4R7Y	4.7	±30	8	7.96	85.0	95	1.00	0.82	524
SRU5011-6R8Y	6.8	±30	8	7.96	70.0	130	0.82	0.68	398
SRU5011-100Y	10.0	±30	12	7.96	50.0	170	0.70	0.58	368
SRU5011-150Y	15.0	±30	12	2.52	42.0	250	0.60	0.48	284
SRU5011-220Y	22.0	±30	14	2.52	38.0	380	0.50	0.40	231
SRU5011-330Y	33.0	±30	14	2.52	30.0	550	0.38	0.30	188
SRU5011-470Y	47.0	±30	16	2.52	25.0	800	0.32	0.26	163
SRU5011-680Y	68.0	±30	14	2.52	20.0	1240	0.26	0.22	136
SRU5011-101Y	100.0	±30	30	0.796	15.0	1600	0.20	0.18	112

**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

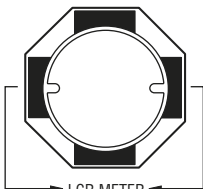


Electrical Schematic



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



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

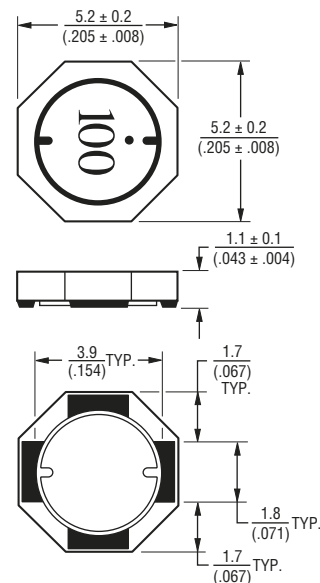
General Specifications

Test Voltage0.1 V
Reflow Soldering .. 230 °C, 50 sec. max.
Operating Temp.-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

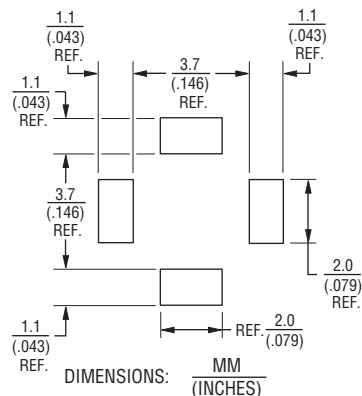
Materials

Core.....Ferrite DR and RI core
Wire.....Enameled copper
Terminal.....Ag/Ni/Sn
Rated Current..Ind. drop 35 % typ. at Isat
Temp. Rise..... 25 °C max. at rated Irms
Packaging..... 1500 pcs. per reel

Product Dimensions



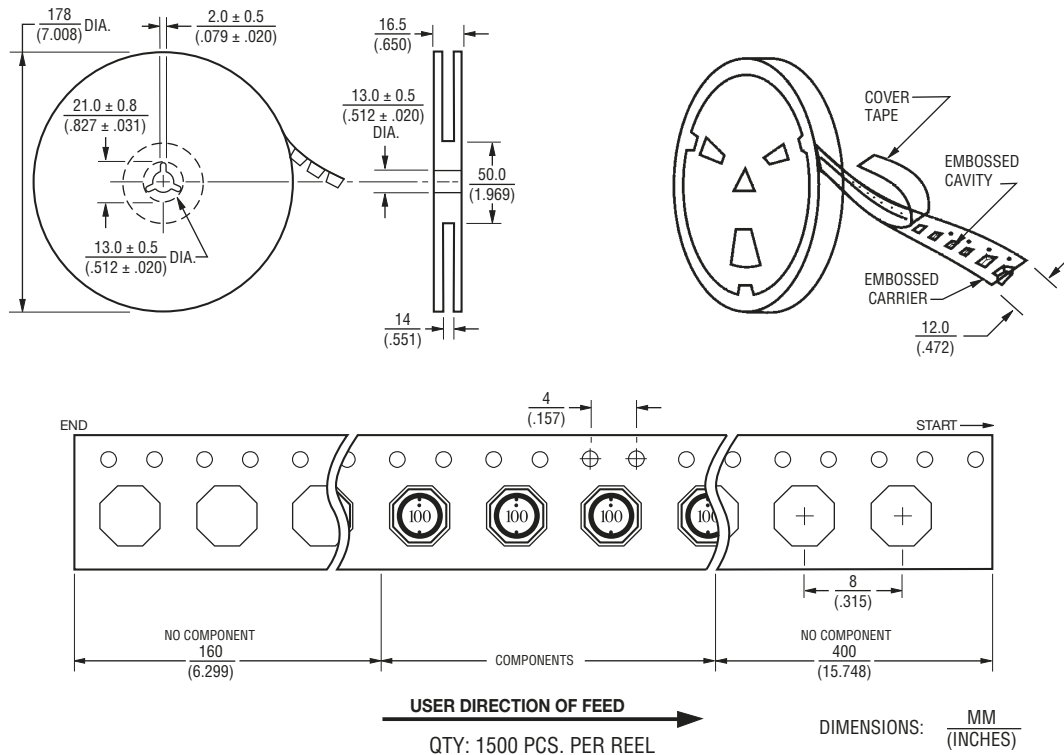
Recommended Layout



SRU5011 Series - Shielded SMD Power Inductors

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Packaging Specifications



REV. 03/18

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