

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

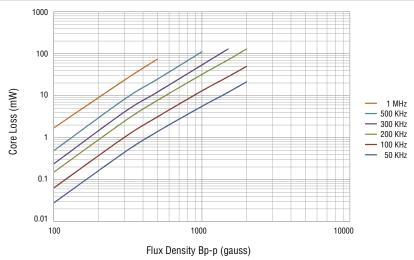
SRU5011 Series - Shielded SMD Power Inductors

Electrical Specifications

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

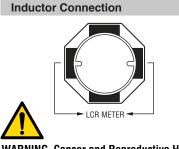
**K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μH) x Δ I (peak-to-peak ripple current, A), determine core loss from Core Loss vs. Flux Density plot.

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. 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



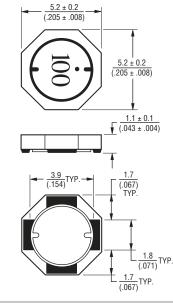
WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

General Specifications

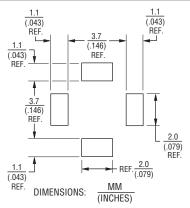
Test Voltage0.1 V Reflow Soldering 230 °C, 50 sec. max. Operating Temp40 °C to +125 °C (Temperature rise included) Storage Temperature40 °C to +125 °C Resistance to Soldering Heat +260 °C for 10 sec. Moisture Sensitivity Level1 ESD Classification (HBM)N/A
Materials

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



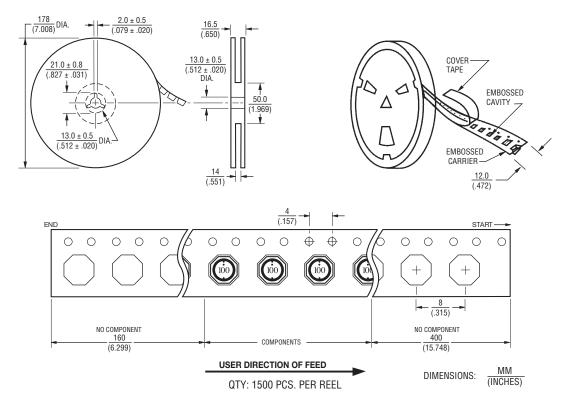
Recommended Layout



SRU5011 Series - Shielded SMD Power Inductors

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Packaging Specifications



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