

Features

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



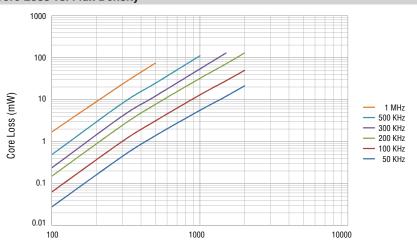
SRU5011 Series - Shielded SMD Power Inductors

Electrical Specifications

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



Flux Density Bp-p (gauss)

Electrical Schematic



*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

Inductor Connection

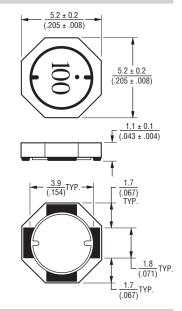




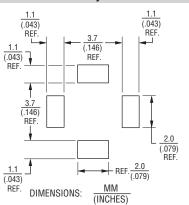
General Specifications

Materials

Product Dimensions



Recommended Layout

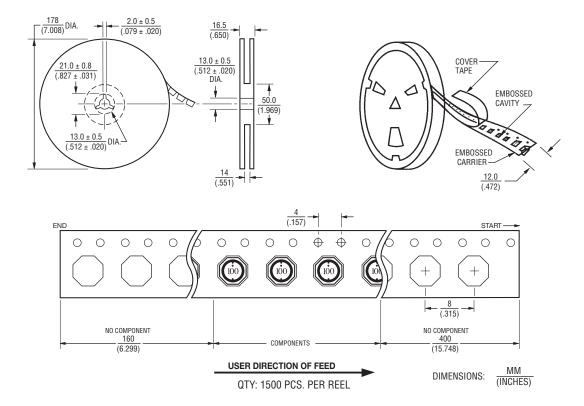


Applications

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

SRU5011 Series - Shielded SMD Power Inductors

Packaging Specifications



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