

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- Maximum height of 1.60 mm
- Current up to 3.2 A
- RoHS compliant*

Applications

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

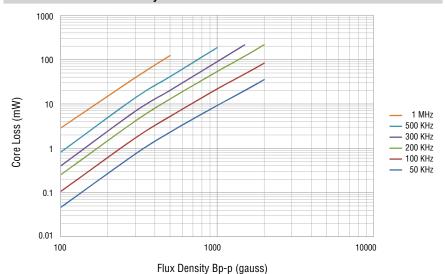
SRU6013 Series - Shielded SMD Power Inductors

Electrical Specifications

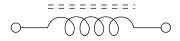
Bourns	Inductance @ 100 KHz		Q	Test	SRF	RDC	I rms Max.	l sat	
Part Number	L (μΗ)	Tol. (%)	Ref.	Freq. (MHz)	Typ. (MHz)	Max. (mΩ)	(A)	Typ. (A)	**K- Factor
SRU6013-1R0Y	1.0	±30	12	7.96	100	36	3.20	2.90	453
SRU6013-1R5Y	1.5	±30	10	7.96	90	40	3.00	2.40	370
SRU6013-2R2Y	2.2	±30	10	7.96	80	50	2.50	2.10	313
SRU6013-3R3Y	3.3	±30	10	7.96	70	60	2.35	1.75	272
SRU6013-4R2Y	4.2	±30	10	7.96	55	75	2.10	1.50	214
SRU6013-6R4Y	6.4	±30	10	7.96	45	110	1.70	1.30	177
SRU6013-100Y	10	±30	14	2.52	35	165	1.40	1.00	151
SRU6013-150Y	15	±30	12	2.52	26	235	1.10	0.80	116
SRU6013-220Y	22	±30	12	2.52	22	325	0.95	0.72	99
SRU6013-330Y	33	±30	10	2.52	18	500	0.78	0.58	77
SRU6013-470Y	47	±30	10	2.52	14	675	0.66	0.50	65
SRU6013-680Y	68	±30	10	2.52	10	900	0.60	0.40	57

**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



The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

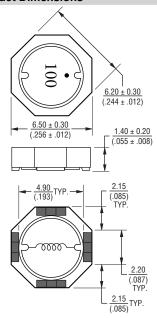
Users should verify actual device performance in their specific applications.

General Specifications

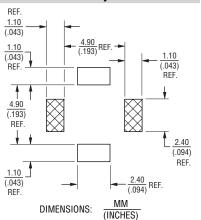
Materials

CoreFerrite DR and RI core
WireEnameled copper
TerminalAg/Ni/Sn
Rated Current..Ind. drop 35 % typ. at Isat
Temp. Rise.....40 °C max. at rated Irms
Packaging1000 pcs. per reel

Product Dimensions



Recommended Layout



^{*} 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.

Packaging Specifications

