

Features

- Maximum height of 2.0 mm
- Current up to 3.6 A
- RoHS compliant*

Applications

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

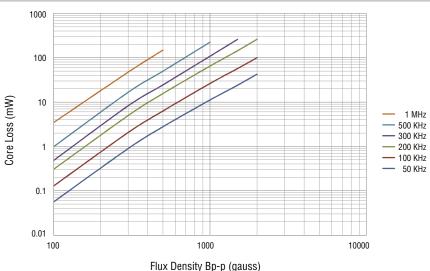
SRU6018 Series - Shielded SMD Power Inductors

Electrical Specifications

	Inductance @ 100 KHz			Test	SRF	RDC	I rms	I sat	
Bourns Part Number	L (μH)	Tol. (%)	Q Ref.	Freq. (MHz)	Typ. (MHz)	Max. (mΩ)	Max. (A)	Typ. (A)	**K- Factor
SRU6018-1R2Y	1.2	±30	8	7.96	130	25	3.60	2.80	707
SRU6018-1R8Y	1.8	±30	8	7.96	90	28	3.00	2.30	579
SRU6018-3R3Y	3.3	±30	8	7.96	60	36	2.50	1.70	424
SRU6018-4R7Y	4.7	±30	8	7.96	50	52	2.20	1.40	374
SRU6018-6R8Y	6.8	±30	8	7.96	40	60	1.90	1.20	303
SRU6018-100Y	10	±30	12	2.52	30	88	1.70	1.00	236
SRU6018-150Y	15	±30	12	2.52	24	130	1.50	0.80	193
SRU6018-220Y	22	±30	14	2.52	18	190	1.20	0.65	163
SRU6018-330Y	33	±30	10	2.52	16	255	1.00	0.58	130
SRU6018-470Y	47	±30	12	2.52	14	410	0.80	0.46	108
SRU6018-680Y	68	±30	12	2.52	12	600	0.62	0.36	90
SRU6018-101Y	100	±30	20	2.52	9	715	0.50	0.34	77

^{**}K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μ 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



Electrical Schematic





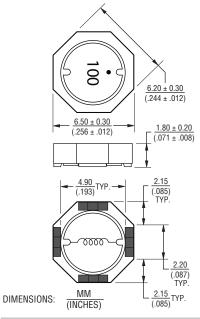
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*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

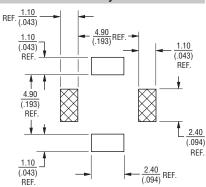
General Specifications

Materials

Product Dimensions

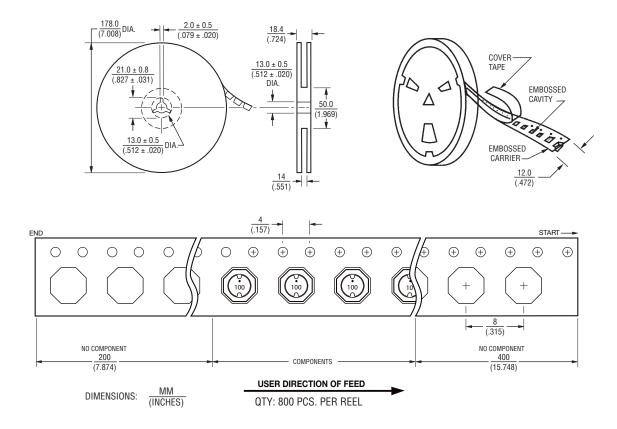


Recommended Layout



SRU6018 Series - Shielded SMD Power Inductors

Packaging Specifications



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