

Features

- Available in E6 series
- Unit height of 1.8 mm
- Current up to 1.7 A
- RoHS compliant*

Applications

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

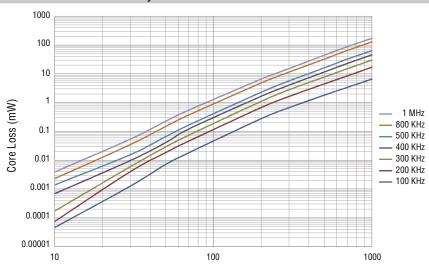
SRU3017 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns	Inductance 100 KHz		Q	Test Freg.	SRF	RDC	Irms Max.	Isat	**K-
Part No.	(μH)	Tol. %	Ref.	(MHz)	Typ. (MHz)	(mΩ)	(A)	Typ. (A)	Factor
SRU3017-2R2Y	2.2	± 30	8	7.96	100	35	1.70	0.98	1238
SRU3017-3R3Y	3.3	± 30	8	7.96	80	55	1.45	0.80	1002
SRU3017-4R7Y	4.7	± 30	10	7.96	60	68	1.10	0.63	842
SRU3017-6R8Y	6.8	± 30	10	7.96	50	85	1.00	0.53	726
SRU3017-100Y	10.0	± 30	15	7.96	40	120	0.85	0.47	601
SRU3017-150Y	15.0	± 30	20	2.52	35	175	0.68	0.35	489
SRU3017-220Y	22.0	± 30	20	2.52	30	250	0.60	0.30	413
SRU3017-330Y	33.0	± 30	20	2.52	20	430	0.47	0.25	324
SRU3017-470Y	47.0	± 30	18	2.52	18	540	0.36	0.21	273

^{**}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



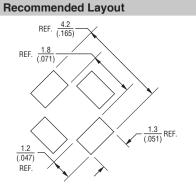
Flux Density Bp-p (gauss)

<u>^</u>

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.

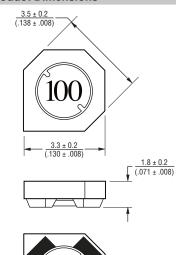
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

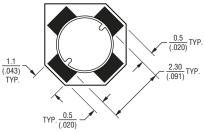


General Specifications

Materials

Product Dimensions



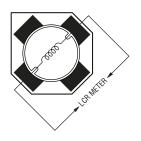


DIMENSIONS: MM

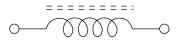
SRU3017 Series - Shielded SMD Power Inductors

BOURNS

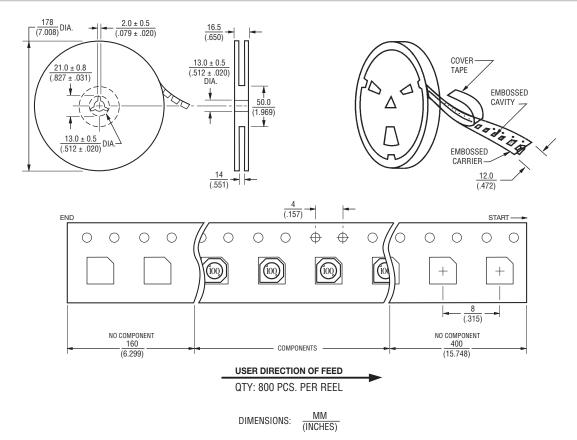
Inductor Connection



Electrical Schematic



Packaging Specifications



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