



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

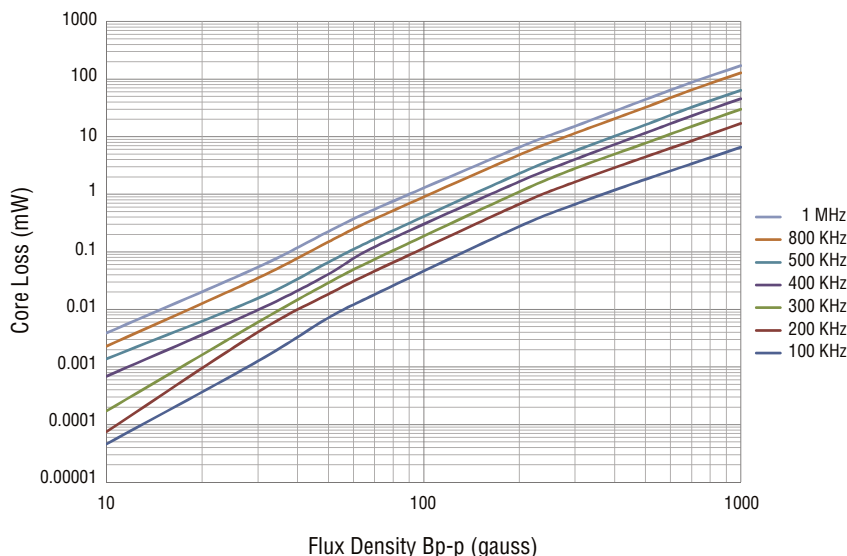
SRU3017 Series - Shielded SMD Power Inductors

Electrical Specifications

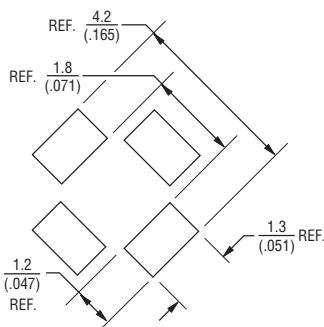
Bourns Part No.	Inductance 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC (mΩ)	Irms Max. (A)	Isat Typ. (A)	**K-Factor
	(μH)	Tol. %							
SRU3017-2R2Y	2.2	± 30	8	7.96	100	35	1.70	0.98	1238
SRU3017-3R3Y	3.3	± 30	8	7.96	80	55	1.45	0.80	1002
SRU3017-4R7Y	4.7	± 30	10	7.96	60	68	1.10	0.63	842
SRU3017-6R8Y	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, B_p -p (gauss) = $K \times L(\mu H) \times \Delta I$ (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

Core Loss vs. Flux Density



Recommended Layout



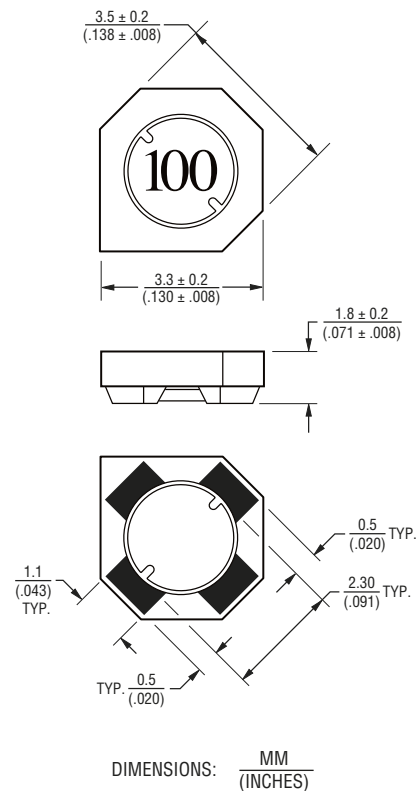
General Specifications

Test Voltage 0.1 V
 Reflow Soldering .. 230 °C, 50 sec. max.
 Operating Temperature -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature .. -40 °C to +125 °C
 Resistance to Soldering Heat 260 °C for 10 sec.
 Rated Current Ind. drop 35 % typ. at Isat
 Temp. Rise 30 °C max. at rated Irms
 Moisture Sensitivity Level 1
 ESD Classification N/A

Materials

Core Ferrite DR and RI core
 Wire Enameled copper (Class F)
 Terminal Ag/Ni/Sn
 Packaging 800 pcs. per reel

Product Dimensions



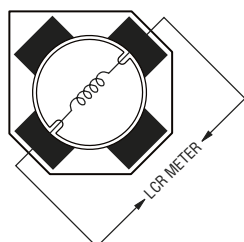
WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* 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

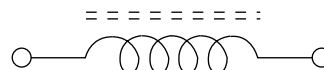
SRU3017 Series - Shielded SMD Power Inductors

BOURNS®

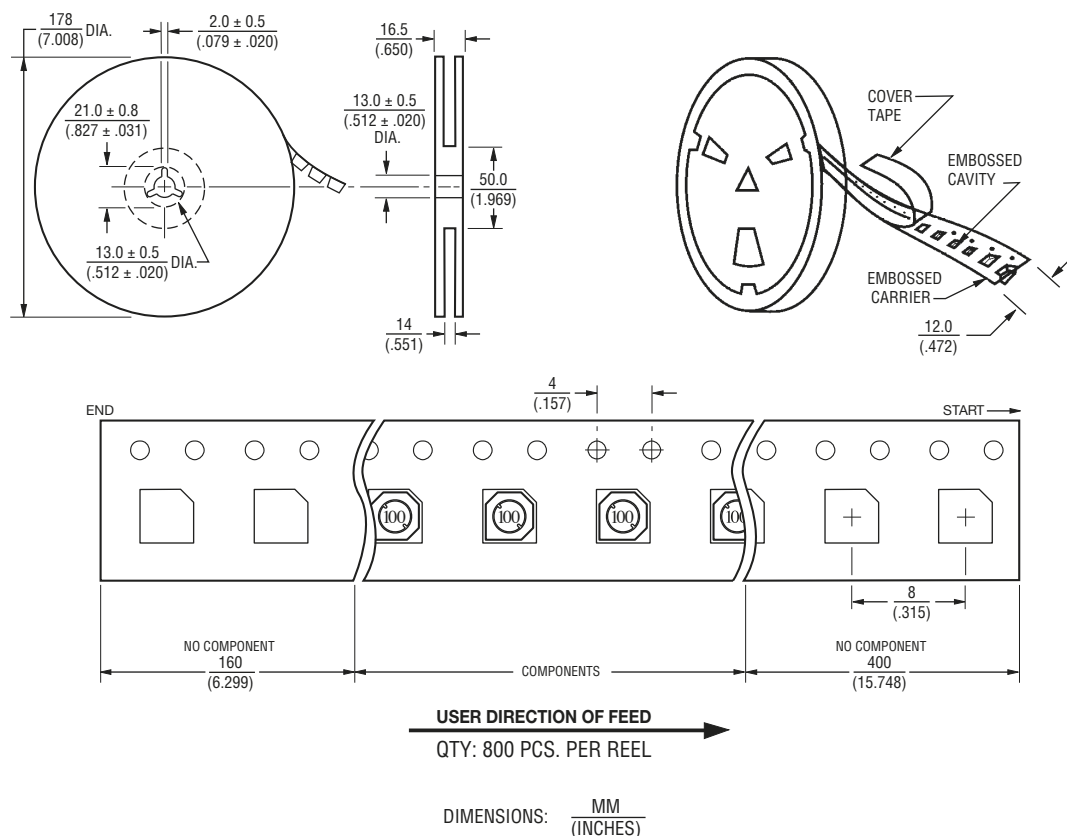
Inductor Connection



Electrical Schematic



Packaging Specifications



REV. 03/18

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