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
  - Car radios

SRU3017 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 KHz (μH)	Tol. %	Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC (mΩ)	Irms Max. (A)	Isat Typ. (A)	**K-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.

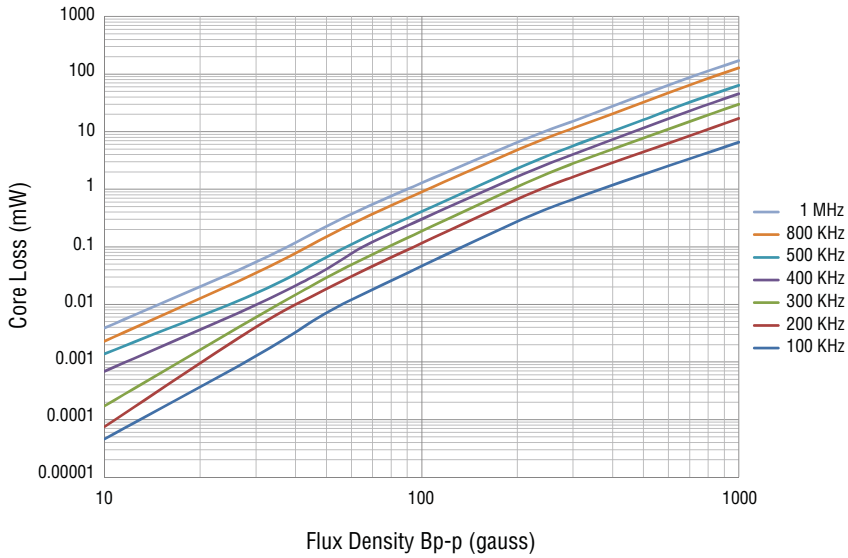
General Specifications

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
Temperature Rise
.....30 °C max. at rated Irms

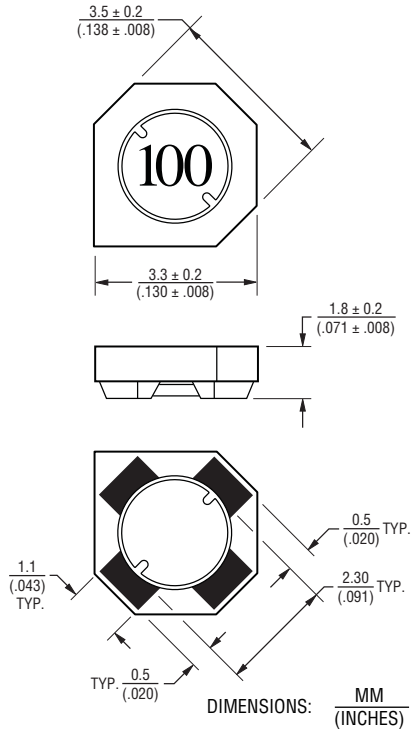
Materials

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

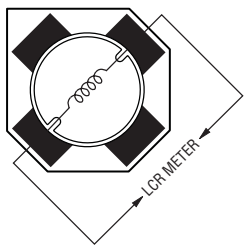
Core Loss vs. Flux Density



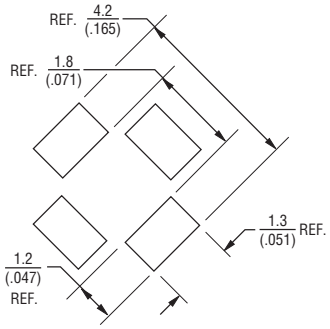
Product Dimensions



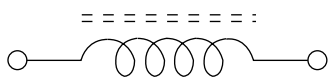
Inductor Connection



Recommended Layout

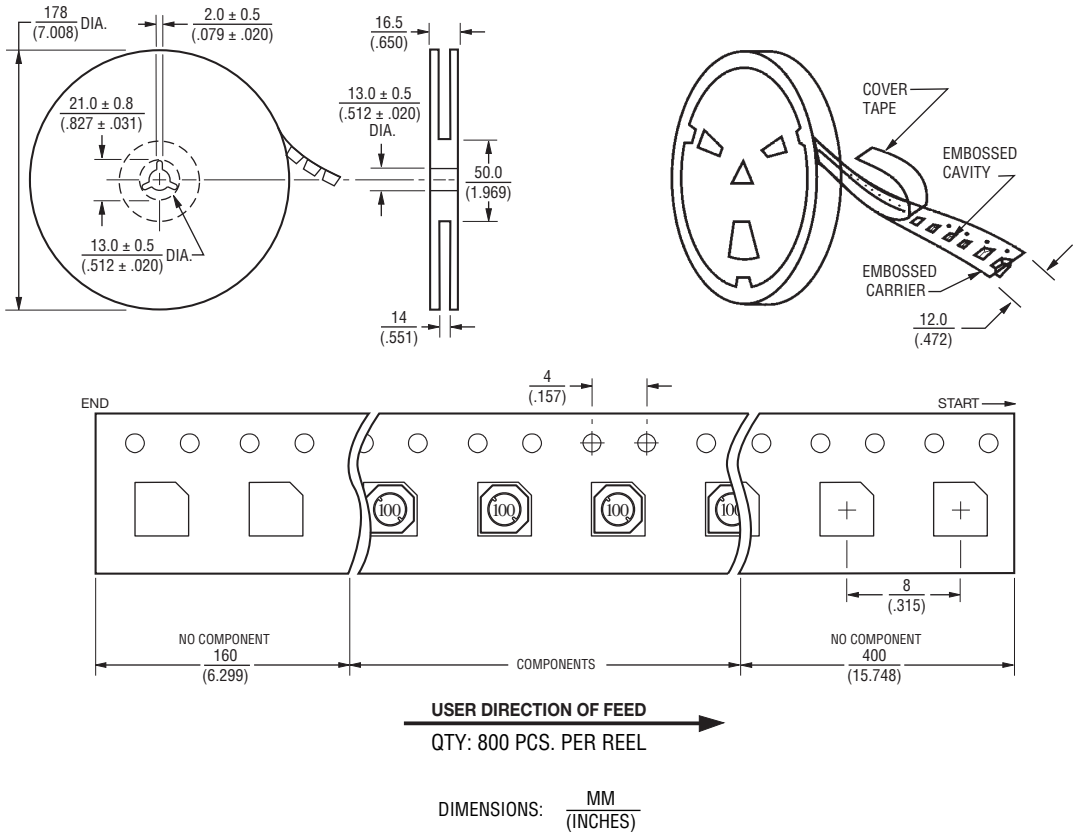


Electrical Schematic



* 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. 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.

Packaging Specifications



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REV. 01/16