



Features

- Available in E6 series
- Unit height of 2.8 mm
- Current up to 0.72 A
- RoHS compliant*

Applications

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

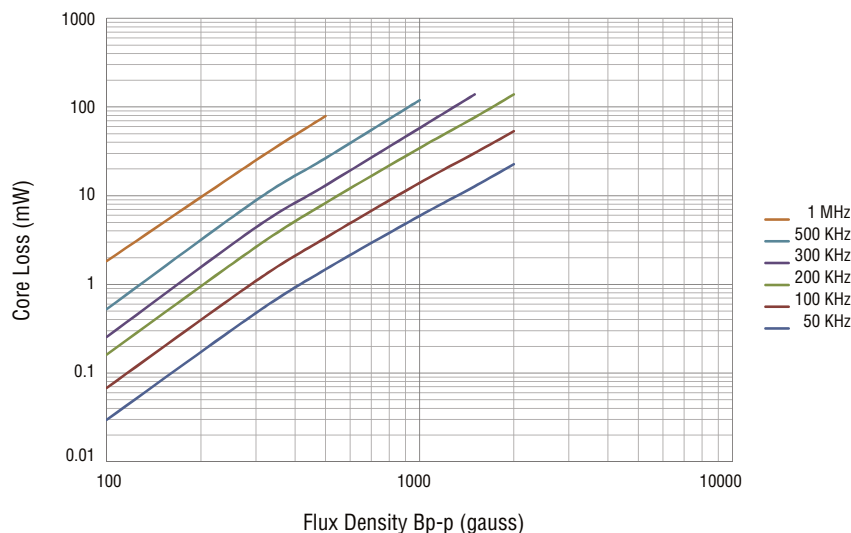
SRU3028 Series - Shielded SMD Power Inductors

Electrical Specifications

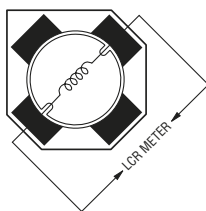
Bourns Part Number	Inductance @ 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Typ. (MHz)	RDC (mΩ)	I rms Max. (A)	I sat Typ. (A)	**K- Factor
	L (μH)	Tol. (%)							
SRU3028-100Y	10.0	±30	20	7.96	35	160	0.72	0.86	276
SRU3028-150Y	15.0	±30	18	2.52	25	230	0.66	0.72	241
SRU3028-220Y	22.0	±30	18	2.52	15	270	0.60	0.62	214
SRU3028-330Y	33.0	±30	20	2.52	10	450	0.47	0.48	180
SRU3028-470Y	47.0	±30	20	2.52	8	815	0.32	0.38	133
SRU3028-680Y	68.0	±30	20	2.52	7	1400	0.24	0.28	112
SRU3028-101Y	100.0	±30	20	0.796	5	2200	0.19	0.21	91

**K-Factor: To calculate core flux density, Bp-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.

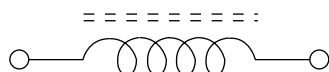
Core Loss vs. Flux Density



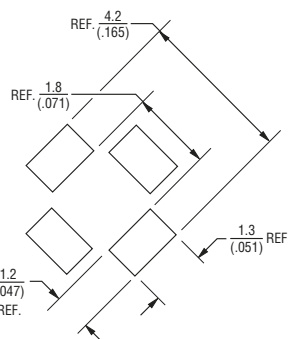
Inductor Connection



Electrical Schematic



Recommended Layout



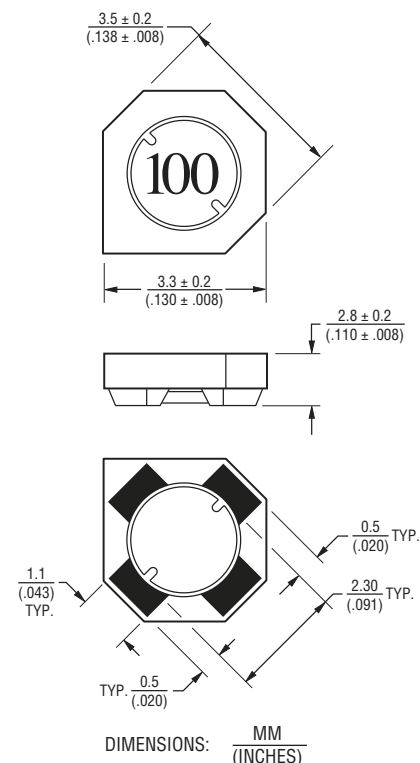
General Specifications

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.
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

Materials

Core Ferrite DR and RI core
 Wire Enameled copper (Class F)
 Terminal Ag/Ni/Sn
 Rated Current Ind. drop 35 % typ. at Isat
 Temperature Rise 40 °C max. at rated Irms
 Packaging 600 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.
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