

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

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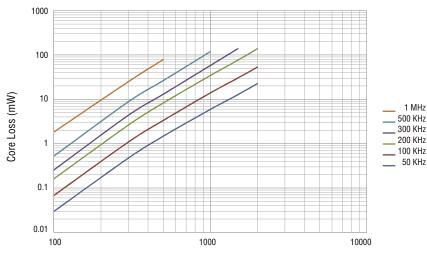
SRU3028 Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part Number	Inductance @ 100 KHz		Q	Test	SRF	RDC	l rms Max.	l sat	
	L (µH)	Tol. (%)	Ref.	Freq. (MHz)	Typ. (MHz)	(m Ω)	(A)	Тур. (А)	**K- Factor
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 x L(μH) x ∆ 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)

Inductor Connection

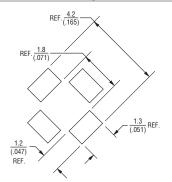


Electrical Schematic



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

Recommended Layout

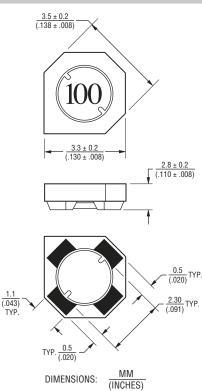


General Specifications

Reflow Soldering	0.1 V 230 °C, 50 sec. max.
Operating Temper	rature
	40 °C to +125 °C
(Tem	perature rise included)
Storage Temperat	ure
	40 °C to +125 °C
Resistance to Sol	dering Heat
	+260 °C for 10 sec.
Moisture Sensitivi	ty Level1
ESD Classification	n (HBM) N/A
Materials	
Coro	Forrito DD and DI aara

	Ferrite DR and RI core meled copper (Class F)
Terminal	Ag/Ni/Sn
Rated Current	
Inc	l. drop 35 % typ. at Isat
Temperature Rise	;
4	0 °C max. at rated Irms
Packaging	600 pcs. per reel

Product Dimensions

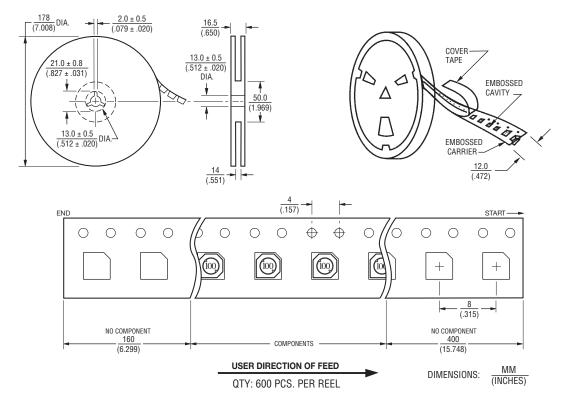


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

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Packaging Specifications



REV. 03/18

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