

Features

- Available in E6 series
- Unit height of 2.8 mm
- Current up to 7 A
- RoHS compliant*

Applications

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

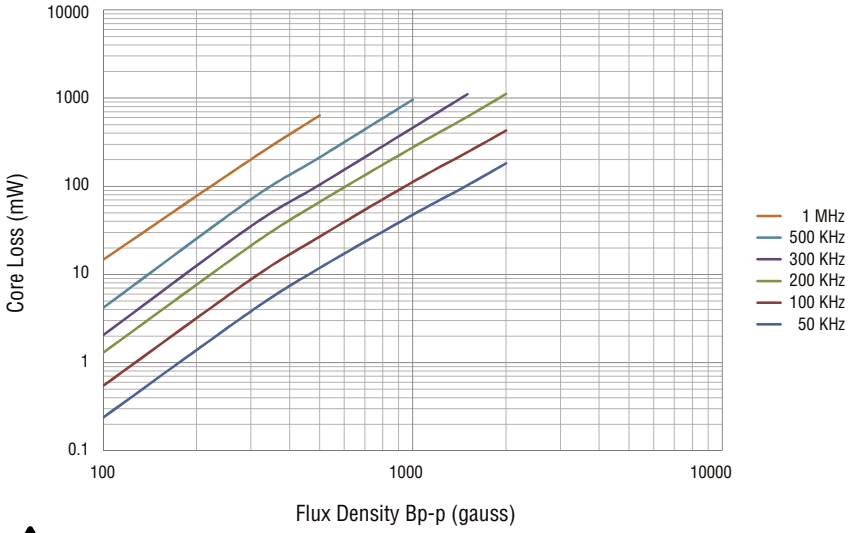
SRU1028 Series - Shielded SMD Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Min. (MHz)	RDC (mΩ)	I rms Max. (A)	I sat Typ. (A)	**K-Factor
	L (μH)	Tol. (%)							
SRU1028-1R0Y	1.0	±30	14	7.96	100.0	4.9	7.00	8.00	315
SRU1028-1R5Y	1.5	±30	12	7.96	80.0	7.3	6.50	6.50	245
SRU1028-2R2Y	2.2	±30	12	7.96	65.0	11	5.30	4.80	200
SRU1028-3R3Y	3.3	±30	14	7.96	55.0	15	4.60	4.30	169
SRU1028-4R7Y	4.7	±30	12	7.96	40.0	16	4.50	3.80	147
SRU1028-6R8Y	6.8	±30	12	7.96	30.0	15	3.50	3.00	130
SRU1028-8R2Y	8.2	±30	12	7.96	28.0	28	3.30	2.70	116
SRU1028-100Y	10.0	±30	20	7.96	25.0	40	2.80	2.40	105
SRU1028-120Y	12.0	±30	22	2.52	23.0	70	2.40	2.30	93
SRU1028-150Y	15.0	±30	26	2.52	22.0	69	2.00	2.00	82
SRU1028-220Y	22.0	±30	26	2.52	16.0	104	1.60	1.40	71
SRU1028-330Y	33.0	±30	24	2.52	12.0	139	1.25	1.20	60
SRU1028-470Y	47.0	±30	20	2.52	11.0	167	1.30	1.10	49
SRU1028-560Y	56.0	±30	22	2.52	10.0	208	1.10	1.00	43
SRU1028-680Y	68.0	±30	20	2.52	9.0	232	1.00	0.90	39
SRU1028-820Y	82.0	±30	20	2.52	8.0	323	0.90	0.85	36
SRU1028-101Y	100.0	±30	20	0.796	7.0	365	0.85	0.80	33
SRU1028-121Y	120.0	±30	18	0.796	6.0	428	0.65	0.70	31
SRU1028-151Y	150.0	±30	18	0.796	5.0	518	0.70	0.65	27

**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



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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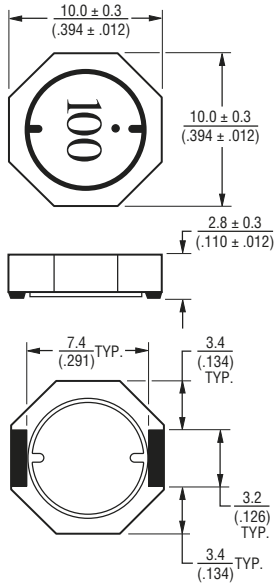
General Specifications

Test Voltage ..... 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

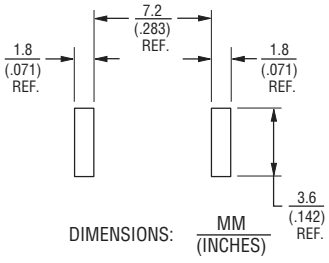
Materials

Core ..... Ferrite DR and RI core
Wire ..... Enameled copper
Terminal ..... Ag/Ni/Sn
Rated Current
..... Ind. drop 35 % typ. at Isat
Temperature Rise
..... 40 °C max. at rated Irms
Packaging ..... 1000 pcs. per reel

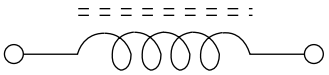
Product Dimensions



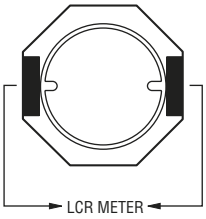
Recommended Layout



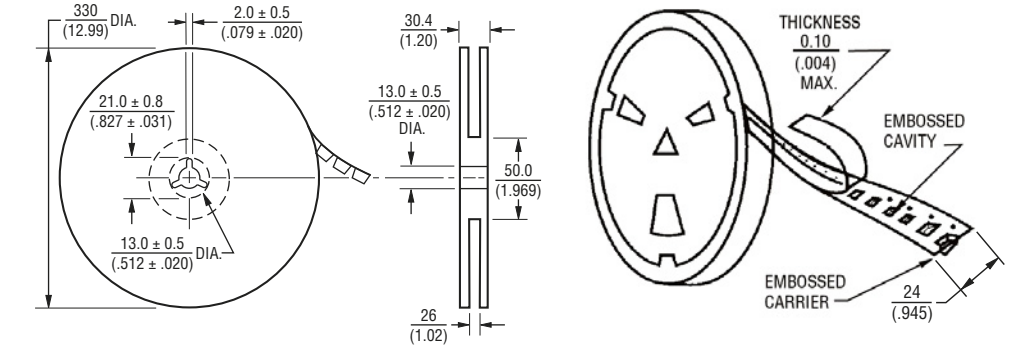
Electrical Schematic

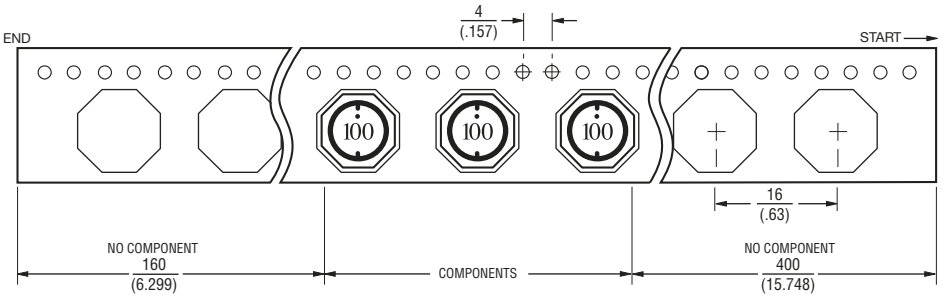


Inductor Connection



Packaging Specifications





USER DIRECTION OF FEED

QTY: 1000 PCS. PER REEL

DIMENSIONS: MM / (INCHES)

REV. 03/18

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