



Features

- Available in E6 series
- Unit height of 2.8 mm
- Current up to 3.5 A
- RoHS compliant*

Applications

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

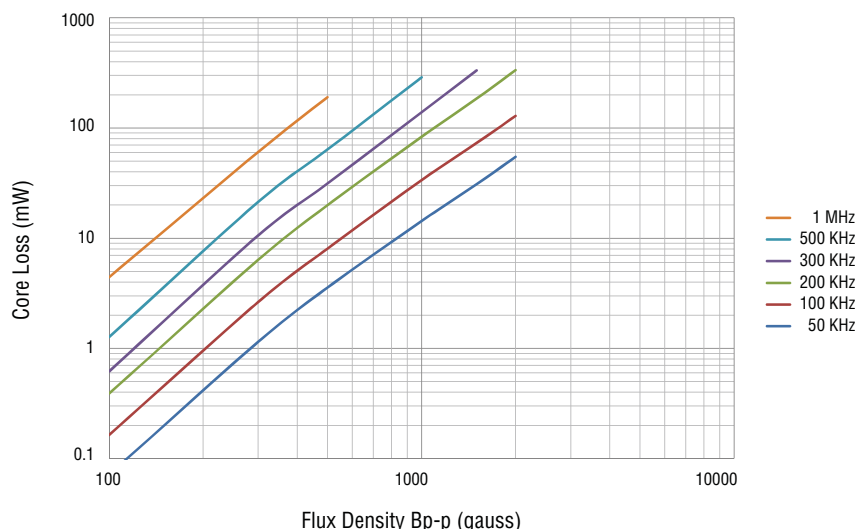
SRU5028 Series - Shielded SMD Power Inductors

Electrical Specifications

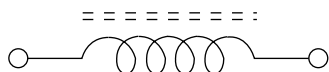
Bourns Part Number	Inductance @ 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Min. (MHz)	RDC (mΩ)	I rms Max. (A)	I sat Typ. (A)	**K- Factor
	L (μH)	Tol. (%)							
SRU5028-1R2Y	1.2	±30	10	7.96	200	16.8	3.50	3.40	453
SRU5028-2R2Y	2.2	±30	10	7.96	130	21.0	3.20	2.50	313
SRU5028-3R3Y	3.3	±30	10	7.96	90	24.0	2.80	2.10	272
SRU5028-4R7Y	4.7	±30	9	7.96	50	32.0	2.20	1.85	214
SRU5028-6R8Y	6.8	±30	10	7.96	55	42.0	2.00	1.55	177
SRU5028-100Y	10.0	±30	18	2.52	25	63.0	1.80	1.40	151
SRU5028-150Y	15.0	±30	18	2.52	23	108.0	1.10	1.00	123
SRU5028-220Y	22.0	±30	15	2.52	18	162.0	0.95	0.85	95
SRU5028-330Y	33.0	±30	15	2.52	16	203.0	0.80	0.68	87
SRU5028-470Y	47.0	±30	13	2.52	13	285.0	0.70	0.62	69
SRU5028-680Y	68.0	±30	13	2.52	10	450.0	0.56	0.46	59
SRU5028-101Y	100.0	±30	15	0.796	8	625.0	0.47	0.42	50

**K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μH) x ΔI (peak-to-peak ripple current, A), determine core loss from *Core Loss* vs. *Flux Density* plot.

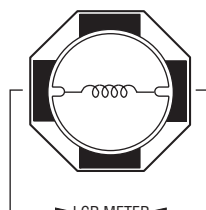
Core Loss vs. Flux Density



Electrical Schematic



Inductor Connection



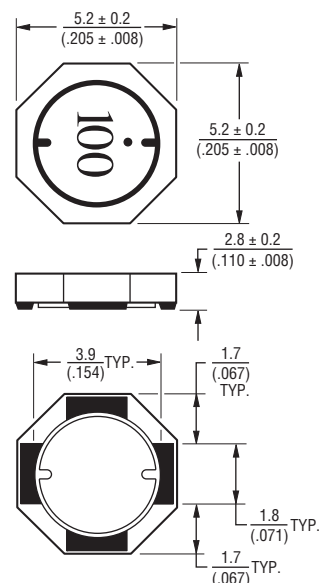
General Specifications

Test Voltage.....0.1 V
 Reflow Soldering .. 230 °C, 50 sec. max.
 Operating Temp.-40 °C to +125 °C
 (Temperature rise included)
 Storage Temp.-40 °C to +125 °C
 Resistance to Soldering Heat
 260 °C for 10 sec.

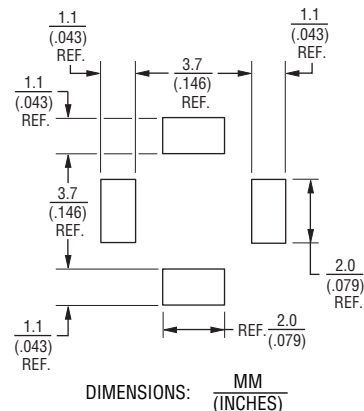
Materials

Core.....Ferrite DR and RI core
 Wire.....Enameled copper
 Terminal.....Ag/Ni/Sn
 Rated Current..Ind. drop 35 % typ. at Isat
 Temp. Rise.....40 °C max. at rated Irms
 Packaging.....600 pcs. per reel

Product Dimensions



Recommended Layout

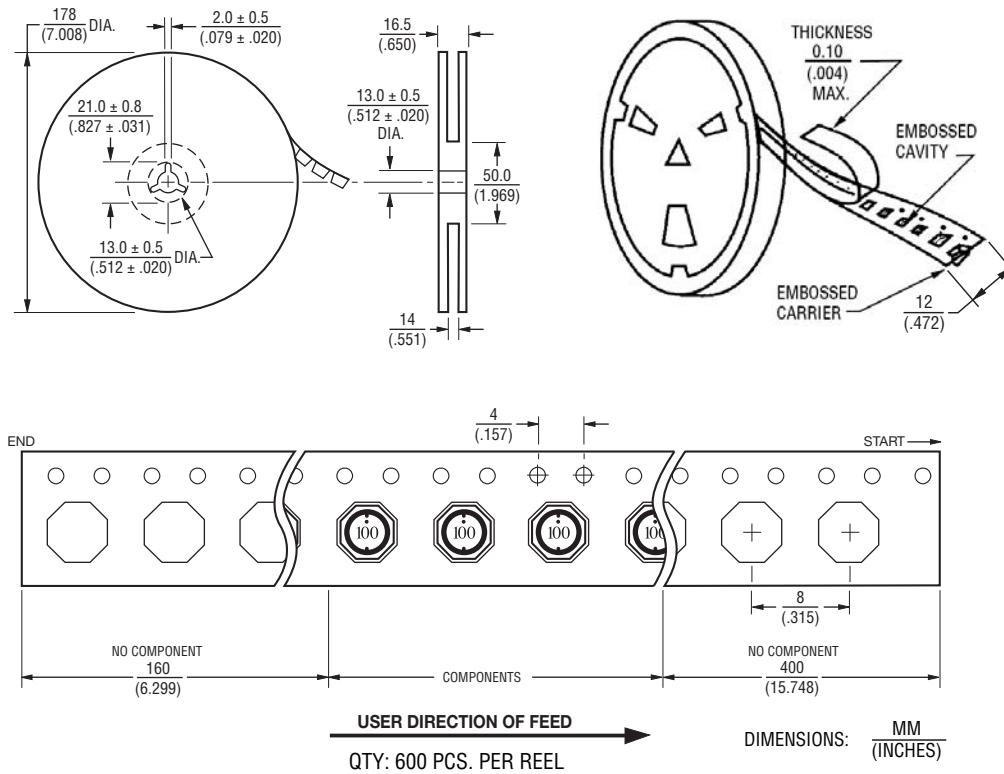


* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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BOURNS®

Packaging Specifications



REV. 11/13

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