

### 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

## SOOKINS

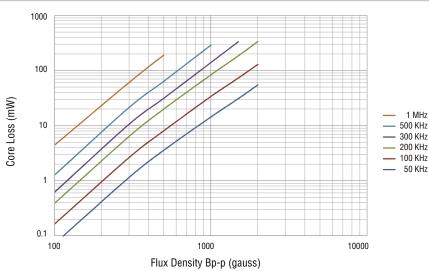
## SRU5028 Series - Shielded SMD Power Inductors

#### **Electrical Specifications**

Bourns Part Number	Inductance @ 100 KHz		Q Ref.	Test Freq.	SRF Min.	RDC	l rms Max.	l sat Typ.	**K-
	L (µH)	Tol. (%)	ner.	(MHz)		(mΩ)	(A)	(A)	Factor
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

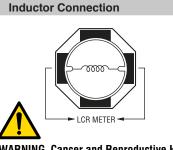
\*\*K-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μH) x Δ I (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

#### Core Loss vs. Flux Density



**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. 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



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

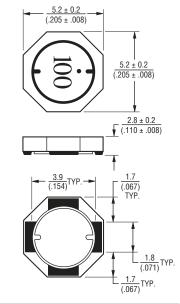
#### **General Specifications**

Test Voltage0.1 V	V
Reflow Soldering 230 °C, 50 sec. max	ί.
Operating Temp40 °C to +125 °C	С
(Temperature rise included	)
Storage Temp40 °C to +125 °C	С
Resistance to Soldering Heat	
	;.
Moisture Sensitivity Level	
ESD Classification (HBM) N//	4

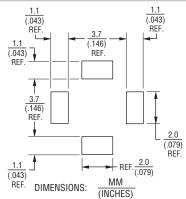
#### **Materials**

Core	Ferrite DR and RI core
Wire	Enameled copper
Terminal	Ag/Ni/Sn
Rated CurrentInc	d. drop 35 % typ. at Isat
Temp. Rise40	0 °C max. at rated Irms
Packaging	600 pcs. per reel

#### **Product Dimensions**



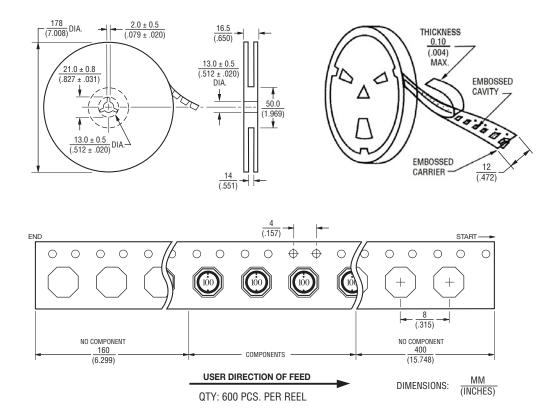
**Recommended Layout** 



# SRU5028 Series - Shielded SMD Power Inductors

### BOURNS

#### **Packaging Specifications**



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