

### Features

- Available in E6 series
- Unit height of 4.3 mm
- Current up to 5.4 A
- RoHS compliant\*

## **Applications**

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

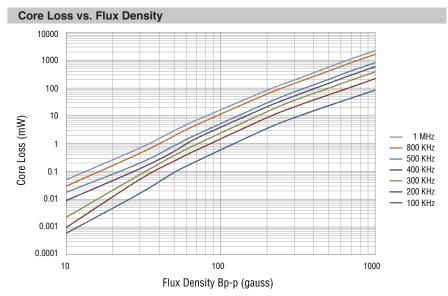
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# SRU8043 Series - Shielded SMD Power Inductors

#### **Electrical Specifications**

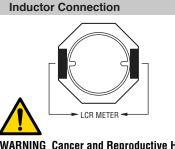
	Inductance 100 KHz			Test	SRF		Irms	Isat	
Bourns Part No.	(µH)	Tol. %	Q Ref.	Freq. (MHz)	Min. (MHz)	RDC (mΩ)	Max. (A)	Typ. (A)	**K- Factor
SRU8043-2R2Y	2.2	± 30	15	7.96	65.0	11.2	5.40	5.20	250
SRU8043-3R9Y	3.9	± 30	15	7.96	42.0	14.6	4.80	4.00	191
SRU8043-4R7Y	4.7	± 30	13	7.96	36.0	17.0	4.60	3.60	171
SRU8043-6R8Y	6.8	± 30	12	7.96	30.0	22.4	3.80	3.10	141
SRU8043-100Y	10	± 30	27	2.52	20.0	30.0	3.50	2.70	120
SRU8043-120Y	12	± 30	15	2.52	15.0	39.0	2.80	2.20	110
SRU8043-150Y	15	± 30	26	2.52	15.0	46.0	2.70	2.00	98
SRU8043-180Y	18	± 30	15	2.52	15.0	62.0	2.30	1.70	87
SRU8043-220Y	22	± 30	24	2.52	12.0	72.5	2.20	1.70	79
SRU8043-270Y	27	±30	17	2.52	12.0	84.0	1.80	1.55	73
SRU8043-330Y	33	± 30	21	2.52	11.0	100.0	1.70	1.40	66
SRU8043-470Y	47	±30	21	2.52	9.0	120.0	1.50	1.20	55
SRU8043-680Y	68	±30	20	2.52	7.0	192.0	1.20	1.00	44
SRU8043-101Y	100	±30	50	0.796	6.0	287.0	1.00	0.80	38

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



#### **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**

.....-40 °C to +125 °C (Temperature rise included) Storage Temperature .. -40 °C to +125 °C Resistance to Soldering Heat

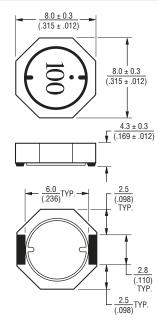
Moisture Sensitivity Level1
ESD Classification (HBM)N/A

#### Materials

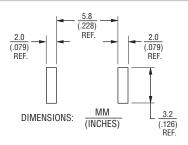
Core	Ferrite DR and RI core
Wire	Enameled copper
Terminal	Ag/Ni/Sn
Rated Current	C C

.....Ind. drop 35 % typ. at Isat Temperature Rise

#### **Product Dimensions**



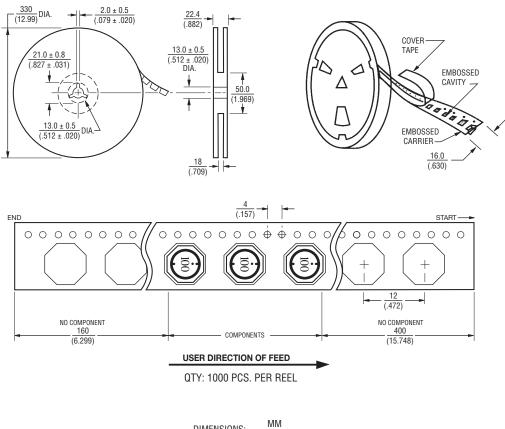
#### **Recommended Layout**



## **SRU8043 Series - Shielded SMD Power Inductors**

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#### **Packaging Specifications**



DIMENSIONS: (INCHES)

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