

### **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

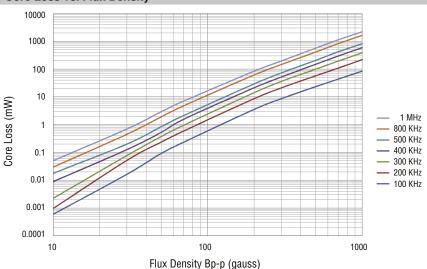
# **SRU8043 Series - Shielded SMD Power Inductors**

#### **Electrical Specifications**

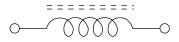
	Inductance 100 KHz			Test	SRF		Irms	Isat	
Bourns Part No.	(μH)	Tol. %	Q Ref.	Freq. (MHz)	Min. (MHz)	RDC (mΩ)	Max. (A)	Typ. (A)	**K- Factor
SRU8043-2R2Y	2.2	± 30	15	7.96	65.0	11.2	5.40	5.20	250
SRU8043-3R9Y	3.9	± 30	15	7.96	42.0	14.6	4.80	4.00	191
SRU8043-4R7Y	4.7	± 30	13	7.96	36.0	17.0	4.60	3.60	171
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

<sup>\*\*</sup>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



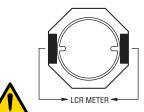
### **Electrical Schematic**



\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

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## **Inductor Connection**



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

# **General Specifications**

Test Voltage ...... 1 V Reflow Soldering .. 230 °C, 50 sec. max. **Operating Temperature** 

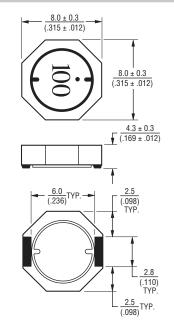
.....-40 °C to +125 °C (Temperature rise included) Storage Temperature .. -40 °C to +125 °C Resistance to Soldering Heat

......260 °C for 10 sec. Moisture Sensitivity Level......1 ESD Classification (HBM).....N/A

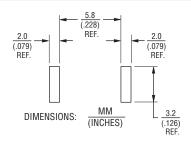
### **Materials**

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

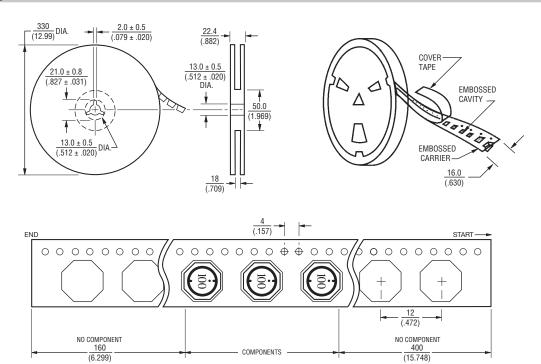
#### **Product Dimensions**



### **Recommended Layout**



## **Packaging Specifications**



DIMENSIONS: MM (INCHES)

QTY: 1000 PCS. PER REEL

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