



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

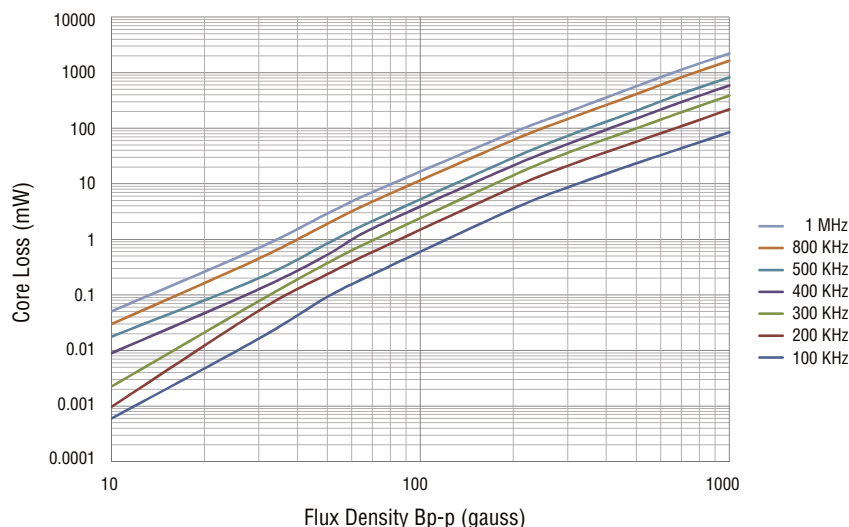
SRU8043 Series - Shielded SMD Power Inductors

Electrical Specifications

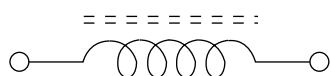
Bourns Part No.	Inductance 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Min. (MHz)	RDC (mΩ)	I _{rms} Max. (A)	Isat Typ. (A)	**K- Factor
	(μH)	Tol. %							
SRU8043-2R2Y	2.2	± 30	15	7.96	65.0	11.2	5.40	5.20	250
SRU8043-3R9Y	3.9	± 30	15	7.96	42.0	14.6	4.80	4.00	191
SRU8043-4R7Y	4.7	± 30	13	7.96	36.0	17.0	4.60	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, B_p -p (gauss) = $K \times L(\mu H) \times \Delta I$ (peak-to-peak ripple current, A), determine core loss from *Core Loss vs. Flux Density* plot.

Core Loss vs. Flux Density



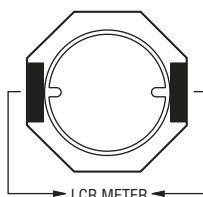
Electrical Schematic



* 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

Inductor Connection



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

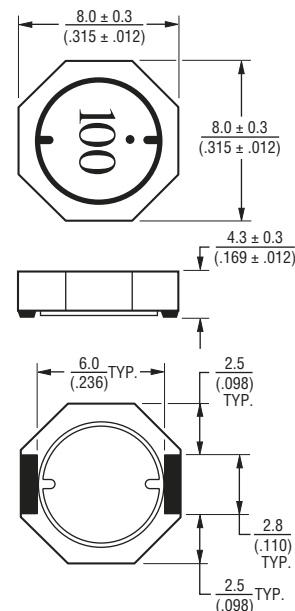
General Specifications

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

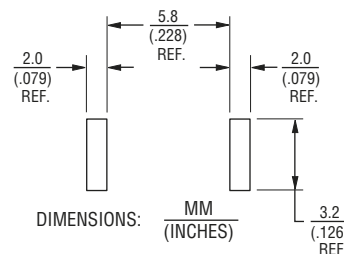
Materials

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 I_{rms}
Packaging..... 1000 pcs. per reel

Product Dimensions



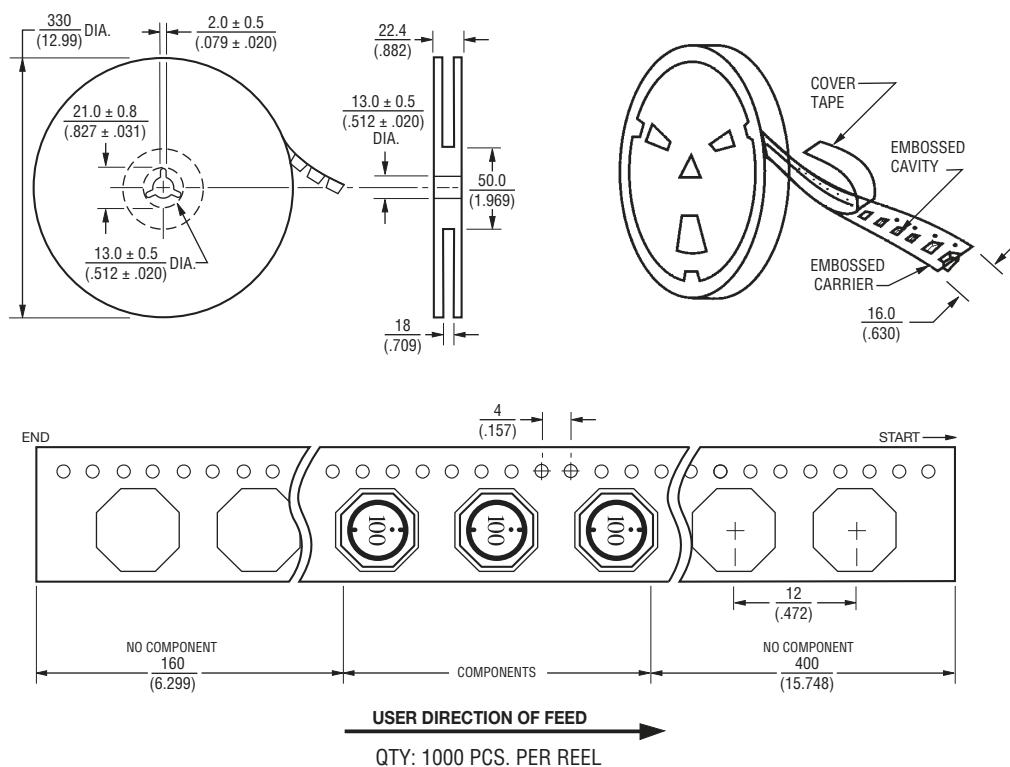
Recommended Layout



SRU8043 Series - Shielded SMD Power Inductors

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Packaging Specifications



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

REV. 03/18

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