

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

22

27

33

47

68

± 30

±30

± 30

±30

±30

24

17

21

21

20

SRU8043-220Y

SRU8043-270Y

SRU8043-330Y

SRU8043-470Y

SRU8043-680Y

Electrical Specifications									Gen	
	Inductance 100 KHz			Test	SRF		Irms	Isat		Test Ve Reflow
Bourns Part No.	(µH)	Tol. %	Q Ref.	Freq. (MHz)	Min. (MHz)	RDC (mΩ)	Max. (A)	Тур. (А)	**K- Factor	Opera:
SRU8043-2R2Y	2.2	± 30	15	7.96	65.0	11.2	5.40	5.20	250	0
SRU8043-3R9Y	3.9	± 30	15	7.96	42.0	14.6	4.80	4.00	191	Storag Resist
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	Moistu
SRU8043-100Y	10	± 30	27	2.52	20.0	30.0	3.50	2.70	120	ESD C
SRU8043-120Y	12	± 30	15	2.52	15.0	39.0	2.80	2.20	110	Mate
SRU8043-150Y	15	± 30	26	2.52	15.0	46.0	2.70	2.00	98	Core
SRU8043-180Y	18	± 30	15	2.52	15.0	62.0	2.30	1.70	87	Wire

12.0

12.0

11.0

9.0

7.0

72.5

84.0

100.0

120.0

192.0

2.20

1.80

1.70

1.50

1.20

1.70

1.55

1.40

1.20

1.00

79

73

66

55

44

SRU8043-101Y 100 ±30 50 0.796 6.0 287.0 1.00 0.80 38 **Κ-Factor: To calculate core flux density, Bp-p (gauss) = K x L(μH) x Δ I (peak-to-peak ripple current, A),

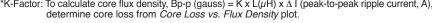
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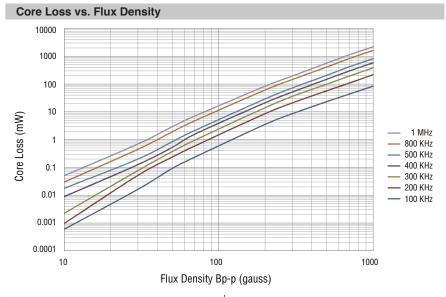
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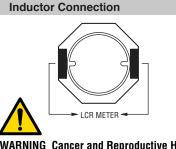
2.52





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

neral Specifications

Voltage1 V w Soldering .. 230 °C, 50 sec. max. ating Temperature

.....-40 °C to +125 °C (Temperature rise included) ge Temperature .. -40 °C to +125 °C tance to Soldering Heat

Moisture Sensitivity Level1
ESD Classification (HBM)N/A

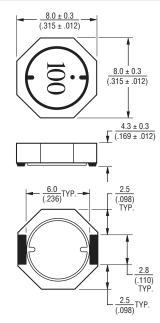
terials

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

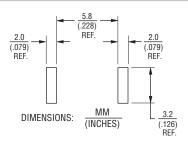
.....Ind. drop 35 % typ. at Isat **Temperature Rise**

Packaging...... 1000 pcs. per reel

Product Dimensions



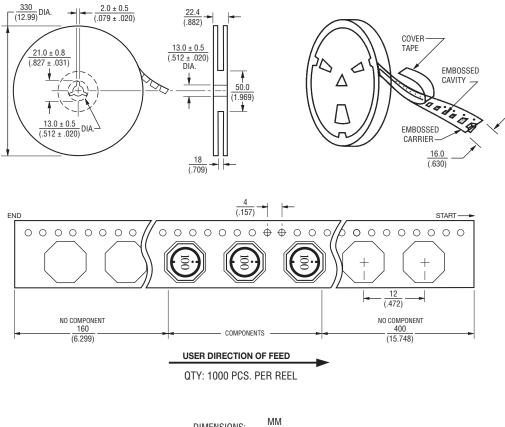
Recommended Layout



SRU8043 Series - Shielded SMD Power Inductors

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Packaging Specifications



DIMENSIONS: (INCHES)

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