



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
 - Car radios

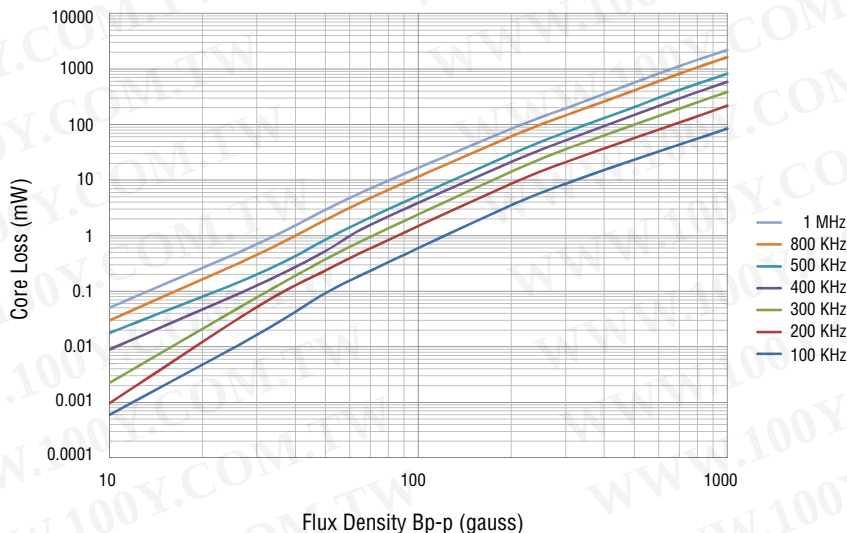
SRU8043 Series - Shielded SMD Power Inductors

Electrical Specifications

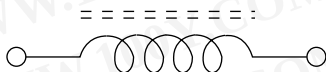
Bourns Part No.	Inductance 100 KHz		Q Ref.	Test Freq. (MHz)	SRF Min. (MHz)	RDC (mΩ)	Irms Max. (A)	Isat Typ. (A)	**K-Factor
	(μH)	Tol. %							
SRU8043-2R2Y	2.2	±30	15	7.96	65.0	11.2	5.40	5.20	250
SRU8043-3R9Y	3.9	±30	15	7.96	42.0	14.6	4.80	4.00	191
SRU8043-4R7Y	4.7	±30	13	7.96	36.0	17.0	4.60	3.60	171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

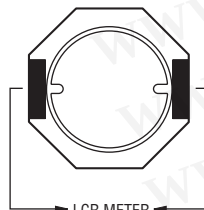


Electrical Schematic

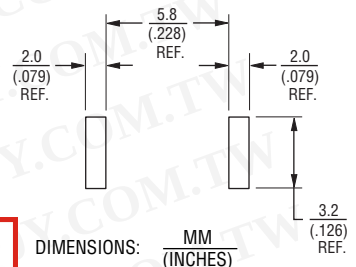


* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

Inductor Connection



Recommended Layout



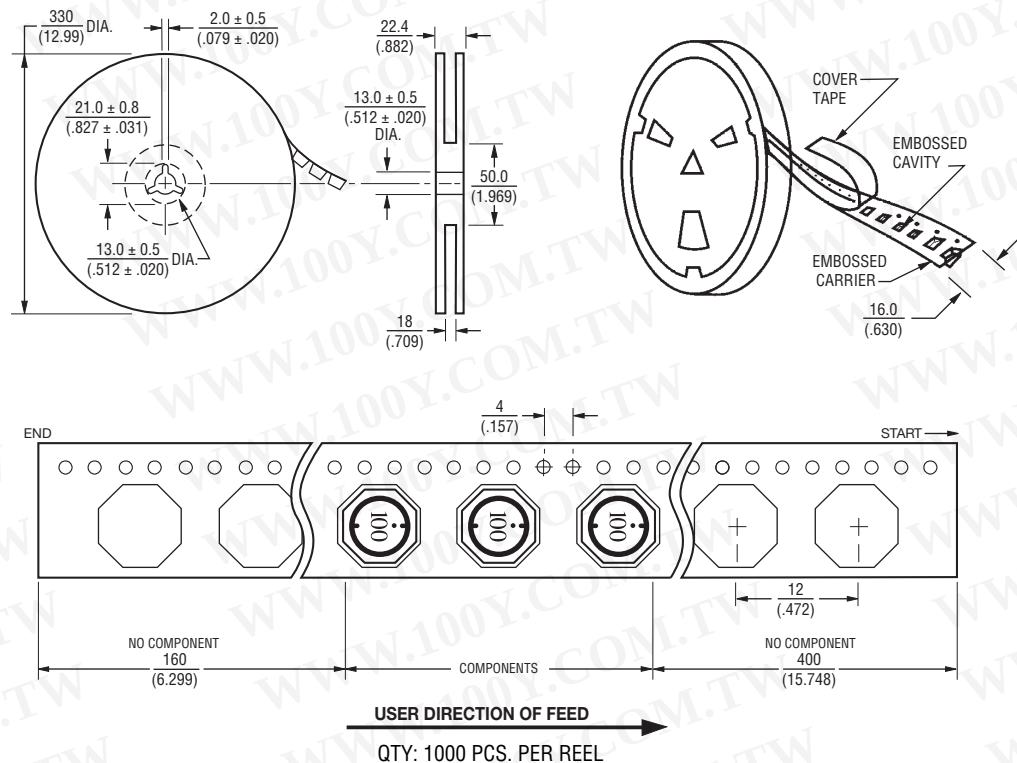
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

SRU8043 Series - Shielded SMD Power Inductors

BOURNS®

Packaging Specifications



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

BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116

EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211

The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700

www.bourns.com

REV. 11/13

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.