

Features

- Shielded construction
- Inductance range: 3.5 to 100 µH
- Rated current up to 5 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

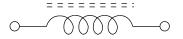
SRU8045A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

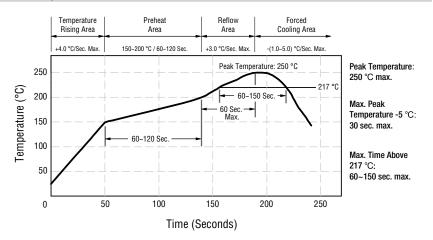
Barres	Inductance @ 100 kHz/ 0.1 V		Q (Ref.)	Test Freq.	SRF (MHz)	DCR (Ω)		l rms	1
Bourns Part Number						Тур.	Max.	(A)	I sat (A)
	L (μH)	Tol. (%)		(MHz)	Тур.	.,,	IIIUX.		
SRU8045A-3R5Y	3.5	± 30	12	7.96	45	0.0188	0.025	5.00	5.00
SRU8045A-4R7Y	4.7	± 30	10	7.96	30	0.022	0.0275	4.60	4.40
SRU8045A-6R2Y	6.2	± 30	10	7.96	23	0.0285	0.036	4.20	3.80
SRU8045A-100Y	10	± 30	16	2.52	18	0.035	0.048	3.50	3.30
SRU8045A-220Y	22	± 30	18	2.52	12	0.094	0.122	2.25	2.15
SRU8045A-330Y	33	± 30	14	2.52	8	0.118	0.15	2.00	1.80
SRU8045A-470Y	47	± 30	12	2.52	6	0.215	0.27	1.45	1.40
SRU8045A-680Y	68	± 30	8	2.52	4	0.32	0.40	1.25	1.20
SRU8045A-101Y	100	± 30	20	0.796	3	0.40	0.50	1.00	0.92

Electrical Schematic

How to Order



Soldering Profile



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

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

**Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less. 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

General Specifications

Operating Temp. -40 °C to +125 °C (Temperature rise included)
Storage Temperature .. -40 °C to +125 °C
Temperature Rise40 °C at rated Irms
Rated Current

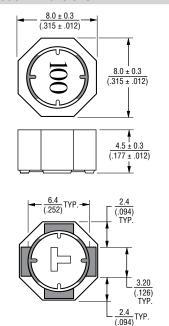
........... Inductance drops 35 % at Isat Failure In Time (FIT)24.7/109 hours Mean Time Between Failures (MTBF)

......40.4 x 10⁶ hours

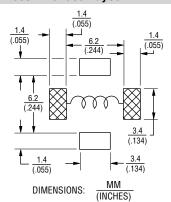
Materials

Core	Ferrite
Wire	Enameled coppe
	Sr
Packaging 1000	pcs, per 13-inch ree

Product Dimensions



Recommended Layout



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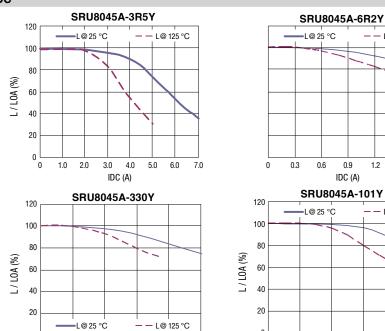
BOURNS

— L@ 125 °C

— L@ 125 °C

1.00

Inductance vs. IDC



Temperature vs. IDC

0

0.16

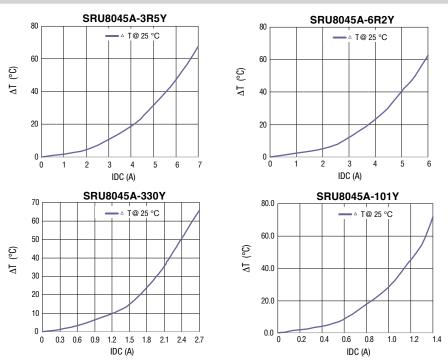
0.32

0.48

IDC (A)

0.64

0.80



0

0.20

IDC (A)

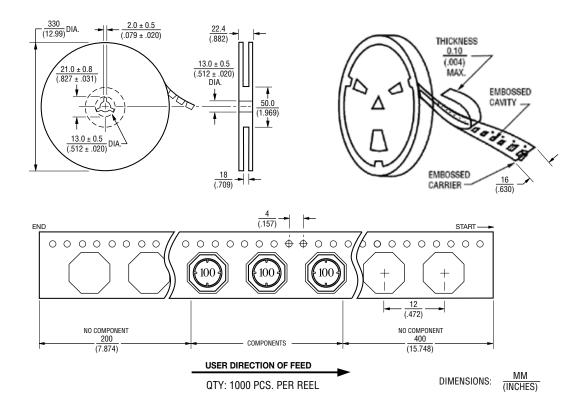
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

SRU8045A Series - Shielded Power Inductors

BOURNS®

Packaging Specifications



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07/16

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