

### **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

B	Inductance @ 100 kHz / 0.1 V		Q (Ref.)	Test Freq.	SRF (MHz)	DCR (Ω)		I rms	1 1
Bourns Part Number						Тур.	Max.	(A)	I sat (A)
	L (μH)	Tol. (%)		(MHz)	Тур.	.,р.	IIIGA.		
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**

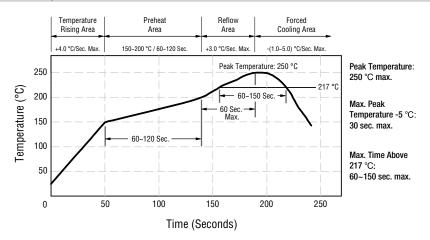
### **How to Order**







### **Soldering Profile**



# **General Specifications**

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

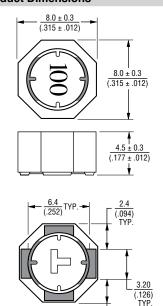
..... Inductance drops 35 % at Isat Failure In Time (FIT)......24.7/109 hours Mean Time Between Failures (MTBF)

......40.4 x 10<sup>6</sup> hours

### **Materials**

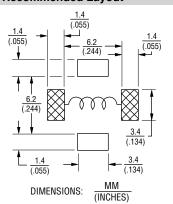
Core	Ferrite
Wire	Enameled copper
Terminal Finish	Sr
Packaging 1000	pcs. per 13-inch ree

### **Product Dimensions**



 $\frac{2.4}{(.094)}$ TYP.

## **Recommended Layout**





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

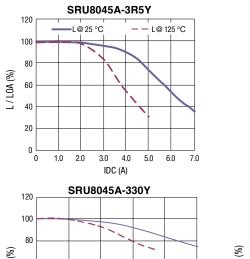
RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

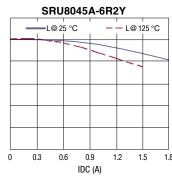
Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less. Specifications are subject to change without notice. Users should verify 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

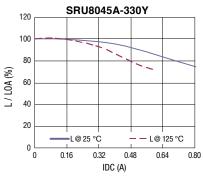
# **SRU8045A Series - Shielded Power Inductors**

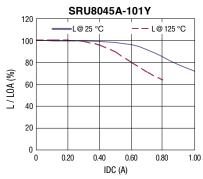
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### Inductance vs. IDC

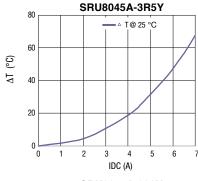


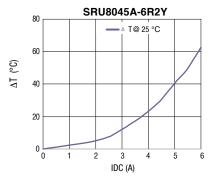


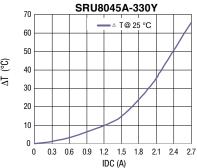


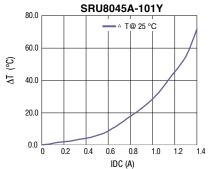


### Temperature vs. IDC









Specifications are subject to change without notice.

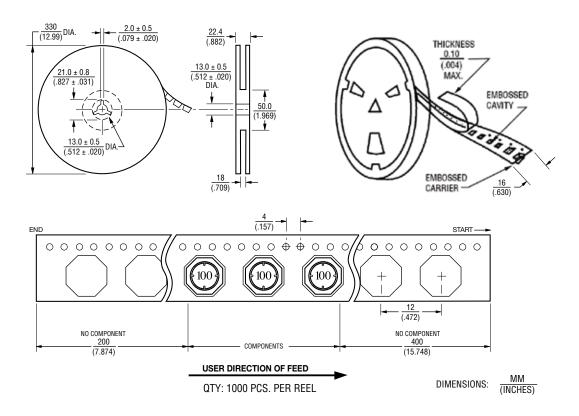
Users should verify actual device performance in their specific applications.

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# **SRU8045A Series - Shielded Power Inductors**

## **BOURNS**®

### **Packaging Specifications**



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OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
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- Входной контроль качества.
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Конструкторский отдел помогает осуществить:

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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