



Features

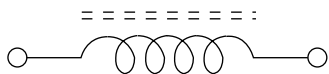
- Shielded construction
- Inductance range: 3.5 to 100 μ H
- Rated current up to 5 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRU8045A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 kHz / 0.1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω)		I rms (A)	I sat (A)
	L (μ H)	Tol. (%)				Typ.	Max.		
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

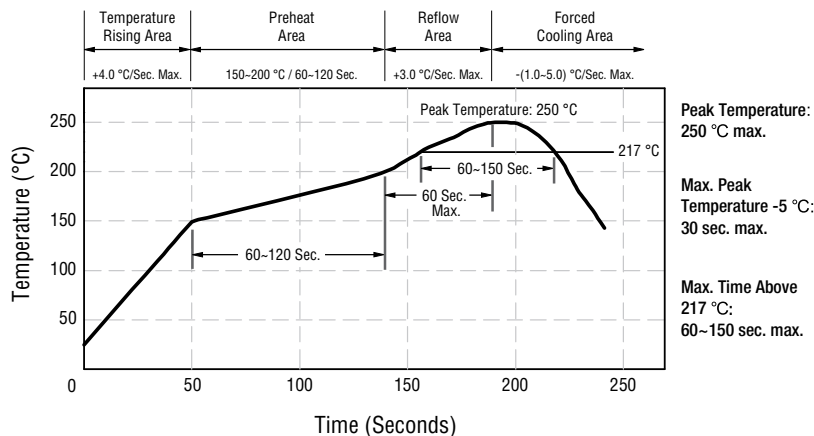
Electrical Schematic



How to Order

Model _____ **SRU8045A - 100Y**
 Value Code (see table) _____

Soldering Profile



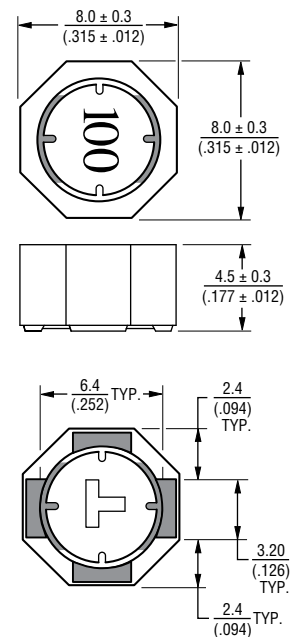
General Specifications

Operating Temp. -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature ... -40 °C to +125 °C
 Temperature Rise 40 °C at rated I rms
 Rated Current
 Inductance drops 35 % at I sat
 Failure In Time (FIT) 24.7/10⁹ hours
 Mean Time Between Failures (MTBF)
 40.4 x 10⁶ hours

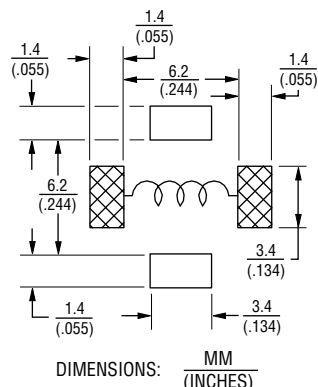
Materials

Core Ferrite
 Wire Enamelled copper
 Terminal Finish Sn
 Packaging 1000 pcs. per 13-inch reel

Product Dimensions



Recommended Layout



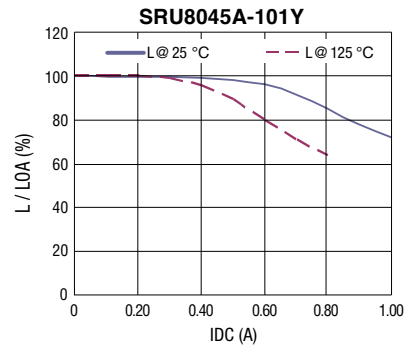
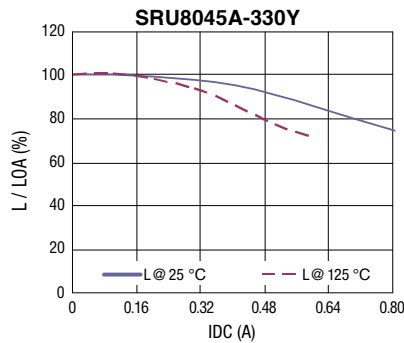
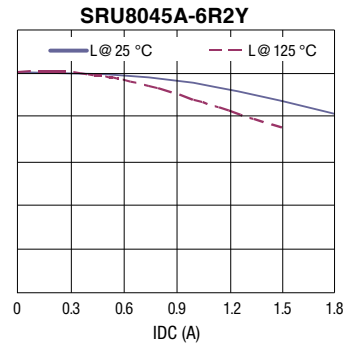
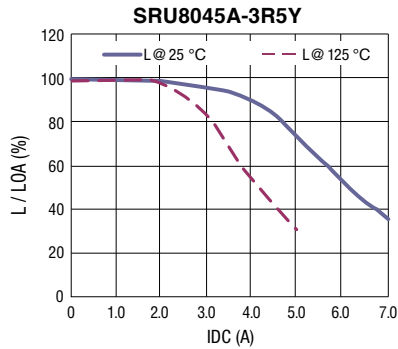
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* 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 (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.
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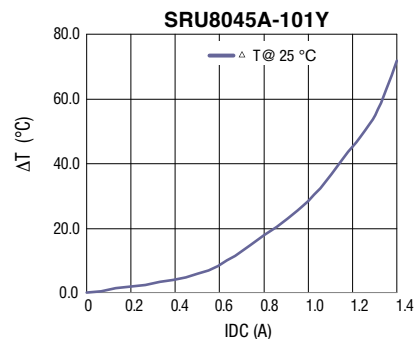
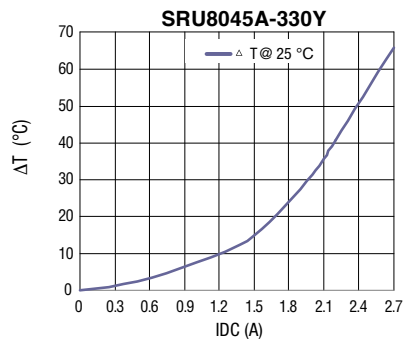
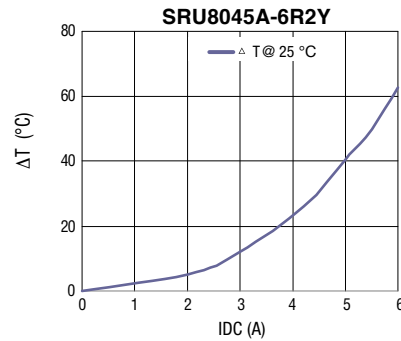
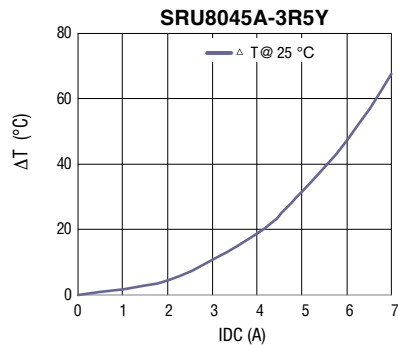
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Inductance vs. IDC



Temperature vs. IDC



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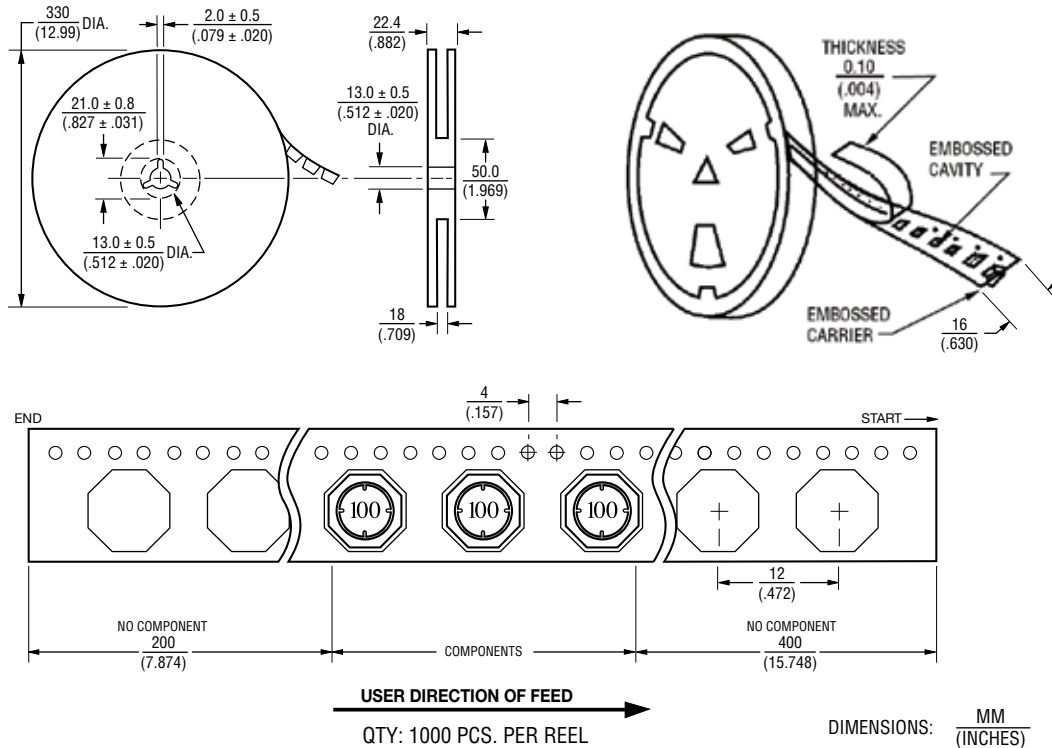
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SRU8045A Series - Shielded Power Inductors

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Packaging Specifications



BOURNS®

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