THE DATASHEET OF

SRU8028A-101Y

Features

- Shielded construction
- Inductance range: 2.5 to 100 µH
- Heating current up to 4.5 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRU8028A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω) Max.	I rms (A)	I sat (A)
	L (µH)	Tol. (%)						
SRU8028A-2R5Y	2.5	±30	15	7.96	65	0.018	4.5	4.2
SRU8028A-3R3Y	3.3	±30	12	7.96	60	0.023	3.6	3.5
SRU8028A-4R7Y	4.7	±30	15	7.96	50	0.026	3.7	3.2
SRU8028A-6R8Y	6.8	±30	13	7.96	40	0.045	2.8	2.5
SRU8028A-100Y	10	±30	22	2.52	35	0.057	2.6	2.2
SRU8028A-150Y	15	±30	20	2.52	25	0.085	2.0	1.7
SRU8028A-220Y	22	±30	22	2.52	20	0.13	1.6	1.5
SRU8028A-330Y	33	±30	20	2.52	15	0.185	1.3	1.1
SRU8028A-470Y	47	±30	14	2.52	12	0.23	1.2	1.0
SRU8028A-680Y	68	±30	23	2.52	9	0.39	0.85	0.8
SRU8028A-101Y	100	±30	20	0.796	8	0.50	0.75	0.7

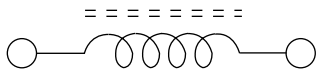
How to Order

SRU8028A - 100Y

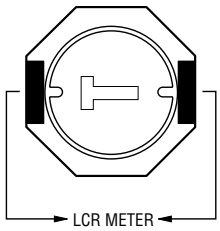
Model

Value Code (see table)

Electrical Schematic



Inductor Connection



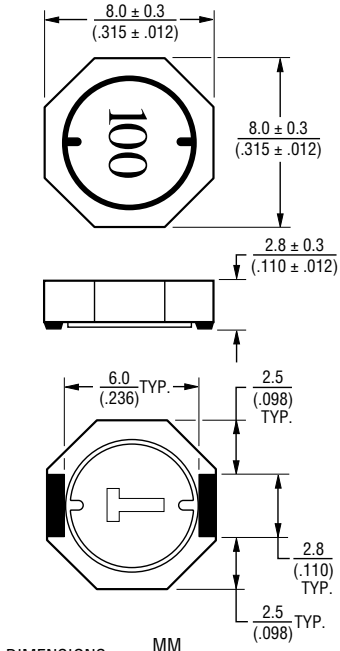
General Specifications

Operating Temperature .....-40 °C to +125 °C
(Temperature rise included)
Storage Temperature .....-40 °C to +125 °C
Temperature Rise .....40 °C typ. at rated I rms
Inductance Drop .....35 % typ. at I sat

Materials

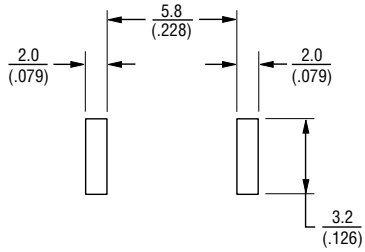
Core.....Ferrite
Wire .....Enameled copper
Terminal Finish .....Ag/Ni/Sn
Packaging.....1500 pcs. per reel

Product Dimensions



DIMENSIONS: MM (INCHES)

Recommended Layout



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

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** 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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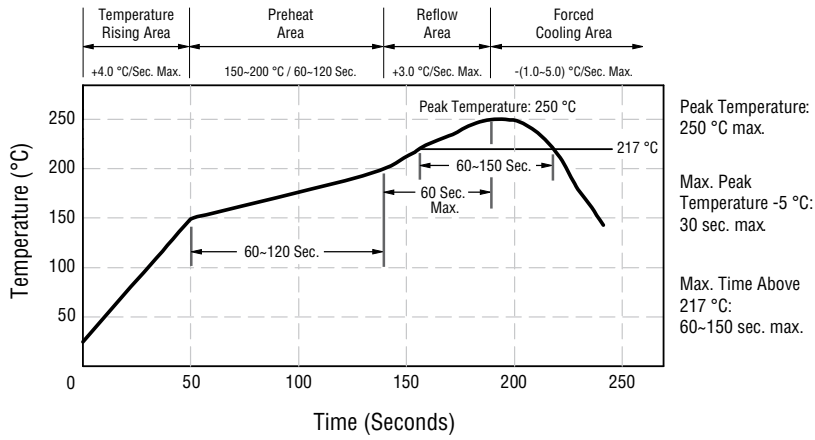
Soldering Profile

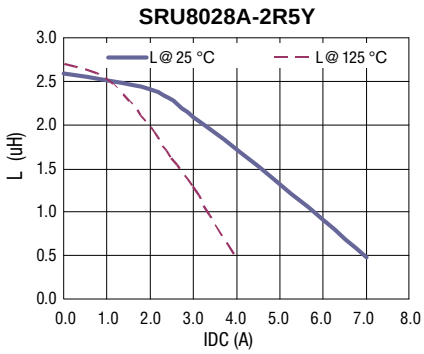


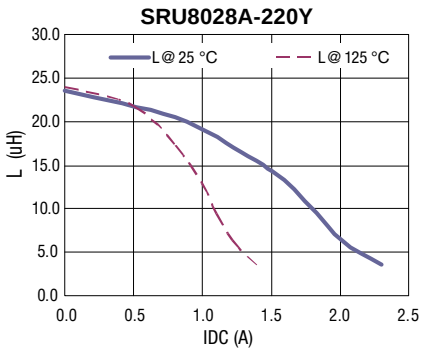
Peak Temperature: 250 °C max.

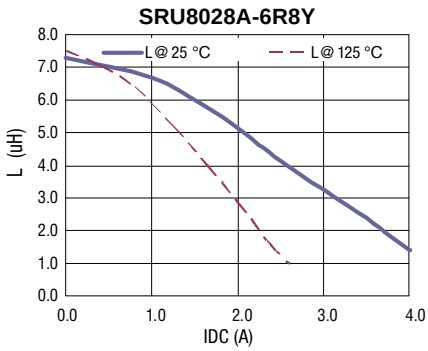
Max. Peak Temperature -5 °C: 30 sec. max.

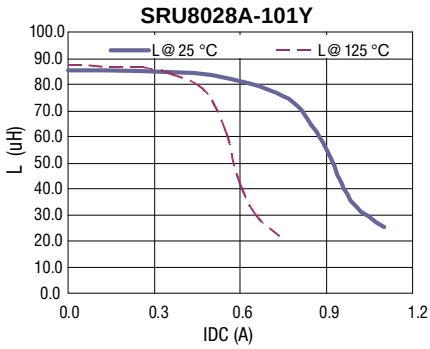
Max. Time Above 217 °C: 60~150 sec. max.

L vs. IDC









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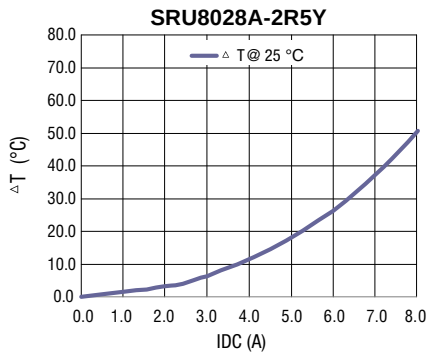
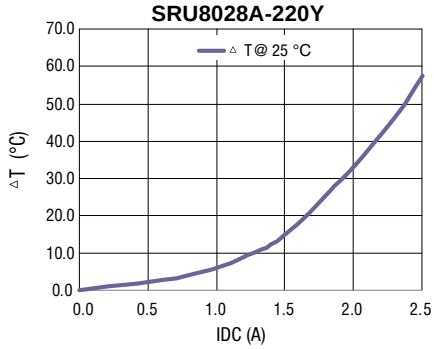
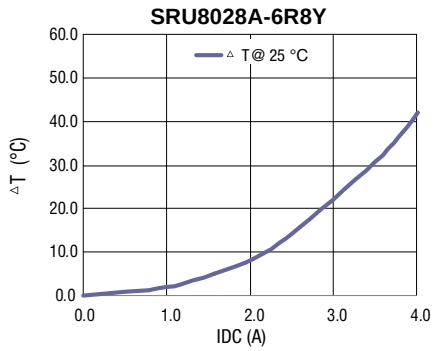
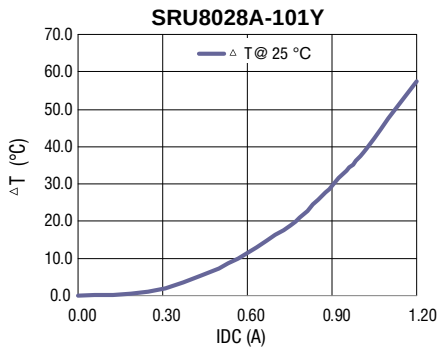
Temperature vs. IDC

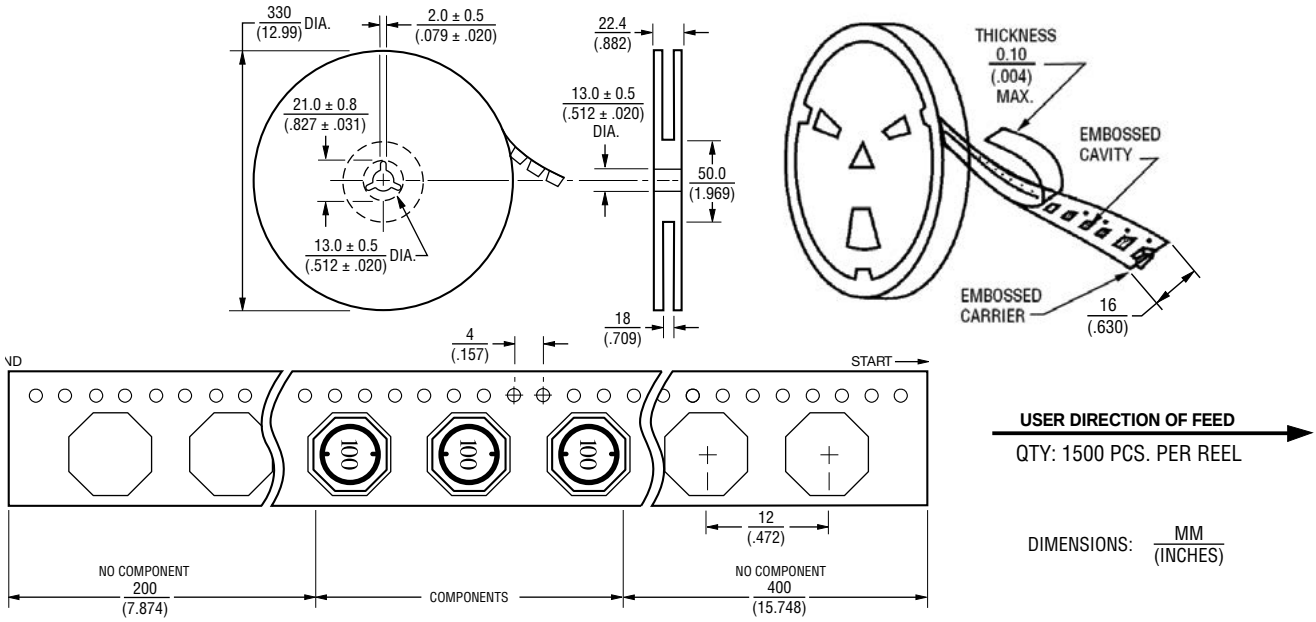








Packaging Specifications



REV. 11/19

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