



Features

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

SRU8028A Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

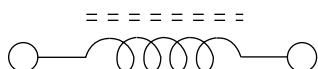
Bourns Part Number	Inductance @ 100 KHz / 1 V		Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (Ω) Max.	I rms (A)	I sat (A)
	L (μ H)	Tol. (%)						
SRU8028A-2R5Y	2.5	± 30	15	7.96	65	0.018	4.5	4.2
SRU8028A-3R3Y	3.3	± 30	12	7.96	60	0.023	3.6	3.5
SRU8028A-4R7Y	4.7	± 30	15	7.96	50	0.026	3.7	3.2
SRU8028A-6R8Y	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

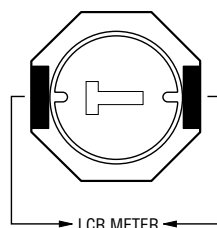
SRU8028A - 100Y

Model _____
Value Code (see table) _____

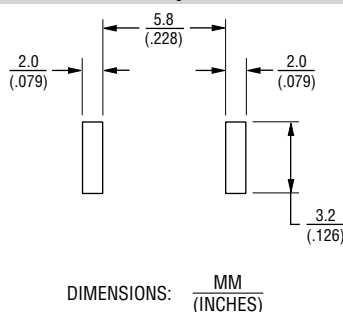
Electrical Schematic



Inductor Connection



Recommended Layout



Additional Information

Click these links for more information:



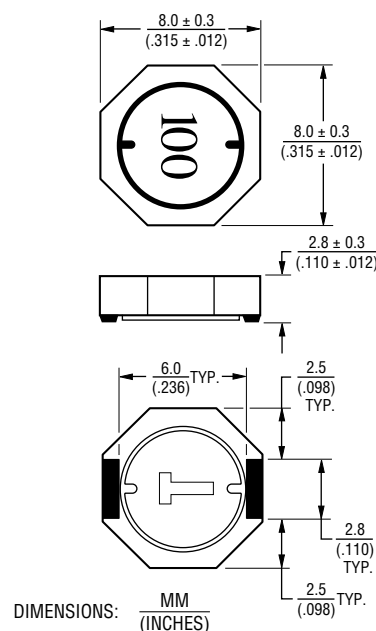
General Specifications

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



BOURNS®

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EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

www.bourns.com

* 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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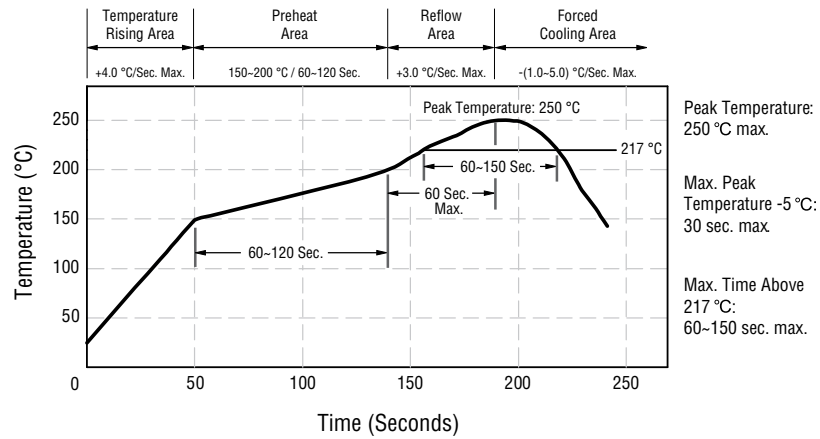


WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

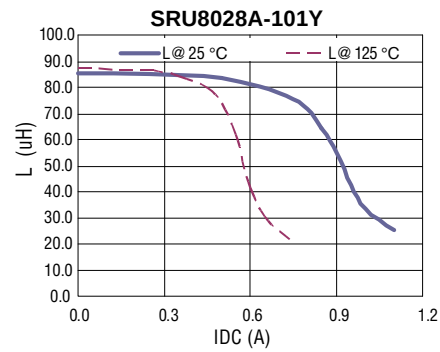
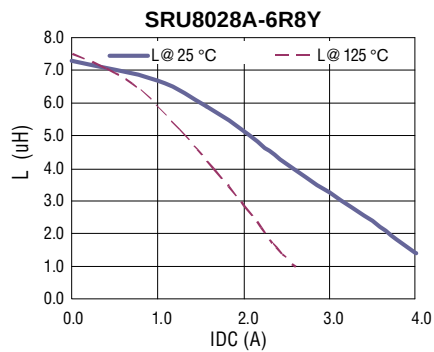
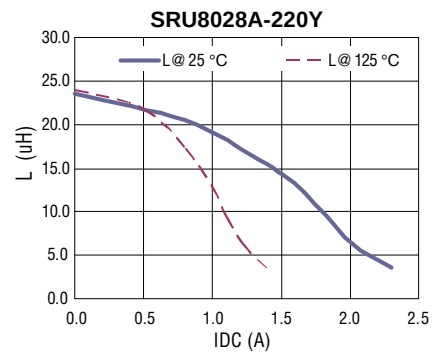
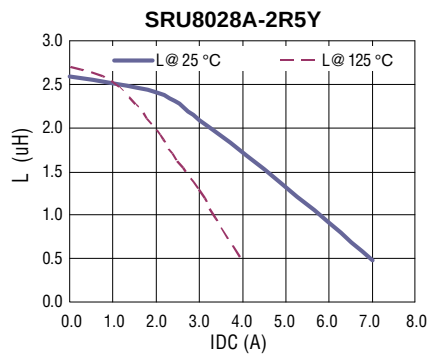
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Soldering Profile



L vs. IDC



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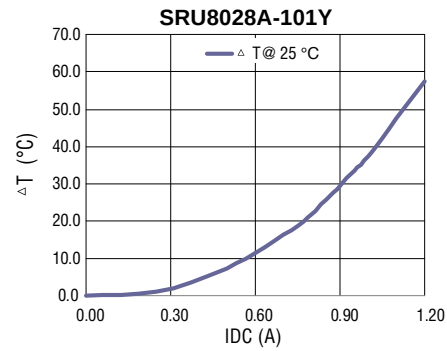
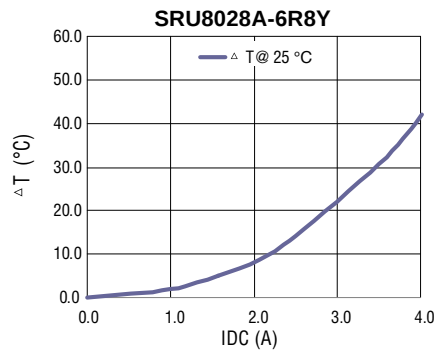
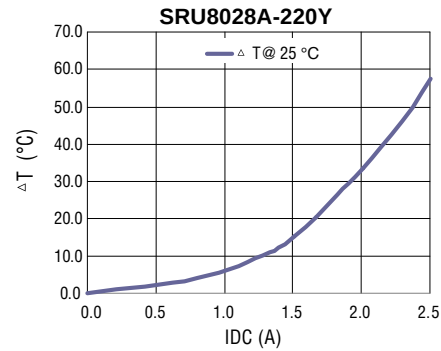
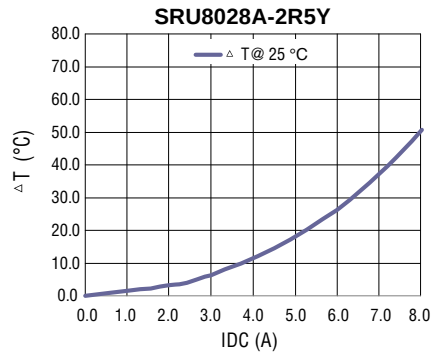
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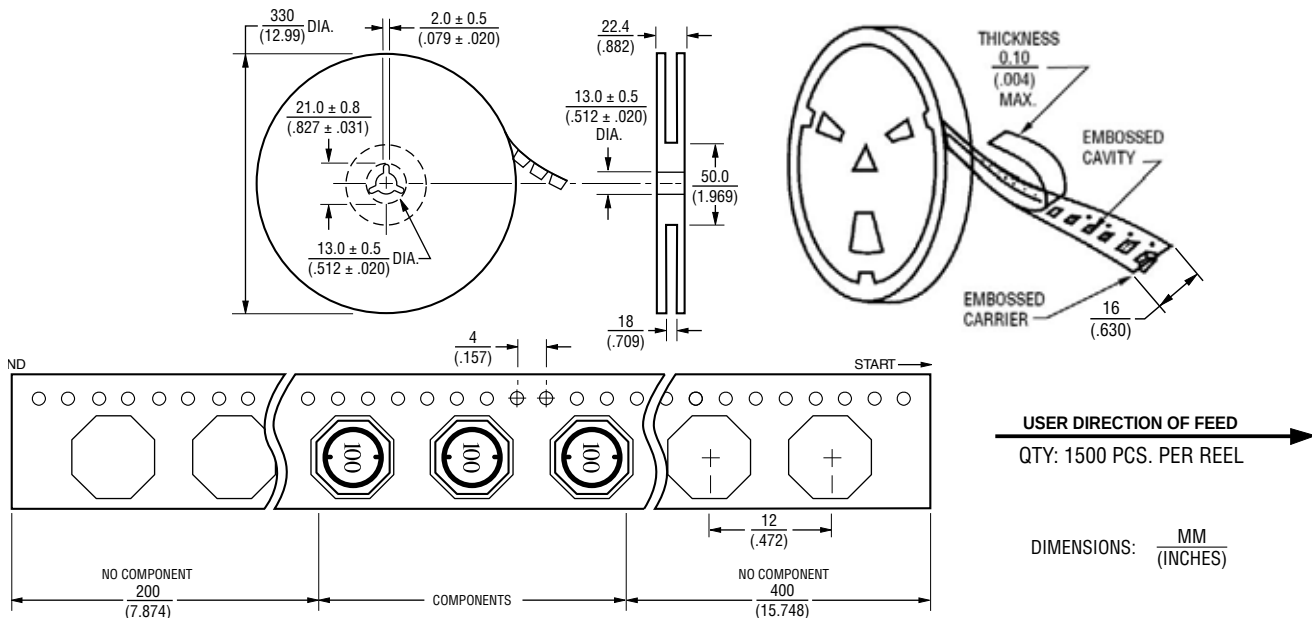
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Temperature vs. IDC



Packaging Specifications



REV. 06/24

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