

Features

- Shielded construction
- Inductance range: 1.2 to 220 µH
- Heating current up to 4 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRU6025A 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) Max.	I rms (A)	I sat (A)
	L (µH)	Tol. (%)						
SRU6025A-1R2Y	1.2	±30	8	7.96	120	0.019	4.0	3.2
SRU6025A-2R2Y	2.2	±30	8	7.96	65	0.024	3.4	2.35
SRU6025A-3R3Y	3.3	±30	8	7.96	50	0.027	3.2	2.0
SRU6025A-4R7Y	4.7	±30	8	7.96	42	0.035	2.7	1.55
SRU6025A-6R8Y	6.8	±30	8	7.96	36	0.042	2.4	1.3
SRU6025A-8R2Y	8.2	±30	8	7.96	30	0.052	2.2	1.25
SRU6025A-100Y	10	±30	12	2.52	25	0.057	2.0	1.05
SRU6025A-150Y	15	±30	12	2.52	22	0.086	1.8	0.92
SRU6025A-220Y	22	±30	12	2.52	18	0.13	1.6	0.7
SRU6025A-330Y	33	±30	12	2.52	12	0.18	1.2	0.64
SRU6025A-470Y	47	±30	12	2.52	10	0.25	1.0	0.48
SRU6025A-680Y	68	±30	10	2.52	8	0.365	0.8	0.4
SRU6025A-101Y	100	±30	24	0.796	7	0.5	0.7	0.35
SRU6025A-151Y	150	±30	30	0.796	5	0.77	0.54	0.28
SRU6025A-221Y	220	±30	20	0.796	4	1.25	0.42	0.24

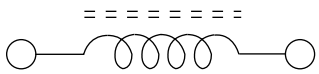
How to Order

SRU6025A - 100Y

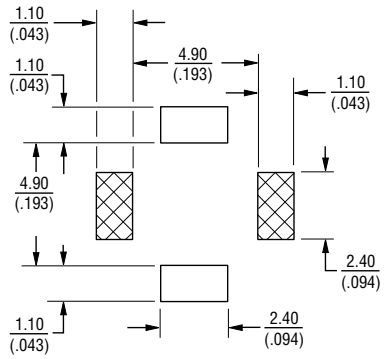
Model

Value Code (see table)

Electrical Schematic



Recommended Layout



DIMENSIONS: MM (INCHES)

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

General Specifications

Operating Temperature ..... -40 °C to +125 °C (Temperature rise included)

Storage Temperature ..... -40 °C to +125 °C

Temperature Rise .....30 °C typ. at rated I rms

Inductance Drop .....35 % typ. at I sat

Materials

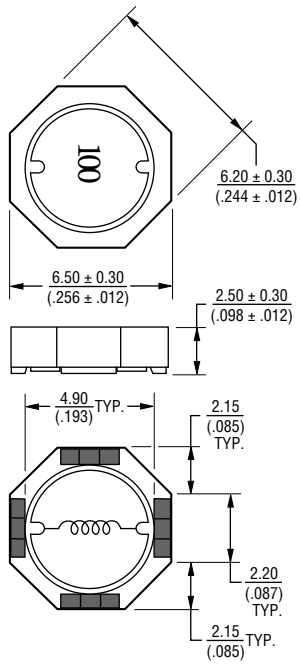
Core..... Ferrite

Wire .....Enameled copper

Terminal Finish .....Ag/Ni/Sn

Packaging.....600 pcs. per reel

Product Dimensions



DIMENSIONS: MM (INCHES)

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

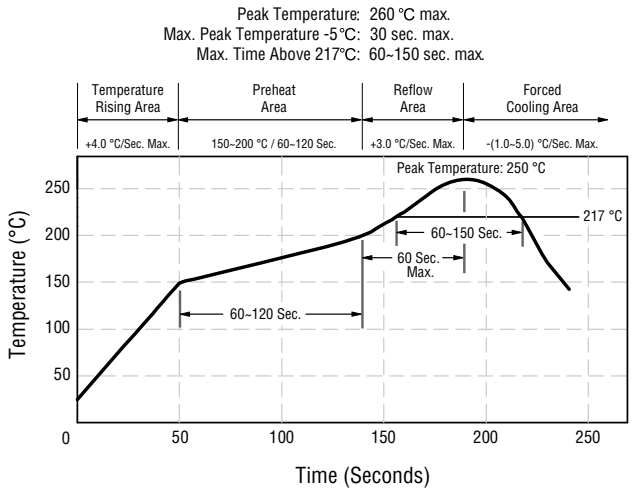
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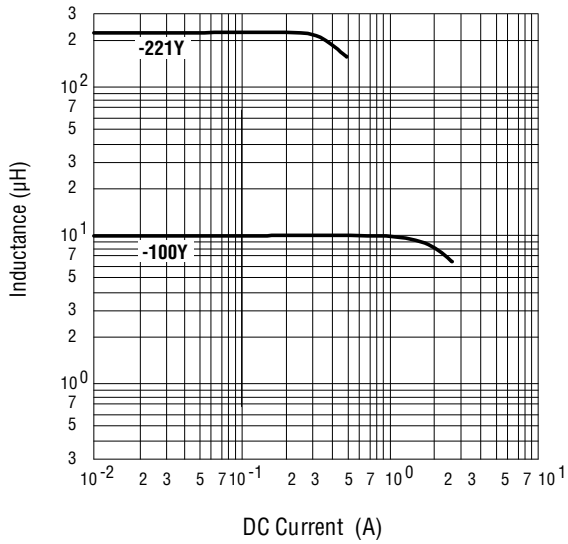
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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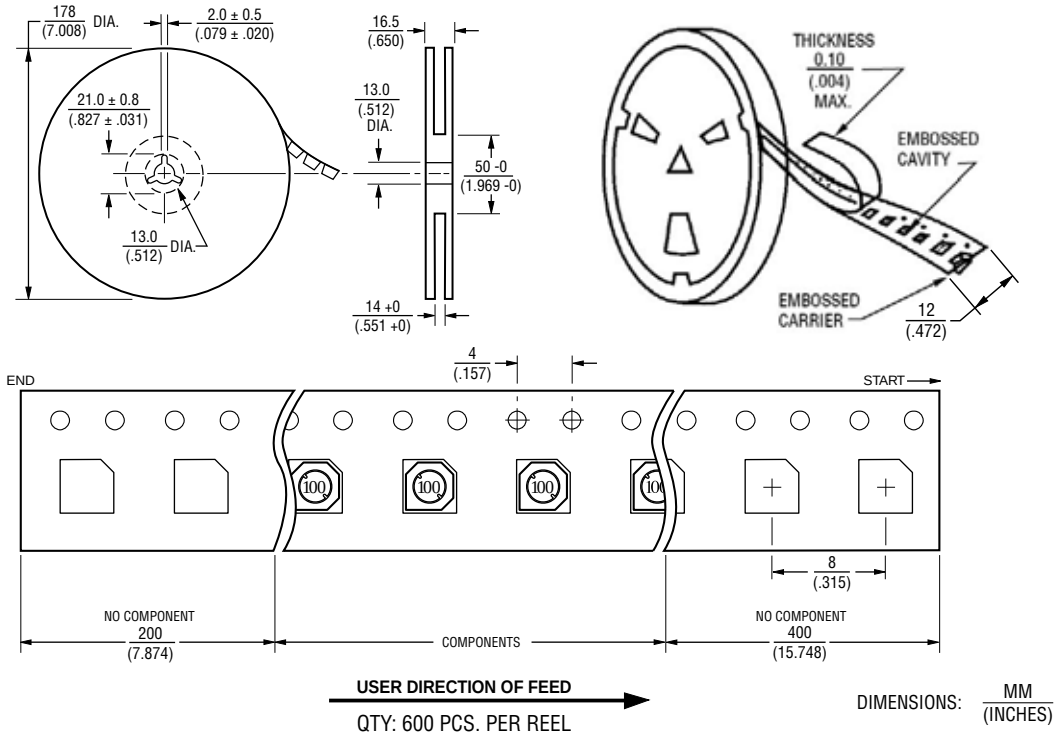
Soldering Profile



Inductance vs. DC Current Plot



Packaging Specifications



REV. 06/24

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