



Features

- Shielded construction
- Inductance range: 4.7 to 1000 μ H
- Heating current up to 8.2 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Additional Information

Click these links for more information:



SRR1280A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

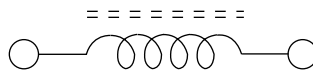
Bourns Part Number	Inductance			Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (m Ω) Max.	I rms (A)	I sat (A)
	L (μ H)	Tol. (%)	Test Frequency/Voltage						
SRR1280A-4R7Y	4.7	± 30	100 KHz/1 V	22	7.96	30	15.5	8.20	8.80
SRR1280A-6R8Y	6.8	± 30	100 KHz/1 V	20	7.96	22	18.5	7.60	8.00
SRR1280A-8R2Y	8.2	± 30	100 KHz/1 V	22	7.96	20	20.5	6.20	6.80
SRR1280A-100M	10	± 20	1 KHz/1 V	24	2.52	17	19.5	6.00	6.30
SRR1280A-120M	12	± 20	1 KHz/1 V	26	2.52	15	28.0	5.60	6.00
SRR1280A-150M	15	± 20	1 KHz/1 V	26	2.52	13	28.5	5.20	5.00
SRR1280A-180M	18	± 20	1 KHz/1 V	24	2.52	12	35.0	4.80	4.60
SRR1280A-220M	22	± 20	1 KHz/1 V	20	2.52	11	38.6	4.30	4.10
SRR1280A-270M	27	± 20	1 KHz/1 V	26	2.52	10	52.0	3.90	3.70
SRR1280A-330M	33	± 20	1 KHz/1 V	28	2.52	9.5	57.0	3.50	3.30
SRR1280A-390M	39	± 20	1 KHz/1 V	24	2.52	8.5	70.0	3.20	3.10
SRR1280A-470M	47	± 20	1 KHz/1 V	24	2.52	7.5	80.0	2.90	2.80
SRR1280A-560M	56	± 20	1 KHz/1 V	24	2.52	7	100.0	2.60	2.50
SRR1280A-680M	68	± 20	1 KHz/1 V	20	2.52	6.5	120.0	2.40	2.30
SRR1280A-820M	82	± 20	1 KHz/1 V	20	2.52	5	130.0	2.30	2.20
SRR1280A-101M	100	± 20	1 KHz/1 V	18	0.796	4.5	150.0	2.10	2.00
SRR1280A-121K	120	± 10	1 KHz/1 V	16	0.796	4.3	200.0	1.95	1.95
SRR1280A-151K	150	± 10	1 KHz/1 V	24	0.796	4.1	270.0	1.85	1.90
SRR1280A-181K	180	± 10	1 KHz/1 V	24	0.796	4	300.0	1.75	1.88
SRR1280A-221K	220	± 10	1 KHz/1 V	24	0.796	3.4	400.0	1.60	1.70
SRR1280A-271K	270	± 10	1 KHz/1 V	20	0.796	3.1	450.0	1.20	1.60
SRR1280A-331K	330	± 10	1 KHz/1 V	18	0.796	2.9	600.0	1.10	1.40
SRR1280A-391K	390	± 10	1 KHz/1 V	20	0.796	2.7	680.0	1.00	1.40
SRR1280A-471K	470	± 10	1 KHz/1 V	20	0.796	2.2	880.0	0.90	1.25
SRR1280A-561K	560	± 10	1 KHz/1 V	20	0.796	2	960.0	0.80	1.15
SRR1280A-681K	680	± 10	1 KHz/1 V	26	0.796	1.7	1300.0	0.75	0.97
SRR1280A-821K	820	± 10	1 KHz/1 V	20	0.796	1.4	1500.0	0.70	0.94
SRR1280A-102K	1000	± 10	1 KHz/1 V	40	0.252	1.3	1700.0	0.68	0.80

How to Order

SRR1280A - 100M

Model _____
Value Code (see table) _____

Electrical Schematic



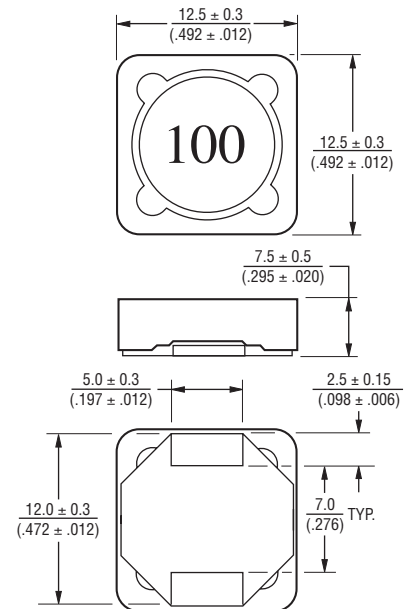
General Specifications

Operating Temp. -40 °C to +125 °C
(Temperature rise included)
Storage Temp. -40 °C to +125 °C
Temperature Rise
..... 40 °C typ. at rated I rms
Inductance Drop 25 % typ. at I sat
Moisture Sensitivity Level 1
ESD Classification (HBM) N/A

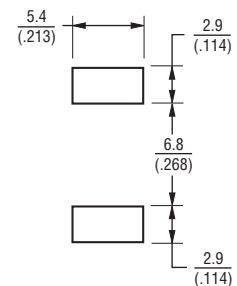
Materials

Core Ferrite
Wire Enameled copper
Terminal Finish Sn
Packaging 400 pcs. per reel

Product Dimensions



Recommended Layout



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See 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.

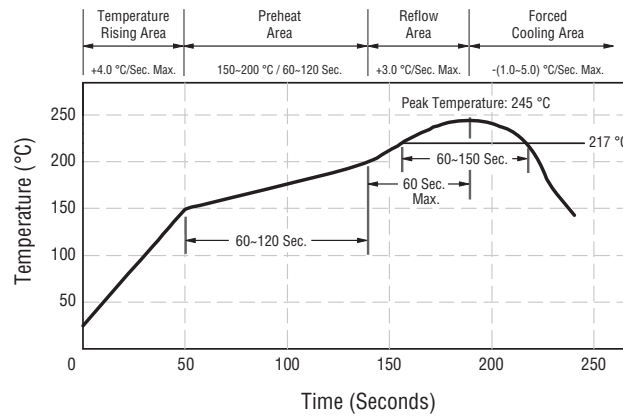
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

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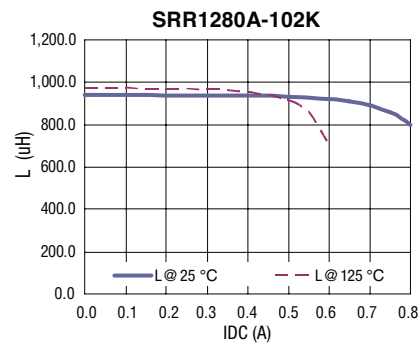
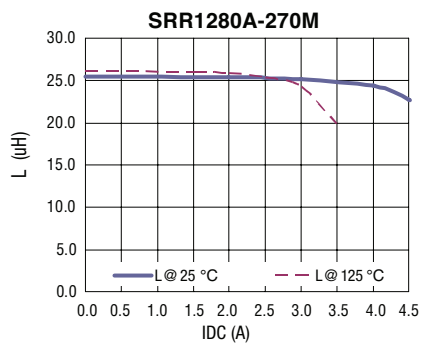
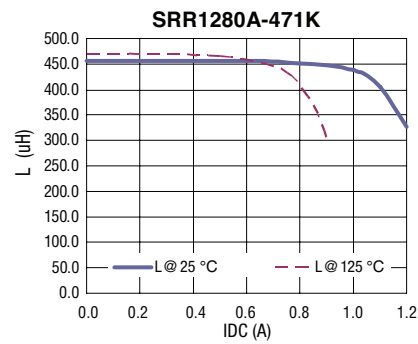
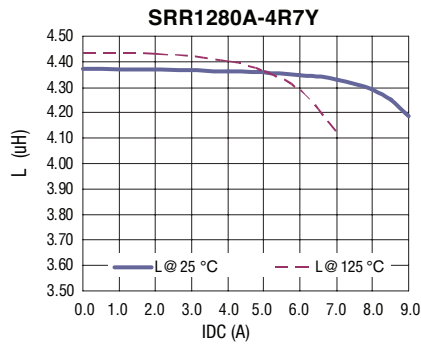


Soldering Profile

Peak Temperature: 245 °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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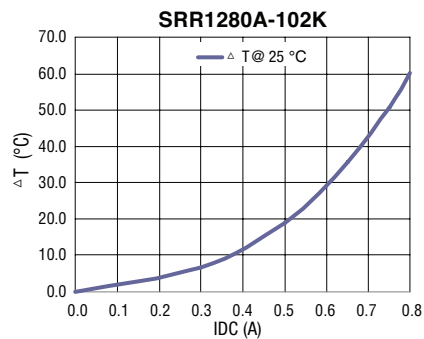
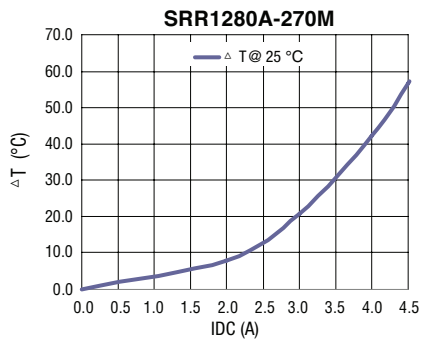
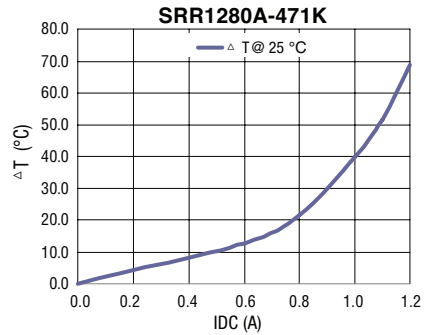
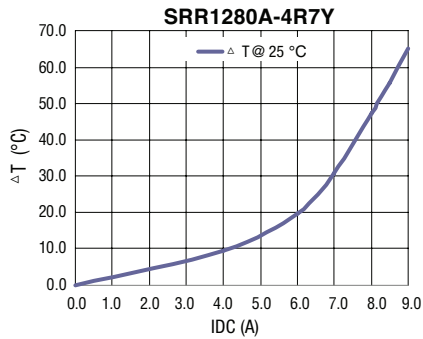
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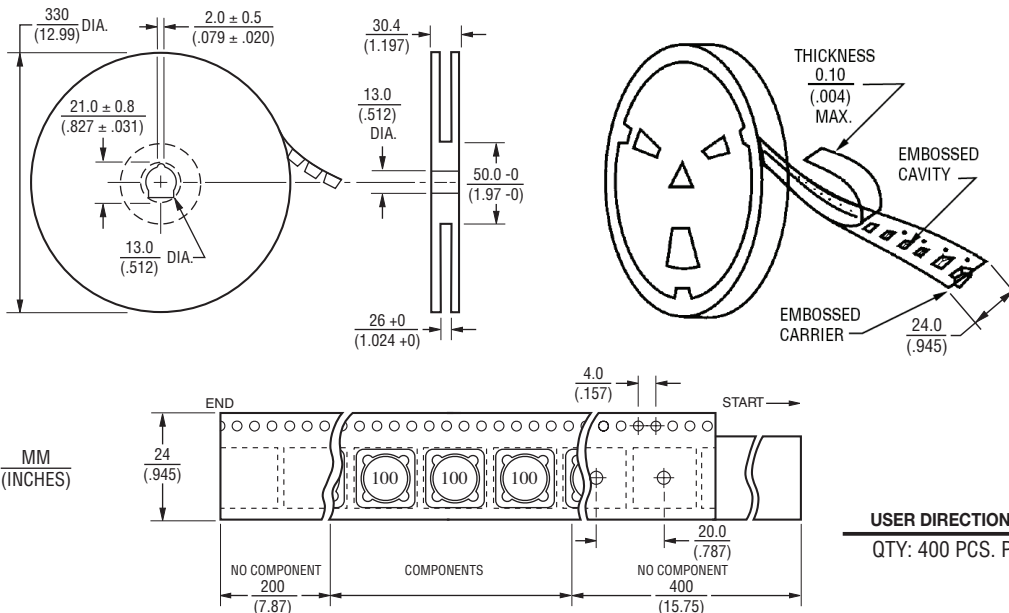
SRR1280A Series - Shielded Power Inductors



Temperature vs. IDC



Packaging Specifications



REV. 04/26

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