Features

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

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

SRR1280A Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance			Q (Ref.)	Test Freq. (MHz)	SRF (MHz) Typ.	DCR (mΩ) Max.	I rms (A)	I sat (A)
	L (µH)	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

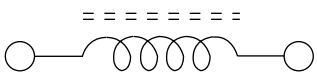
How to Order

SRR1280A - 100M

Model

Value Code (see table)

Electrical Schematic



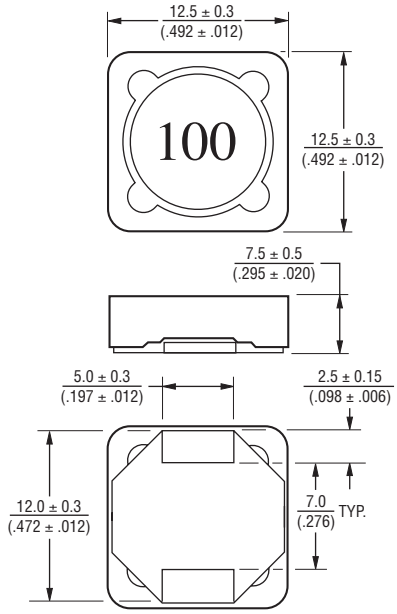
General Specifications

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

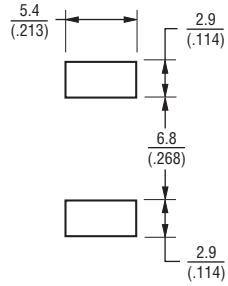
Materials

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

Product Dimensions



Recommended Layout



DIMENSIONS: MM / (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.

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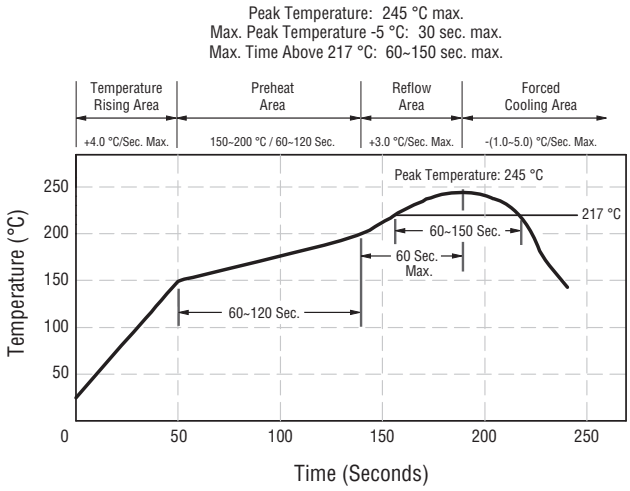
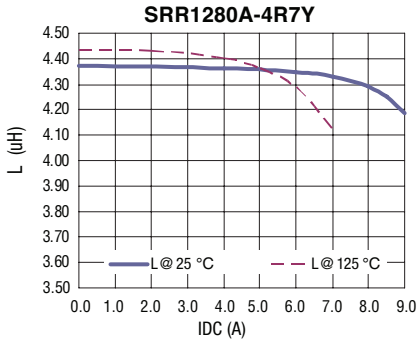
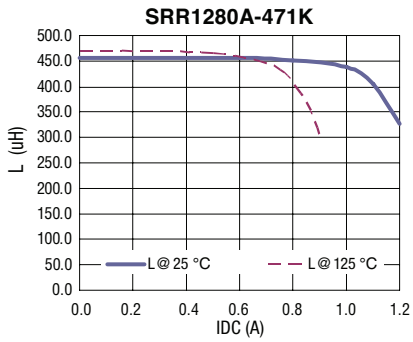
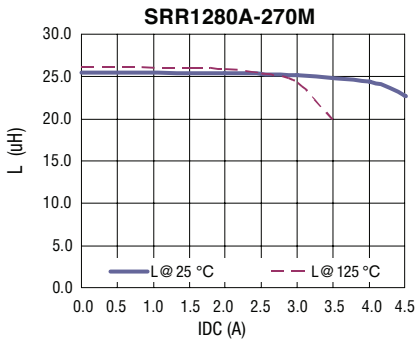
Soldering Profile

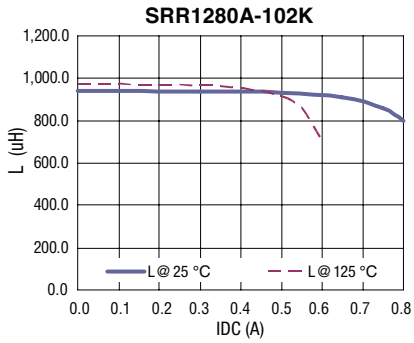


L vs. IDC









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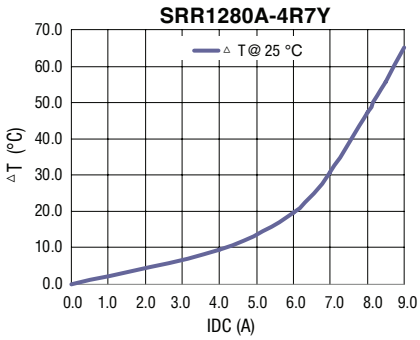
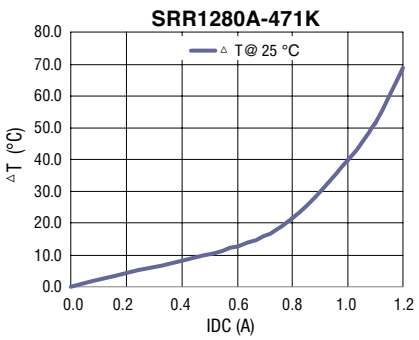
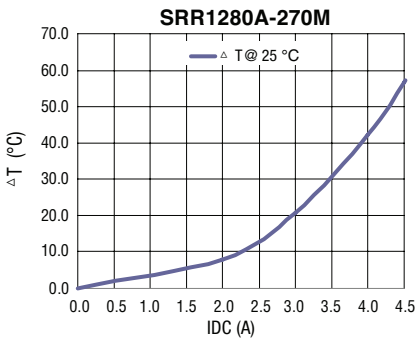
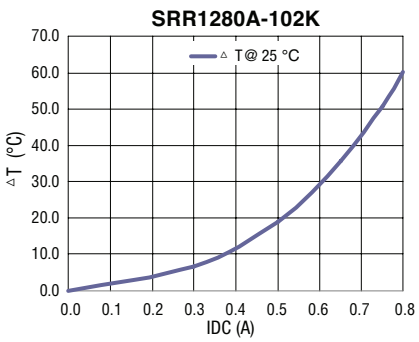
Temperature vs. IDC

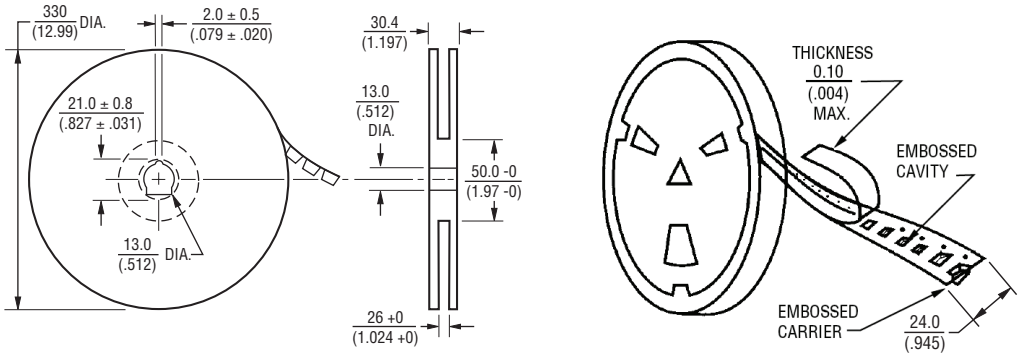


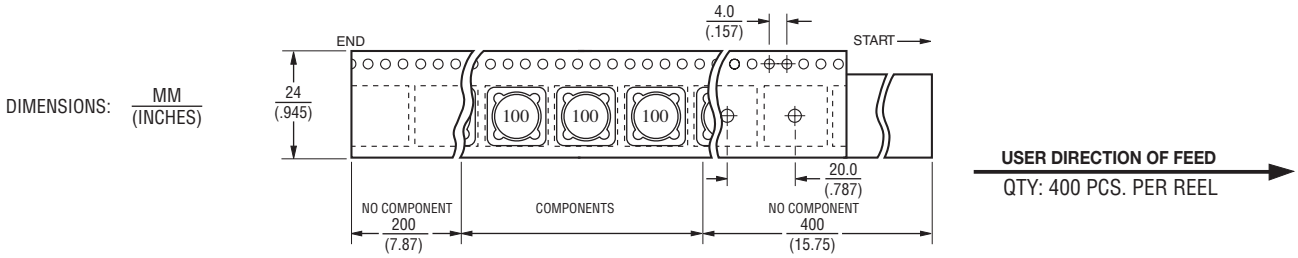






Packaging Specifications





REV. 04/26

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