

BOURNS®

Features

- Shielded construction for low radiation
- U-clip terminal for enhanced mounting strength
- Wide operating temperature range
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRR1050HA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part No.	Inductance @ 100 kHz / 0.1 V		SRF (MHz)	DCR (mΩ)		Irms (A)	Isat (A)
	L (µH)	Tol. %	Typ.	Typ.	Max.	Typ.	Typ.
SRR1050HA-R68Y	0.68	30	110.0	4.5	5.5	9.50	13.5
SRR1050HA-1R2Y	1.2	30	85.0	5.8	7.0	8.30	10.5
SRR1050HA-2R2Y	2.2	30	53.0	7.1	9.0	7.20	8.20
SRR1050HA-3R3Y	3.3	30	40.0	8.6	11.0	6.50	7.80
SRR1050HA-4R2Y	4.2	30	29.0	10.4	14.0	6.10	6.40
SRR1050HA-6R8Y	6.8	30	27.0	15.1	19.0	5.40	5.40
SRR1050HA-8R2Y	8.2	30	21.0	18.1	22.0	5.00	4.85
SRR1050HA-100Y	10.0	30	16.5	23.0	31.0	4.50	4.45
SRR1050HA-120Y	12.0	30	15.0	26.0	35.0	3.80	4.00
SRR1050HA-150Y	15.0	30	14.0	35.0	47.0	3.40	3.60
SRR1050HA-180Y	18.0	30	11.0	38.0	51.0	3.10	3.20
SRR1050HA-220Y	22.0	30	10.5	46.0	62.0	2.90	2.95
SRR1050HA-270Y	27.0	30	10.0	57.0	77.0	2.60	2.70
SRR1050HA-330Y	33.0	30	9.0	69.0	93.0	2.50	2.40
SRR1050HA-390Y	39.0	30	6.8	79.0	106.0	2.25	2.30
SRR1050HA-470Y	47.0	30	5.9	94.0	127.0	2.00	2.00
SRR1050HA-560Y	56.0	30	5.5	124.0	160.0	1.90	1.90
SRR1050HA-680Y	68.0	30	5.0	138.0	208.0	1.60	1.65
SRR1050HA-820Y	82.0	30	4.5	150.0	230.0	1.45	1.50
SRR1050HA-101Y	100.0	30	4.2	179.0	255.0	1.35	1.35
SRR1050HA-121Y	120.0	30	3.8	213.0	305.0	1.18	1.28
SRR1050HA-151Y	150.0	30	3.6	253.0	370.0	1.10	1.12
SRR1050HA-181Y	180.0	30	3.4	307.0	420.0	1.00	1.04
SRR1050HA-221Y	220.0	30	3.0	373.0	500.0	0.94	0.94
SRR1050HA-271Y	270.0	30	2.4	491.0	675.0	0.80	0.84
SRR1050HA-331Y	330.0	30	2.0	613.0	815.0	0.73	0.75
SRR1050HA-471Y	470.0	30	1.8	990.0	1200.0	0.60	0.70

Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

General Specifications

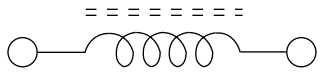
Operating Temperature
..... -55 °C to +150 °C
(Temperature rise included)
Storage Temperature (Component)
..... -55 °C to +150 °C
Temperature Rise ... 40 °C at rated Irms[1]
Rated Current
..... Inductance drops 35 % at Isat
Moisture Sensitivity Level 1
ESD Classification (HBM) ..... N/A

[1] Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core ..... Ferrite
Wire ..... Enameled copper
Terminal Finish ..... Ni/Sn
Packaging ..... 700 pcs. per 13-inch reel

Electrical Schematic



How to Order

SRR1050HA - 100Y

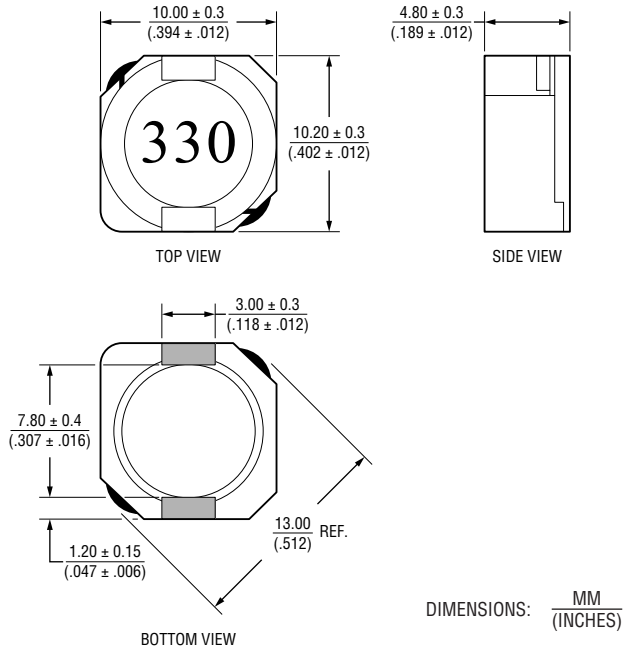
Model
Value Code (see table)

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.

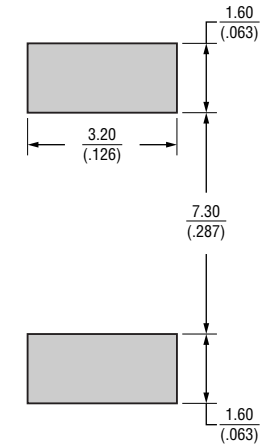
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Product Dimensions



DIMENSIONS: MM / (INCHES)

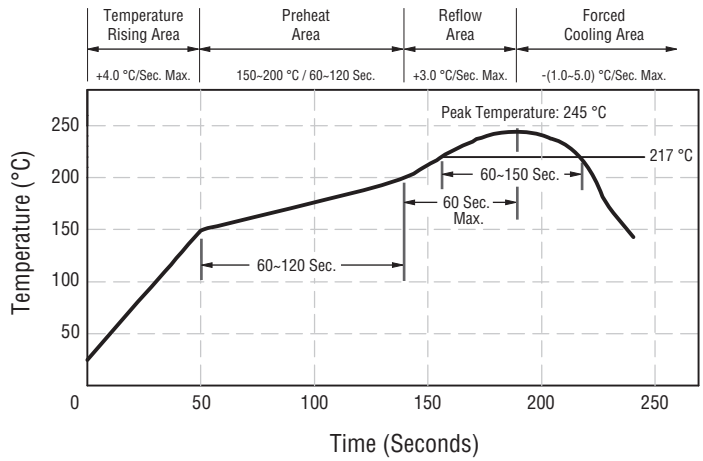
Recommended Layout



DIMENSIONS: MM / (INCHES)

Soldering Profile

Peak Temperature: 245 °C max.
Max. Peak Temperature -5 °C: 30 sec. max.
Max. Time Above 217 °C: 60~150 sec. max.

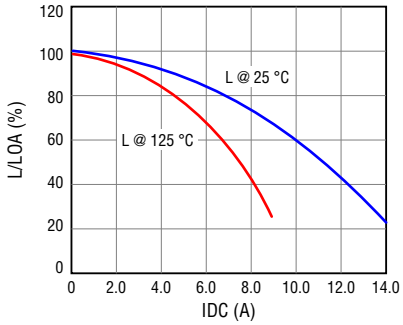


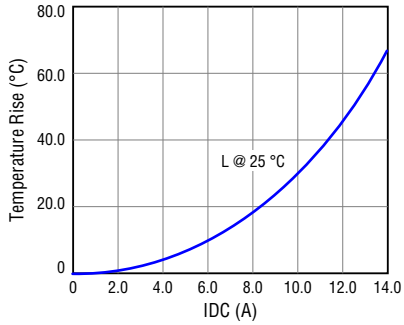
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Inductance vs. IDC

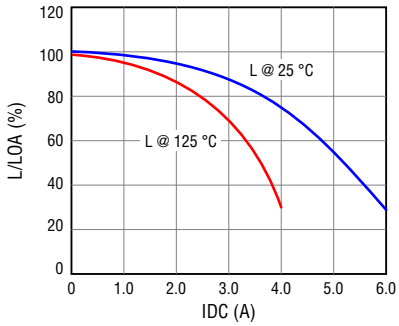
Temperature vs. IDC

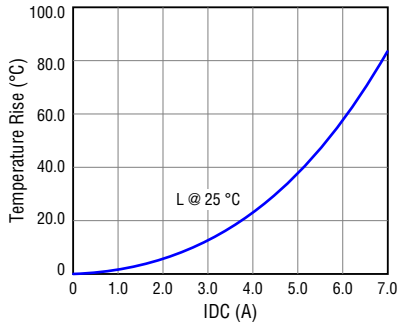
SRR1050HA-2R2Y



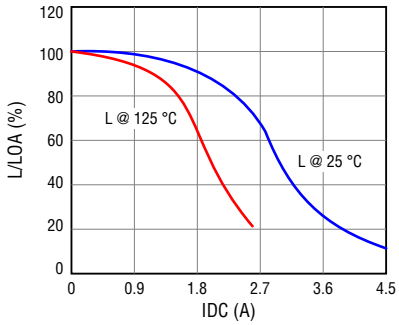


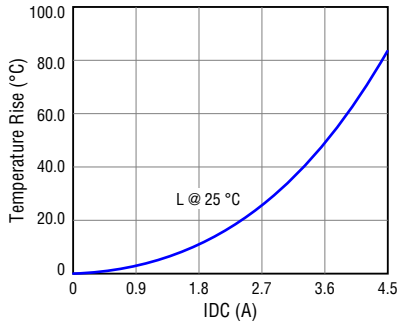
SRR1050HA-100Y



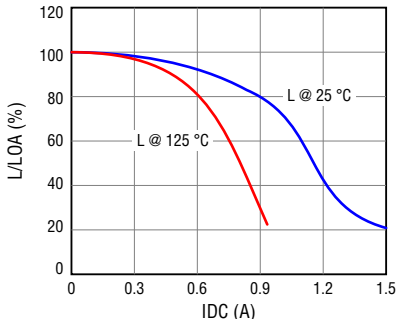


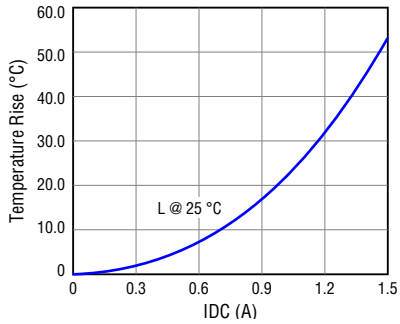
SRR1050HA-270Y





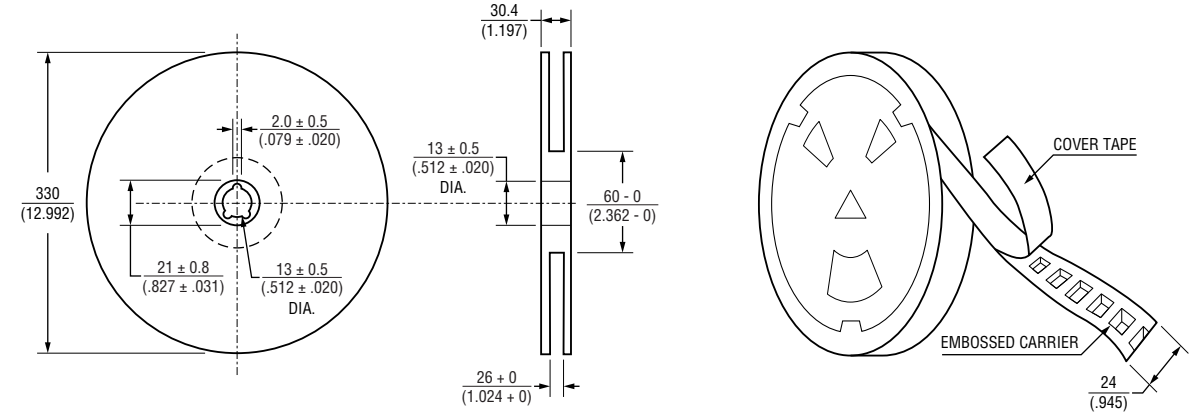
SRR1050HA-221Y

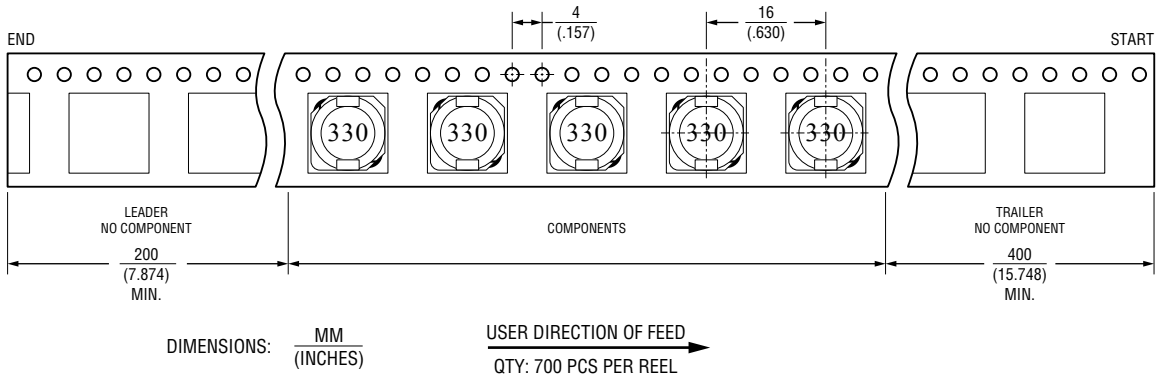




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Packaging Specifications





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