

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

	Inductance @ 100 kHz / 0.1 V		SRF	DCR (mΩ)		Irms (A)	Isat (A)
Bourns Part No.	L (μ H)	Tol. %	(MHz) Typ.	Тур.	Max.	Typ.	Тур.
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:



General Specifications

Operating Temperature

(Temperature rise included)
Storage Temperature (Component)
Temperature Rise 40 °C at rated Irms ¹
Rated Current
Inductance drops 35 % at Isat
Moisture Sensitivity Level1
ESD Classification (HBM)N/A
¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions

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

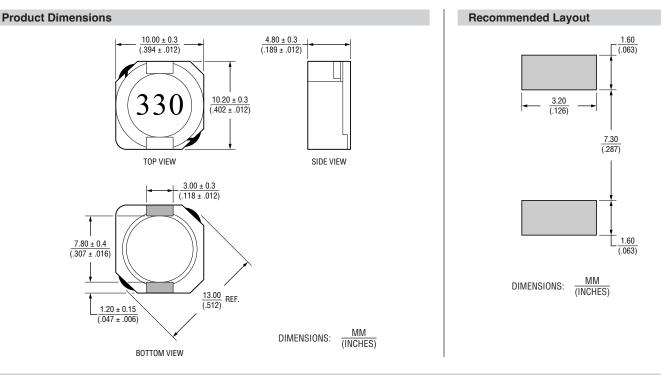
Model ______ Value Code (see table) -



** 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.

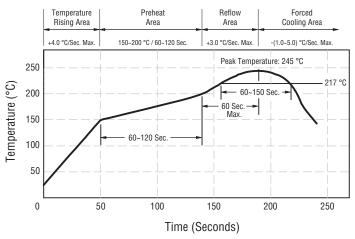
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Soldering Profile





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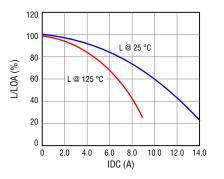
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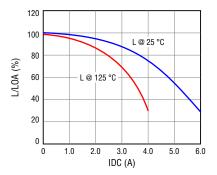
Inductance vs. IDC

Temperature vs. IDC

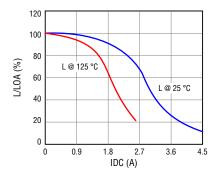
SRR1050HA-2R2Y



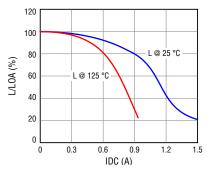
SRR1050HA-100Y

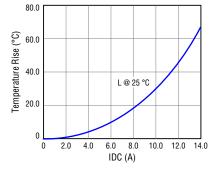


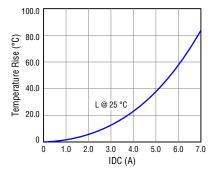
SRR1050HA-270Y

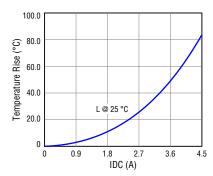


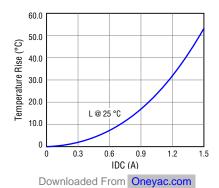
SRR1050HA-221Y











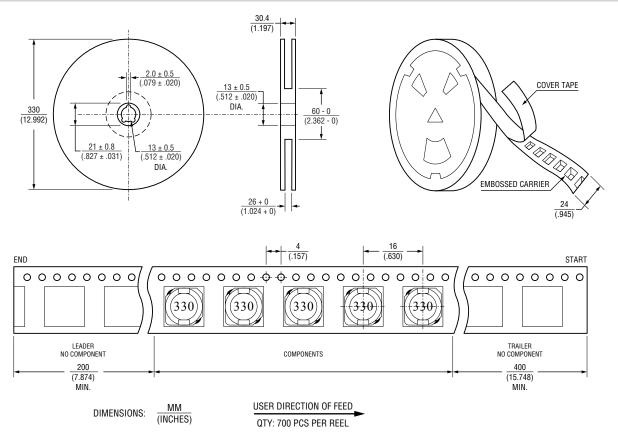
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Packaging Specifications



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