

Features

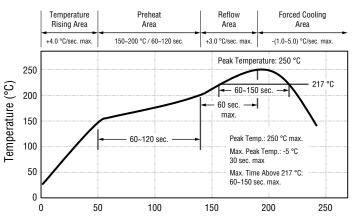
- Semi-shielded construction
- High operating temperature
- Inductance range: 0.55 to 100 µH
- Rated current up to 7 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRN6045HA Series - Semi-shielded Power Inductors

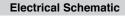
Electrical Specifications @ 25 °C

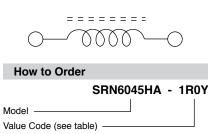
	Inductance @ 100 kHz / 0.1 V			Q Test	SRF	DCR	DCR	Irms	Isat
Bourns Part No.	L (μ H)	Tol. %	Q Typ.	Freq. (MHz)	(MHz) Typ.	(mΩ) Typ.	(mΩ) Max.	(А) Тур.	(А) Тур.
SRN6045HA-R55Y	0.55	30	19.0	7.96	135	4.80	6.00	7.00	18.00
SRN6045HA-1R0Y	1.00	30	17.0	7.96	80	7.30	9.00	6.50	14.50
SRN6045HA-1R5Y	1.50	30	17.0	7.96	55	12.90	15.00	5.00	11.00
SRN6045HA-2R2Y	2.20	30	17.0	7.96	50	17.00	23.00	4.40	9.50
SRN6045HA-3R3Y	3.30	30	20.0	7.96	40	23.00	30.00	4.00	8.00
SRN6045HA-4R7Y	4.70	30	20.0	7.96	30	30.00	35.00	3.60	7.00
SRN6045HA-100M	10.00	20	20.0	2.52	20	41.00	50.00	2.60	4.00
SRN6045HA-220M	22.00	20	24.0	2.52	13	121.00	144.00	1.70	2.50
SRN6045HA-330M	33.00	20	24.0	2.52	10	170.00	211.00	1.50	2.20
SRN6045HA-470M	47.00	20	23.0	2.52	8	224.00	305.00	1.00	1.90
SRN6045HA-101M	100.00	20	23.0	0.796	6	484.00	540.00	0.72	1.20

Soldering Profile



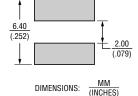
Time (Seconds)





6.40 (.252)

Recommended Layout



DIMENSIONS:



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 (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) 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

Additional Information

Click these links for more information:



General Specifications

Operating Temperature

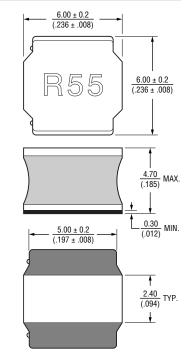
.....--55 °C to +150 °C (Temperature rise included)

Storage Temperature (Component) Temperature Rise40 °C at rated Irms Rated Current

..... Inductance drops 30 % at Isat Moisture Sensitivity Level1 ESD Classification (HBM).....N/A

Materials

Product Dimensions

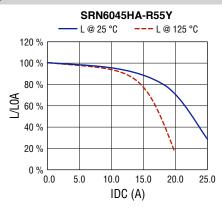


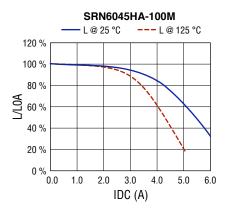


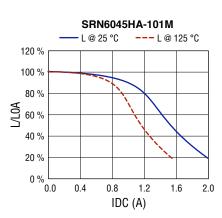
SRN6045HA Series - Semi-shielded Power Inductors

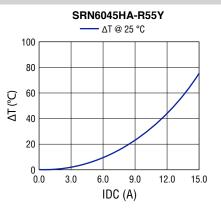
BOURNS

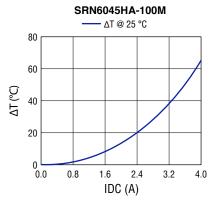
Inductance vs. IDC

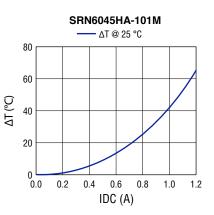












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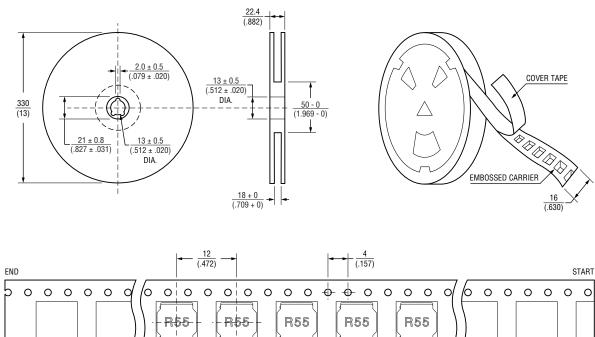
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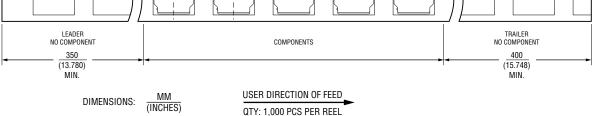
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SRN6045HA Series - Semi-shielded Power Inductors

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Packaging Specifications





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