



Features

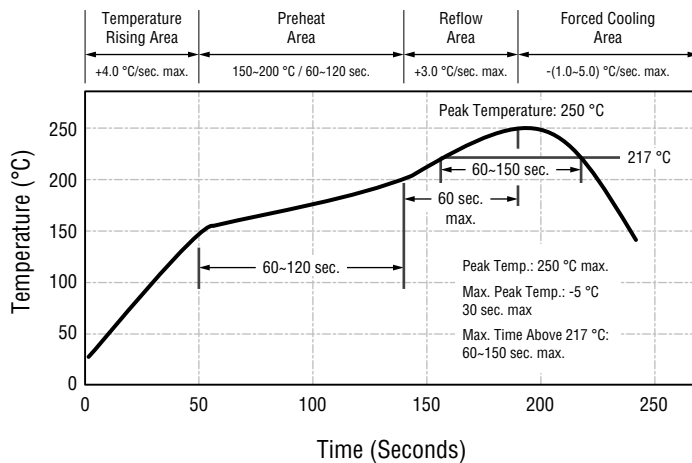
- Semi-shielded construction
- High operating temperature
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRN4030HA Series - Semi-shielded Power Inductors

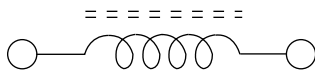
Electrical Specifications @ 25 °C

| Bourns Part No. | Inductance @ 100 kHz / 0.1 V | | Q Typ. | Q Test Freq. (MHz) | SRF (MHz) Typ. | DCR (mΩ) Max. | I _{rms} (A) Typ. | I _{sat} (A) Typ. |
|-----------------|------------------------------|--------|--------|--------------------|----------------|---------------|---------------------------|---------------------------|
| | L (μH) | Tol. % | | | | | | |
| SRN4030HA-1R0Y | 1.00 | 30 | 15 | 7.96 | 100 | 20.0 | 5.50 | 7.80 |
| SRN4030HA-2R2Y | 2.20 | 30 | 14 | 7.96 | 47 | 30.0 | 4.30 | 4.90 |
| SRN4030HA-3R3Y | 3.30 | 30 | 13 | 7.96 | 39 | 50.0 | 3.40 | 4.00 |
| SRN4030HA-4R7Y | 4.70 | 30 | 13 | 7.96 | 31 | 60.0 | 3.10 | 3.50 |
| SRN4030HA-100M | 10.00 | 20 | 17 | 2.52 | 20 | 180.0 | 1.80 | 2.20 |
| SRN4030HA-220M | 22.00 | 20 | 18 | 2.52 | 13 | 330.0 | 1.20 | 1.50 |
| SRN4030HA-470M | 47.00 | 20 | 19 | 2.52 | 8 | 650.0 | 0.85 | 1.05 |
| SRN4030HA-101M | 100.00 | 20 | 26 | 0.796 | 7 | 1450.0 | 0.55 | 0.70 |

Soldering Profile



Electrical Schematic

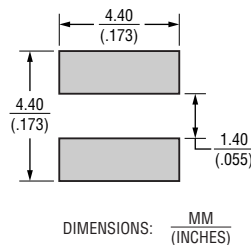


How to Order

SRN4030HA - 1R0Y

Model _____
Value Code (see table) _____

Recommended Layout



Additional Information

Click these links for more information:



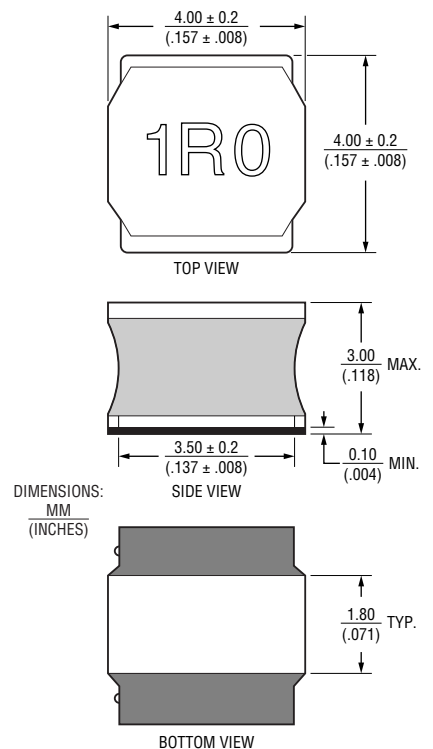
General Specifications

Operating Temperature -55 °C to +150 °C
(Temperature rise included)
Storage Temperature (Component) -55 °C to +150 °C
Temperature Rise 40 °C at rated I_{rms}
Rated Current Inductance drops 30 % at I_{sat}
Moisture Sensitivity Level 1
ESD Classification (HBM) N/A

Materials

Core Ferrite
Wire Enameled copper
Terminal Finish Sn/Ag/Cu
Coating Magnetic epoxy resin
Packaging 600 pcs. per 7-inch reel

Product Dimensions



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

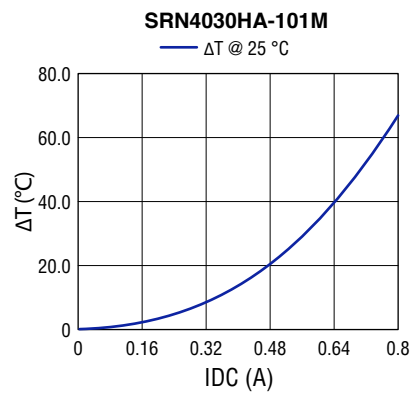
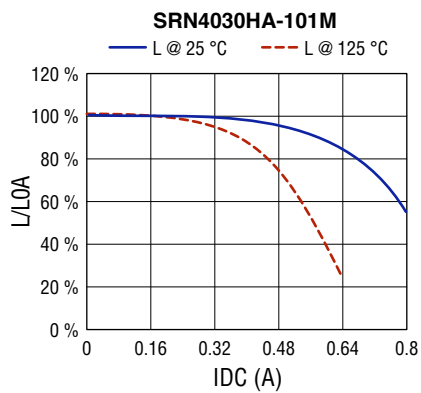
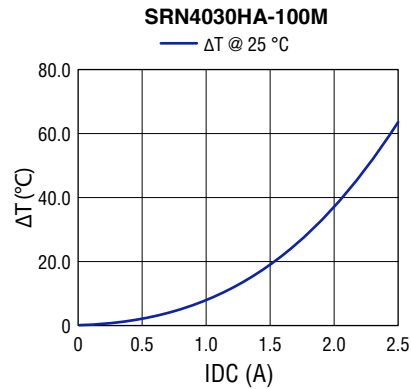
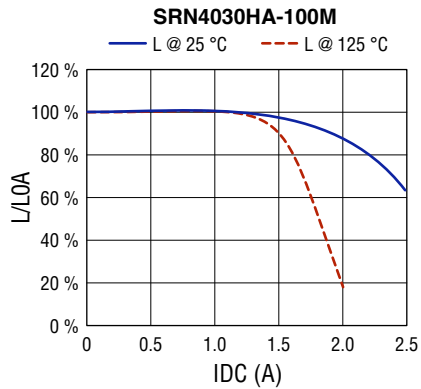
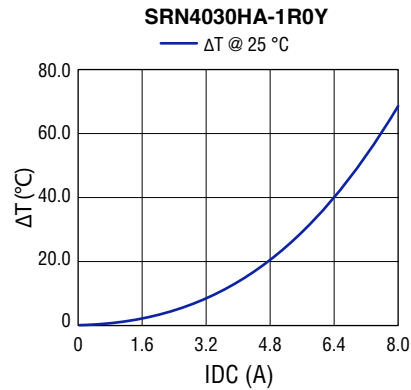
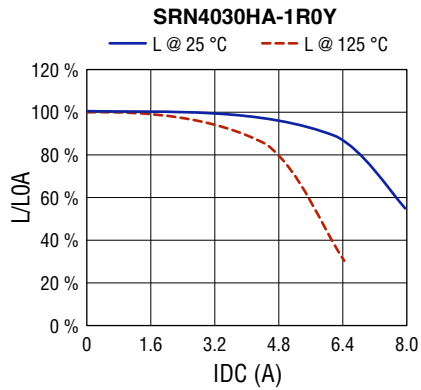
* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Bourns considers a product to be "halogen free" if
(a) the Bromine (Br) content is 900 ppm or less;
(b) the Chlorine (Cl) content is 900 ppm or less; and
(c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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SRN4030HA Series - Semi-shielded Power Inductors

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Inductance vs. IDC and Temperature Rise vs. IDC



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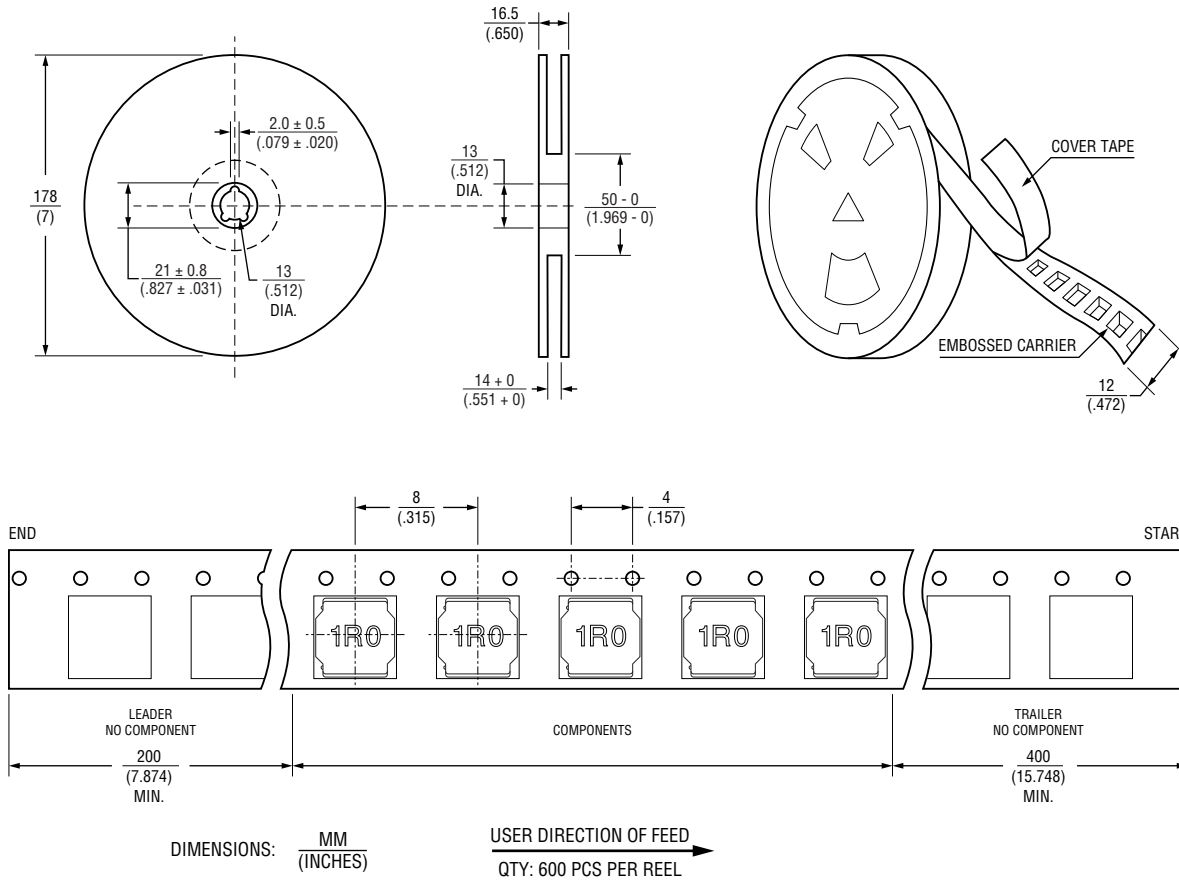
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SRN4030HA Series - Semi-shielded Power Inductors

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Packaging Specifications



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[SRR1050HA-R68Y](#) [SPB1012-R15Y](#) [SRP2512TMA-1R5M](#) [SRR1050HA-471Y](#) [SRP2512TMA-R47M](#) [SRR1050HA-470Y](#) [SRR1050HA-1R2Y](#) [SPB1005-R15M](#) [SPB1005-R12M](#) [SPB1012-R13Y](#) [SRP2510TMA-R22M](#) [SPB0705-R12M](#) [SRP2510TMA-2R2M](#) [SRP2010TMA-R24M](#) [SRP2012TMA-R47M](#) [SRR1050HA-8R2Y](#) [SRR1050HA-101Y](#) [SRP2510TMA-R33M](#) [SRR1050HA-390Y](#) [SRR1050HA-3R3Y](#)
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