SRN3030HA Series - Semi-shielded Power Inductors

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

Additional Information
Click these links for more information:
- Product Selector
- Technical Library
- Inventory
- Samples
- Contact

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 100 kHz / 0.1 V</th>
<th>Q Typ.</th>
<th>Q Test Freq. (MHz)</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Typ.</th>
<th>Irms (A) Typ.</th>
<th>Isat (A) Typ.</th>
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</thead>
<tbody>
<tr>
<td>SRN3030HA-1R0Y</td>
<td>1.00</td>
<td>30</td>
<td>13</td>
<td>7.96</td>
<td>122</td>
<td>55.0</td>
<td>2.60</td>
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<td>SRN3030HA-2R2Y</td>
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<td>14</td>
<td>7.96</td>
<td>66</td>
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<td>SRN3030HA-100M</td>
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<td>SRN3030HA-220M</td>
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<td>SRN3030HA-101M</td>
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<td>0.796</td>
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</table>

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
- Rated Current: Inductance drops 30 % at Isat
- Moisture Sensitivity Level: 1 ESD Classification (HBM): N/A

Materials
- Core: Ferrite
- Wire: Enameled copper
- Terminal Finish: Sn/Ag/Cu
- Coating: Magnetic epoxy resin

Product Dimensions
- TOP VIEW: 3.00 ± 0.2 mm (0.118 ± 0.008)
- SIDE VIEW: 2.80 ± 0.2 mm (0.110 ± 0.008)
- BOTTOM VIEW: 1.00 mm (0.039)

How to Order
Model: SRN3030HA - 1R0Y
Value Code (see table)

Recommended Layout

WARNING Cancer and Reproductive Harm
- 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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Inductance vs. IDC and Temperature Rise vs. IDC

<table>
<thead>
<tr>
<th>Specifications</th>
<th>L @ 25 °C</th>
<th>L @ 125 °C</th>
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<tbody>
<tr>
<td>SRN3030HA-1R0Y</td>
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</table>

<table>
<thead>
<tr>
<th>Specifications</th>
<th>ΔT @ 25 °C</th>
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<tbody>
<tr>
<td>SRN3030HA-1R0Y</td>
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</table>

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Packaging Specifications

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