SRN4030HA Series - Semi-shielded Power Inductors

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

SRN4030HA Series

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)</th>
<th>DCR (mΩ)</th>
<th>Irms (A) Typ.</th>
<th>Isat (A) Typ.</th>
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<tbody>
<tr>
<td>SRN4030HA-1R0Y</td>
<td>1.00</td>
<td>30</td>
<td>15</td>
<td>7.96</td>
<td>100</td>
<td>20.0</td>
<td>5.50</td>
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<td>SRN4030HA-2R2Y</td>
<td>2.20</td>
<td>30</td>
<td>14</td>
<td>7.96</td>
<td>47</td>
<td>30.0</td>
<td>4.30</td>
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<td>SRN4030HA-3R3Y</td>
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<td>13</td>
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<td>SRN4030HA-100M</td>
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<td>SRN4030HA-101M</td>
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<td>0.796</td>
<td>7</td>
<td>1450.0</td>
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</table>

Soldering Profile

Peak Temperature: 250 °C

Temperature (°C)

0 50 100 150 200 250

Time (Seconds)

0 50 100 150 200 250

Temperature

General Specifications

Operating Temperature

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

Storage Temperature (Component)

-55 °C to +150 °C

Temperature Rise

-5 °C at rated Irms

Rated Current

Max. Peak Temp.: -5 °C

Max. Time Above 217 °C: 60~150 sec. max.

Materials

Core: Ferrite

Wire: Enamelled copper

Terminal Finish: Sn/Ag/Cu

Coating: Magnetic epoxy resin

Packaging: 600 pcs. per 7-inch reel

How to Order

SRN4030HA - 1R0Y

Recommended Layout

Dimensions: MM (INCHES)

1.00 ± 0.2 (.039 ± .008)

4.00 ± 0.2 (.157 ± .008)

4.00 ± 0.2 (.157 ± .008)

3.50 ± 0.2 (.137 ± .008)

1.80 (.071) TYP.

0.10 (.004) MIN.

3.50 ± 0.2 (.137 ± .008)

1.80 (.071) TYP.

Dimensions: MM (INCHES)

Bottom View

WARNING: Cancer and Reproductive Harm

www.P65Warnings.ca.gov

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Inductance vs. IDC and Temperature Rise vs. IDC

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