Features
- Semi-shielded construction
- Low profile: 1.2 mm
- Inductance range: 0.47 to 22 µH
- Rated current up to 3.2 A
- RoHS compliant* and halogen free**

Applications
- DC/DC converters
- Notebook computers
- Digital video cameras
- HDDs
- Cellphones
- Televisions, LCD displays

SRN4012T Series - Semi-shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 100 KHz / 1 V</th>
<th>Q (Min.) @ 100 kHz / 1 V</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (Ω) ±20 %</th>
<th>Irms (A)</th>
<th>Ilast (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRN4012T-R47M</td>
<td>0.47 ± 20 6 140</td>
<td>0.025 3.2 4</td>
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<tr>
<td>SRN4012T-1R0M</td>
<td>1.0 ± 20 6 100</td>
<td>0.042 2.2 2.8</td>
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<tr>
<td>SRN4012T-1R5M</td>
<td>1.5 ± 20 6 90</td>
<td>0.05 2 2.2</td>
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<tr>
<td>SRN4012T-2R2M</td>
<td>2.2 ± 20 6 70</td>
<td>0.06 1.9 1.65</td>
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<tr>
<td>SRN4012T-3R3M</td>
<td>3.3 ± 20 6 60</td>
<td>0.07 1.7 1.4</td>
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<td></td>
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<tr>
<td>SRN4012T-4R7M</td>
<td>4.7 ± 20 6 45</td>
<td>0.095 1.5 1.2</td>
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<tr>
<td>SRN4012T-6R8M</td>
<td>6.8 ± 20 6 35</td>
<td>0.125 1.3 0.9</td>
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<tr>
<td>SRN4012T-100M</td>
<td>10 ± 20 10 30</td>
<td>0.18 1.1 0.8</td>
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<tr>
<td>SRN4012T-150M</td>
<td>15 ± 20 10 24</td>
<td>0.26 0.75 0.65</td>
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<tr>
<td>SRN4012T-220M</td>
<td>22 ± 20 10 18</td>
<td>0.4 0.62 0.5</td>
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<td></td>
</tr>
</tbody>
</table>

Soldering Profile

Operating Temperature
-40 °C to +125 °C (Temperature rise included)

Storage Temperature
-40 °C to +125 °C

Resistance to Solder Heat
+260 °C for 10 sec.

Temperature Rise
40 °C at rated Irms

Rated Current
Inductance drops 30 % at Ilast

Materials
Core: Ferrite
Wire: Enamelled copper
Terminal Finish: Sn
Coating: Magnetic epoxy resin
Packaging: 4500 pcs. per 13-inch reel

Recommended Layout

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**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.

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

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SRN4012T Series - Semi-shielded Power Inductors

Packaging Specifications

DIMENSIONS: MM

QTY: 4500 PCS. PER REEL

USER DIRECTION OF FEED

QTY: 4500 PCS. PER REEL

DIMENSIONS: MM (INCHES)

Asia-Pacific: Tel: +886-2 2562-4117 • Fax: +886-2 2562-4116
EMEA: Tel: +36 88 520 390 • Fax: +36 88 520 211
The Americas: Tel: +1-951 781-5500 • Fax: +1-951 781-5700
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