Features
- Shielded construction
- Metal alloy powder core
- High saturation current
- Flat wire
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP7030CA Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 1 V</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>I rms (A) Typ. 20 °C Temp. Rise</th>
<th>40 °C Temp. Rise</th>
<th>I sat (A) Typ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP7030CA-1R0M</td>
<td>1.0 ± 20 %</td>
<td>35</td>
<td>4.55</td>
<td>5.00</td>
<td>16.1</td>
<td>21.8</td>
<td>30.0</td>
</tr>
<tr>
<td>SRP7030CA-1R5M</td>
<td>1.5 ± 20 %</td>
<td>31</td>
<td>7.50</td>
<td>8.25</td>
<td>12.0</td>
<td>15.3</td>
<td>25.0</td>
</tr>
<tr>
<td>SRP7030CA-2R2M</td>
<td>2.2 ± 20 %</td>
<td>38</td>
<td>12.40</td>
<td>13.70</td>
<td>10.0</td>
<td>13.0</td>
<td>19.0</td>
</tr>
<tr>
<td>SRP7030CA-3R3M</td>
<td>3.3 ± 20 %</td>
<td>22</td>
<td>16.30</td>
<td>18.00</td>
<td>8.0</td>
<td>10.0</td>
<td>15.0</td>
</tr>
<tr>
<td>SRP7030CA-4R7M</td>
<td>4.7 ± 20 %</td>
<td>18</td>
<td>24.20</td>
<td>26.70</td>
<td>6.9</td>
<td>9.0</td>
<td>13.5</td>
</tr>
<tr>
<td>SRP7030CA-5R6M</td>
<td>5.6 ± 20 %</td>
<td>16</td>
<td>30.10</td>
<td>33.20</td>
<td>5.3</td>
<td>7.3</td>
<td>12.5</td>
</tr>
<tr>
<td>SRP7030CA-6R8M</td>
<td>6.8 ± 20 %</td>
<td>14</td>
<td>38.60</td>
<td>42.50</td>
<td>4.5</td>
<td>6.8</td>
<td>12.0</td>
</tr>
<tr>
<td>SRP7030CA-8R2M</td>
<td>8.2 ± 20 %</td>
<td>12</td>
<td>44.30</td>
<td>48.73</td>
<td>3.0</td>
<td>5.9</td>
<td>10.2</td>
</tr>
</tbody>
</table>

Product Dimensions

How to Order
Model: SRP7030CA - 1R5M
Value Code (see table)

Schematic

General Specifications

Operating Temperature
-55 °C to +155 °C (Temperature rise included)
Storage Temperature (Component)
-55 °C to +155 °C
Rated Current Inductance drops 30 % at Isat
Temperature Rise 20 or 40 °C at rated Irms
MSL N/A
ESD Classification (HBM) N/A

Materials
Core Metal alloy powder
Wire Enamelled copper
Terminal Finish Sn
Packaging 1500 pcs. per 13-inch reel

Recommended Layout

WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov
** 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.
Users should verify actual device performance in their specific applications.
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Soldering Profile

PRE-HEATING
T_p (245 °C / 20~40 seconds)

SOLDERING

NATURAL COOLING

60 ~ 180 seconds

60 ~ 150 seconds

480 seconds max.

REFLOW TIMES: 3 MAX.

NOTE: 0.15 mm thick solder paste recommended.

L vs. I Charts

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### Packaging Specifications

**Marking**

- **D/C**

**Dimensions (MM)**

- **16.4 ± 0.2**
- **13.0 ± 0.5**
- **10.0 ± 0.2**
- **330**

**Dimensions (INCHES)**

- **0.646 ± 0.079**
- **0.512 ± 0.020**
- **0.393 ± 0.008**

**QTY: 1,500 PCS PER REEL**

**USER DIRECTION OF FEED**

**DIMENSIONS: MM (INCHES)**

- **0.35 ± 0.10**
- **3.3 ± 0.10**
- **8.2 ± 0.10**
- **4.0 ± 0.10**
- **7.5 ± 0.10**
- **16.0 ± 0.30**

**COVER TAPE**

**EMBOSSED CARRIER**

**Specifications**

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05/19
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