Features

- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- High temperature 180 °C
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

SRP6030VA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 0.1 V</th>
<th>Q @ 100 kHz</th>
<th>SRF (MHz)</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>I rms (A) Typ.</th>
<th>I sat (A) Typ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP6030VA-R47M</td>
<td>0.47 ± 20 %</td>
<td>10</td>
<td>65</td>
<td>3.5</td>
<td>4.0</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>SRP6030VA-R56M</td>
<td>0.56 ± 20 %</td>
<td>10</td>
<td>56</td>
<td>4.2</td>
<td>4.8</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>SRP6030VA-R68M</td>
<td>0.68 ± 20 %</td>
<td>10</td>
<td>50</td>
<td>4.8</td>
<td>5.6</td>
<td>17</td>
<td>19</td>
</tr>
<tr>
<td>SRP6030VA-R82M</td>
<td>0.82 ± 20 %</td>
<td>10</td>
<td>46</td>
<td>5.7</td>
<td>6.8</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td>SRP6030VA-1R0M</td>
<td>1.0 ± 20 %</td>
<td>10</td>
<td>43</td>
<td>6.6</td>
<td>8.0</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>SRP6030VA-1R5M</td>
<td>1.5 ± 20 %</td>
<td>10</td>
<td>32</td>
<td>11.2</td>
<td>13.2</td>
<td>13</td>
<td>14</td>
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<tr>
<td>SRP6030VA-2R2M</td>
<td>2.2 ± 20 %</td>
<td>10</td>
<td>29</td>
<td>21.5</td>
<td>25.8</td>
<td>11</td>
<td>13</td>
</tr>
<tr>
<td>SRP6030VA-3R3M</td>
<td>3.3 ± 20 %</td>
<td>10</td>
<td>22</td>
<td>32.0</td>
<td>37.0</td>
<td>9.0</td>
<td>9.5</td>
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<tr>
<td>SRP6030VA-4R7M</td>
<td>4.7 ± 20 %</td>
<td>10</td>
<td>18</td>
<td>36.0</td>
<td>42.0</td>
<td>7.0</td>
<td>8.5</td>
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<tr>
<td>SRP6030VA-5R6M</td>
<td>5.6 ± 20 %</td>
<td>10</td>
<td>17</td>
<td>36.0</td>
<td>42.0</td>
<td>6.5</td>
<td>7.2</td>
</tr>
<tr>
<td>SRP6030VA-6R8M</td>
<td>6.8 ± 20 %</td>
<td>10</td>
<td>15</td>
<td>43.0</td>
<td>50.0</td>
<td>6.0</td>
<td>6.5</td>
</tr>
<tr>
<td>SRP6030VA-100M</td>
<td>10 ± 20 %</td>
<td>10</td>
<td>12</td>
<td>62.0</td>
<td>66.0</td>
<td>5.0</td>
<td>5.0</td>
</tr>
<tr>
<td>SRP6030VA-150M</td>
<td>15 ± 20 %</td>
<td>10</td>
<td>10</td>
<td>95.0</td>
<td>114.0</td>
<td>4.1</td>
<td>3.2</td>
</tr>
<tr>
<td>SRP6030VA-220M</td>
<td>22 ± 20 %</td>
<td>10</td>
<td>9</td>
<td>140.0</td>
<td>168.0</td>
<td>3.4</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Product Dimensions

<table>
<thead>
<tr>
<th>DIMENSIONS: MM (INCHES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.0 (0.315) REF.</td>
</tr>
<tr>
<td>3.7 (0.146) REF.</td>
</tr>
</tbody>
</table>

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. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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SRP6030VA Series – Shielded Power Inductors

Soldering Profile

**SRP6030VA-R47M**

**SRP6030VA-R56M**

**SRP6030VA-R68M**

**SRP6030VA-R82M**

**SRP6030VA-1R0M**

**SRP6030VA-1R5M**

**SRP6030VA-2R2M**

**SRP6030VA-3R3M**

**SRP6030VA-4R7M**

L vs. I Charts

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**Packaging Specifications**

- **DIMENSIONS: MM**
- **QTY: 1000 PCS PER REEL**

**SRP6080VA Series - Shielded Power Inductors**

**BOURNS**

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

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