Features

- Shielded construction
- Carbonyl powder core
- High saturation current
- Inductance range: 0.1 to 10 µH
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRP5030TA Series - Shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 KHz / 1 V L (µH)</th>
<th>Q (Min.) @ 100 KHz / 1 V</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>Irms (A)</th>
<th>Isat (A)</th>
<th>Terminal Type</th>
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</thead>
<tbody>
<tr>
<td>SRP5030TA-R10Y</td>
<td>0.1 ± 30</td>
<td>5</td>
<td>320</td>
<td>2.5</td>
<td>3</td>
<td>23</td>
<td>27</td>
<td>Lead Frame</td>
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<tr>
<td>SRP5030TA-R22M</td>
<td>0.22 ± 20</td>
<td>5</td>
<td>155</td>
<td>3.7</td>
<td>4.4</td>
<td>15.5</td>
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<tr>
<td>SRP5030TA-R33M</td>
<td>0.33 ± 20</td>
<td>5</td>
<td>110</td>
<td>4.3</td>
<td>5</td>
<td>14</td>
<td>18</td>
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<td>SRP5030TA-R47M</td>
<td>0.47 ± 20</td>
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<td>100</td>
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<td>7.4</td>
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<td>SRP5030TA-R68M</td>
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<td>85</td>
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<td>8.5</td>
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<td>SRP5030TA-1R0M</td>
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<td>62</td>
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<td>14</td>
<td>7</td>
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<td>SRP5030TA-1R2M</td>
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<td>50</td>
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<td>44</td>
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<td>SRP5030TA-2R2M</td>
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<td>SRP5030TA-3R6M</td>
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<tr>
<td>SRP5030TA-5R6M</td>
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</tbody>
</table>

General Specifications

Operating Temperature
-40 °C to +150 °C (Temperature rise included)

Storage Temperature
-40 °C to +125 °C

Rated Current
- Inductance drops 20 % at Isat
- Temperature Rise ....40 °C at rated Irms
- Moisture Sensitivity Level……………1
- ESD Classification (HBM)…………… N/A

1 Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core.........................Carbonyl powder Wire .....................Enamelled copper Terminal Finish..........................Sn

Packaging.....2000 pcs. per 13-inch reel

Product Dimensions

Recommended Layout

** 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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SRP5030TA Series - Shielded Power Inductors

Packaging Specifications

DIMENSIONS: MM (INCHES)  USER DIRECTION OF FEED  QTY: 2000 PCS. PER REEL

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