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

**Applications**
- Automotive systems:
  - Driver assistant
  - Information
  - Entertainment
  - Lighting
- DC/DC converters
- Power supplies

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### 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 Q (Min.)</th>
<th>SRF (MHz)</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 ± 0.3</td>
<td>5</td>
<td>320</td>
<td>2.5</td>
<td>3</td>
<td>23</td>
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<tr>
<td>SRP5030TA-R22M</td>
<td>0.22 ± 0.2</td>
<td>5</td>
<td>155</td>
<td>3.7</td>
<td>4.4</td>
<td>15.5</td>
<td>21</td>
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<tr>
<td>SRP5030TA-R33M</td>
<td>0.33 ± 0.2</td>
<td>5</td>
<td>110</td>
<td>4.3</td>
<td>5</td>
<td>14</td>
<td>18</td>
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<tr>
<td>SRP5030TA-R47M</td>
<td>0.47 ± 0.2</td>
<td>10</td>
<td>100</td>
<td>6.4</td>
<td>7.4</td>
<td>12</td>
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<tr>
<td>SRP5030TA-R68M</td>
<td>0.68 ± 0.2</td>
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<td>85</td>
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<td>10</td>
<td>8.5</td>
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<tr>
<td>SRP5030TA-1R0M</td>
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<td>14</td>
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<td>11</td>
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<tr>
<td>SRP5030TA-1R2M</td>
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<td>50</td>
<td>14</td>
<td>16</td>
<td>6.5</td>
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<tr>
<td>SRP5030TA-1R5M</td>
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<td>44</td>
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<td>25</td>
<td>6</td>
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<td>36</td>
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<td>30</td>
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<tr>
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<tr>
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<td>128</td>
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</tr>
</tbody>
</table>

**General Specifications**
- Operating Temperature: 40 °C to +150 °C
- 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

**Materials**
- Core: Carbonyl powder
- Wire: Enamelled copper
- Terminal Finish: Sn
- Packaging: 2000 pcs. per 13-inch reel

**Product Dimensions**

**Soldering Profile**

**How to Order**

**Recommended Layout**

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