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

**Applications**
- Class-D amplifier systems
- Class-D output filters

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**Electrical Specifications @ 25 °C**

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 1 V</th>
<th>DCR (mΩ) Ref.</th>
<th>DCR (mΩ) Typ.</th>
<th>I rms (A) Typ.</th>
<th>I sat (A) Typ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRF1010DA-R43M</td>
<td>0.43 ± 20 %</td>
<td>60</td>
<td>1.9</td>
<td>2.3</td>
<td>27</td>
</tr>
<tr>
<td>SRF1010DA-5R6M</td>
<td>5.6 ± 20 %</td>
<td>15</td>
<td>20</td>
<td>23</td>
<td>7.5</td>
</tr>
<tr>
<td>SRF1010DA-7R5M</td>
<td>7.5 ± 20 %</td>
<td>14</td>
<td>25</td>
<td>28</td>
<td>6.8</td>
</tr>
<tr>
<td>SRF1010DA-100M</td>
<td>10 ± 20 %</td>
<td>12</td>
<td>30.5</td>
<td>32.6</td>
<td>5.6</td>
</tr>
<tr>
<td>SRF1010DA-150M</td>
<td>15 ± 20 %</td>
<td>10</td>
<td>43.5</td>
<td>45.5</td>
<td>4.6</td>
</tr>
</tbody>
</table>

**Product Dimensions**

![Product Dimensions Diagram](image)

**Recommended Layout**

![Recommended Layout Diagram](image)

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**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: 40 °C at rated Irms

**Materials**

- Core: Metal alloy powder
- Wire: Enamelled copper
- Terminal Finish: Sn/Ni
- Packaging: 300 pcs. per 13-inch reel

**How to Order**

- Model: SRF1010DA - 100M
- Value Code (see table)

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**WARNING** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://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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SRF1010DA Series – Dual-Shielded Inductors for Class-D Amplifiers

Soldering Profile

REWORK TIMES: 3 MAX.

Packaging Specifications

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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