**Bourns**

**AEC-Q200 Compliant**

*RoHS and RoHS Compliant Versions Available*

**RoHS Compliant** Lead Free Versions RoHS Compliant**

**Are RoHS Compliant & AEC Approved**

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**SRF0703A Series - Dual-Winding Shielded Power Inductors**

**Features**

- Multiple configurations: parallel, series, dual-inductor and transformer
- Magnetically shielded, low radiation
- Inductance range: 8.2 to 600 μH
- Heating current up to 2.19 A
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

**Applications**

- DC/DC converters
- Power supplies
- SEPIC - DC/DC converters

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**Electrical Specifications @ 25 °C**

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Parallel Rating</th>
<th>Series Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inductance</td>
<td>DCR (μ) Max.</td>
</tr>
<tr>
<td></td>
<td>@ 100 kHz / L (μH) @20 %</td>
<td>Irms (A)</td>
</tr>
<tr>
<td></td>
<td>0.25 V</td>
<td></td>
</tr>
<tr>
<td>SRF0703A-8R2M</td>
<td>8.2</td>
<td>0.0772</td>
</tr>
<tr>
<td>SRF0703A-100M</td>
<td>10</td>
<td>0.0826</td>
</tr>
<tr>
<td>SRF0703A-150M</td>
<td>15</td>
<td>0.119</td>
</tr>
<tr>
<td>SRF0703A-220M</td>
<td>22</td>
<td>0.15</td>
</tr>
<tr>
<td>SRF0703A-330M</td>
<td>33</td>
<td>0.24</td>
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<td>SRF0703A-470M</td>
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<td>0.338</td>
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<td>SRF0703A-680M</td>
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<td>SRF0703A-820M</td>
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<td>0.61</td>
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<tr>
<td>SRF0703A-101M</td>
<td>100</td>
<td>0.715</td>
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<tr>
<td>SRF0703A-151M</td>
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<td>0.986</td>
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<td>SRF0703A-221M</td>
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<td>1.48</td>
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<td>SRF0703A-331M</td>
<td>330</td>
<td>2.16</td>
</tr>
</tbody>
</table>

**Recommended Layout**

**Electrical Schematics**

**Parallel**

**Dot Indicates Terminal 1**

**Series**

**Applications**

- **SEPIC - DC/DC converters**
- **Power supplies**
- **SEPIC - DC/DC converters**

**Materials**

- Core: ............... Ferrite
- Wire: .............. Enameled copper
- Terminal Finish: ............... Sn
- Packaging: ............... 1500 pcs. per reel

**Product Dimensions**

**Dimensions: MM (Inches)**

**WARNING**

Cancer and Reproductive Harm

[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**SRF0703A Series – Dual-Winding Shielded Power Inductors**

**How to Order**

Model: SRF0703A - 100M

Value Code (see table)

**Inductance vs. IDC**

<table>
<thead>
<tr>
<th>Model</th>
<th>L (µH) @ 25 °C</th>
<th>L (µH) @ 125 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRF0703A-8R2M</td>
<td>10.0</td>
<td>8.0</td>
</tr>
<tr>
<td>SRF0703A-220M</td>
<td>30.0</td>
<td>24.0</td>
</tr>
<tr>
<td>SRF0703A-680M</td>
<td>80.0</td>
<td>70.0</td>
</tr>
<tr>
<td>SRF0703A-151M</td>
<td>200.0</td>
<td>150.0</td>
</tr>
</tbody>
</table>

**Temperature Rise vs. IDC**

<table>
<thead>
<tr>
<th>Model</th>
<th>ΔT @ 25 °C</th>
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</thead>
<tbody>
<tr>
<td>SRF0703A-8R2M</td>
<td>100.0</td>
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<tr>
<td>SRF0703A-220M</td>
<td>80.0</td>
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<tr>
<td>SRF0703A-680M</td>
<td>60.0</td>
</tr>
<tr>
<td>SRF0703A-151M</td>
<td>80.0</td>
</tr>
</tbody>
</table>

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**SRF0703A Series – Dual-Winding Shielded Power Inductors**

**Soldering Profile**

- **Temperature Rising Area**: +4.0 °C/Sec. Max.
- **Preheat Area**: 150-200 °C / 60-120 Sec.
- **Reflow Area**: +3.0 °C/Sec. Max.
- **Forced Cooling Area**: -(0-5.0) °C/Sec. Max.

- **Peak Temperature**: 250 °C max.
- **Max. Peak Temperature -5 °C**: 30 sec. max.
- **Max. Time Above 217 °C**: 90-150 sec. max.

**Packaging Specifications**

- **Dimensions**:
  - 330 mm (12.99") DIA.
  - 2.0 ± 0.5 mm (.079 ± .020")
  - 22.4 mm (.882")
  - 13.0 ± 0.5 mm (.512 ± .020") DIA.
  - 50.0 ± 0.0 mm (1.97 ± .0")
  - 18 ± 0 mm (.709 ± .0")

- **USER DIRECTION OF FEED**
- **QTY**: 1500 PCS. PER REEL
- **DIMENSIONS**: MM (INCHES)

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C1753 05/17/18R