Features
- Shielded construction
- Inductance range: 1 to 100 µH
- Heating current up to 3.6 A
- AEC-Q200 qualified
- RoHS compliant* and halogen free**

SRR3818A 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>SRF (MHz) Typ.</th>
<th>DCR (mΩ)</th>
<th>I rms1 (A) Typ.</th>
<th>I rms2 (A) Typ.</th>
<th>I sat (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRR3818A-1R0Y</td>
<td>1.0 ± 30</td>
<td>165</td>
<td>27.5</td>
<td>37</td>
<td>2.75</td>
<td>3.6</td>
</tr>
<tr>
<td>SRR3818A-1R5Y</td>
<td>1.5 ± 30</td>
<td>125</td>
<td>33</td>
<td>47</td>
<td>2.5</td>
<td>3.1</td>
</tr>
<tr>
<td>SRR3818A-2R2Y</td>
<td>2.2 ± 30</td>
<td>95</td>
<td>45.5</td>
<td>60</td>
<td>2</td>
<td>2.6</td>
</tr>
<tr>
<td>SRR3818A-2R7Y</td>
<td>2.7 ± 30</td>
<td>90</td>
<td>49.5</td>
<td>65</td>
<td>1.9</td>
<td>2.5</td>
</tr>
<tr>
<td>SRR3818A-3R3Y</td>
<td>3.3 ± 30</td>
<td>75</td>
<td>64.5</td>
<td>85</td>
<td>1.7</td>
<td>2.1</td>
</tr>
<tr>
<td>SRR3818A-3R9Y</td>
<td>3.9 ± 30</td>
<td>70</td>
<td>80</td>
<td>105</td>
<td>1.6</td>
<td>2</td>
</tr>
<tr>
<td>SRR3818A-4R7Y</td>
<td>4.7 ± 30</td>
<td>60</td>
<td>90</td>
<td>120</td>
<td>1.5</td>
<td>1.9</td>
</tr>
<tr>
<td>SRR3818A-6R8Y</td>
<td>6.8 ± 30</td>
<td>50</td>
<td>125</td>
<td>160</td>
<td>1.25</td>
<td>1.6</td>
</tr>
<tr>
<td>SRR3818A-100M</td>
<td>10 ± 20</td>
<td>40</td>
<td>180</td>
<td>235</td>
<td>1</td>
<td>1.3</td>
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<tr>
<td>SRR3818A-150M</td>
<td>15 ± 20</td>
<td>30</td>
<td>260</td>
<td>340</td>
<td>0.8</td>
<td>1.05</td>
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<tr>
<td>SRR3818A-220M</td>
<td>22 ± 20</td>
<td>25</td>
<td>395</td>
<td>500</td>
<td>0.65</td>
<td>0.8</td>
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<tr>
<td>SRR3818A-330M</td>
<td>33 ± 20</td>
<td>20</td>
<td>590</td>
<td>740</td>
<td>0.5</td>
<td>0.65</td>
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<tr>
<td>SRR3818A-470M</td>
<td>47 ± 20</td>
<td>15</td>
<td>825</td>
<td>1030</td>
<td>0.45</td>
<td>0.56</td>
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<tr>
<td>SRR3818A-680M</td>
<td>68 ± 20</td>
<td>13</td>
<td>1280</td>
<td>1600</td>
<td>0.38</td>
<td>0.46</td>
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<tr>
<td>SRR3818A-101M</td>
<td>100 ± 20</td>
<td>11</td>
<td>2040</td>
<td>2600</td>
<td>0.28</td>
<td>0.34</td>
</tr>
</tbody>
</table>

General Specifications
- Operating Temp.: -40 °C to +150 °C (Temperature rise included)
- Storage Temperature: -40 °C to +150 °C
- Temperature Rise: 20 °C typ. at rated Irms1; 40 °C typ. at rated Irms2
- Rated Current: .......................... Inductance drops 35 % at I sat
- Moisture Sensitivity Level:...............1 ESD Classification (HBM):..............N/A

Materials
- Core:....................................Ferrite
- Wire:.................................Enamelled copper
- Terminal Finish:.........................Sn
- Packaging:...... 1000 pcs. per 7-inch reel

Product Dimensions

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.
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SRR3818A Series - Shielded Power Inductors

Inductance vs. IDC (Continued)

Temperature vs. IDC
Temperature vs. IDC (Continued)

- SRR3818A-150M
- SRR3818A-220M
- SRR3818A-330M
- SRR3818A-470M
- SRR3818A-680M
- SRR3818A-101M

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Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com
EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com
The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com
www.bourns.com
SRR3818A Series - Shielded Power Inductors

Soldering Profile

Temperature Rising Area  
Preheat Area  
Reflow Area  
Forced Cooling Area

Temperature (°C)

Time (Seconds)

Peak Temperature: 260 °C

Packaging Specifications

QTY: 1000 PCS. PER REEL

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