Features
- Shielded construction
- Metal alloy powder core
- High saturation current
- Low buzz noise
- Inductance range 0.1 to 10 µH
- RoHS compliant* and halogen free**

SRP3020C Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 1 V</th>
<th>Q Min. @ 100 kHz</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Typ.</th>
<th>Irms (A) Typ.</th>
<th>I sat (A) Typ.</th>
<th>Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP3020C-R10Y</td>
<td>0.10 ± 30 %</td>
<td>10</td>
<td>208</td>
<td>6.5</td>
<td>7</td>
<td>10</td>
<td>.10H</td>
</tr>
<tr>
<td>SRP3020C-R22Y</td>
<td>0.22 ± 30 %</td>
<td>10</td>
<td>140</td>
<td>11.5</td>
<td>14</td>
<td>8</td>
<td>9.2 .22H</td>
</tr>
<tr>
<td>SRP3020C-R36M</td>
<td>0.36 ± 20 %</td>
<td>10</td>
<td>105</td>
<td>17</td>
<td>21</td>
<td>7</td>
<td>8 .36H</td>
</tr>
<tr>
<td>SRP3020C-R47M</td>
<td>0.47 ± 20 %</td>
<td>10</td>
<td>83</td>
<td>19.7</td>
<td>23</td>
<td>6</td>
<td>7 .47H</td>
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<tr>
<td>SRP3020C-R68M</td>
<td>0.68 ± 20 %</td>
<td>10</td>
<td>72</td>
<td>24</td>
<td>29</td>
<td>5.5</td>
<td>6 .68H</td>
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<tr>
<td>SRP3020C-1R0M</td>
<td>1.0 ± 20 %</td>
<td>10</td>
<td>66</td>
<td>30</td>
<td>36</td>
<td>5</td>
<td>5.5 1.0H</td>
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<tr>
<td>SRP3020C-1R5M</td>
<td>1.5 ± 20 %</td>
<td>10</td>
<td>50</td>
<td>44</td>
<td>50</td>
<td>3.7</td>
<td>4 1.5H</td>
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<tr>
<td>SRP3020C-2R2M</td>
<td>2.2 ± 20 %</td>
<td>10</td>
<td>47</td>
<td>65</td>
<td>75</td>
<td>3.5</td>
<td>3.7 2.2H</td>
</tr>
<tr>
<td>SRP3020C-3R3M</td>
<td>3.3 ± 20 %</td>
<td>10</td>
<td>44</td>
<td>125</td>
<td>145</td>
<td>2.6</td>
<td>2.8 3.3H</td>
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<tr>
<td>SRP3020C-4R7M</td>
<td>4.7 ± 20 %</td>
<td>10</td>
<td>29</td>
<td>167</td>
<td>200</td>
<td>1.8</td>
<td>2 4.7H</td>
</tr>
<tr>
<td>SRP3020C-5R6M</td>
<td>5.6 ± 20 %</td>
<td>10</td>
<td>28</td>
<td>205</td>
<td>238</td>
<td>1.7</td>
<td>1.9 5.6H</td>
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<tr>
<td>SRP3020C-6R8M</td>
<td>6.8 ± 20 %</td>
<td>10</td>
<td>27</td>
<td>260</td>
<td>300</td>
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<td>1.8 6.8H</td>
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<tr>
<td>SRP3020C-8R2M</td>
<td>8.2 ± 20 %</td>
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<td>27</td>
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<td>390</td>
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<td>1.4 8.2H</td>
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<td>SRP3020C-100M</td>
<td>10 ± 20 %</td>
<td>10</td>
<td>26</td>
<td>380</td>
<td>422</td>
<td>1.3</td>
<td>1.3 10H</td>
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Product Dimensions

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Typical Part Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP3020C</td>
<td>2.2H</td>
</tr>
</tbody>
</table>

General Specifications

Operating Temperature
-40 °C to +125 °C (Temperature rise included)

Storage Temperature (Component)
-40 °C to +125 °C

Rated Current
Inductance drops 30 % at Isat

Temperature Rise
40 °C at rated Irms

MSL
1

ESD Classification (HBM)
N/A

How to Order

How to Order

Recommended Layout

Schematic

WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov
SRP3020C Series – Shielded Power Inductors

Soldering Profile

PRE-HEATING  SOLDERING  NATURAL COOLING

TP (260 °C / 10 seconds max.)

REFLOW TIMES: 3 MAX.

L vs. I Charts
Packaging Specifications

**DIMENSIONS:**  
**MM** (INCHES)

- **12.4 ±0/0**  
- **13.0 ±0.5/-0.2**  
- **100 ±2**  
- **330**  
- **13 ±0/0**  
- **3.8 ±0.1**  
- **3.5 ±0.1**  
- **8.0 ±0.1**  
- **5.5 ±0.1**  
- **1.2 ±0.1**  
- **0.35 ±0.05**

**QTY:** 3,000 PCS PER REEL

**USER DIRECTION OF FEED**

**REV. 05/22**

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