SRP2010DPA Series - Shielded Power Inductors

Features
- Shielded construction for low radiation
- Metal alloy powder core for high saturation current
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 1 MHz / 1 V</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>Irms (A) Typ.</th>
<th>Isat (A) Typ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP2010DPA-R47M</td>
<td>0.47</td>
<td>29</td>
<td>40</td>
<td>3.60</td>
<td>4.50</td>
</tr>
<tr>
<td>SRP2010DPA-R56M</td>
<td>0.56</td>
<td>42</td>
<td>57</td>
<td>3.00</td>
<td>4.00</td>
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<tr>
<td>SRP2010DPA-1R0M</td>
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<td>57</td>
<td>70</td>
<td>2.60</td>
<td>3.40</td>
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<tr>
<td>SRP2010DPA-1R5M</td>
<td>1.5</td>
<td>83</td>
<td>110</td>
<td>2.10</td>
<td>2.80</td>
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<tr>
<td>SRP2010DPA-2R2M</td>
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<td>137</td>
<td>168</td>
<td>1.60</td>
<td>2.20</td>
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<tr>
<td>SRP2010DPA-3R3M</td>
<td>3.3</td>
<td>202</td>
<td>225</td>
<td>1.40</td>
<td>1.90</td>
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<tr>
<td>SRP2010DPA-4R7M</td>
<td>4.7</td>
<td>315</td>
<td>360</td>
<td>1.10</td>
<td>1.50</td>
</tr>
</tbody>
</table>

Soldering Profile

Temperature (°C)

Reflow Area

+5 °C/sec. max.

Preheat Area

150 - 180 °C
60 - 120 sec.

Soldering Area

30 sec. max.

Forced Cooling Area

-5 °C/sec. max.

Peak Temperature: 260 °C

WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Additional Information

Click these links for more information:

- PRODUCT SELECTOR
- TECHNICAL LIBRARY
- INVENTORY SAMPLES CONTACT

General Specifications

Operating Temperature

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

Storage Temperature (Component)

-40 °C to +125 °C

Temperature Rise... 40 °C at rated Irms'

Rated Current

Moisture Sensitivity Level..............1

ESD Classification (HBM)..............N/A

Materials

Core..........................Metal alloy powder
Wire..................................Enameled copper
Terminal Finish .................Ni/Sn
Packaging..............3000 pcs. per 7-inch reel

Electrical Schematic

How to Order

SRP2010DPA  -  R47M

Model

Value Code (see table)

Product Dimensions

Recommended Layout

DIMENSIONS: MM (INCHES)

<table>
<thead>
<tr>
<th>Model</th>
<th>Value Code (see table)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP2010DPA - R47M</td>
<td></td>
</tr>
</tbody>
</table>
SRP2010DPA Series - Shielded Power Inductors

Packaging Specifications

Dimensions: MM (INCHES)  
USER DIRECTION OF FEED  
QTY: 3,000 PCS PER REEL

END  4 (.157)  4 (.157)  START

LEADER NO COMPONENT  200 (7.874) MIN.  COMPONENTS  TRAILER NO COMPONENT  400 (15.748) MIN.

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