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

SRP6060FA Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part Number</th>
<th>Inductance @ 100 kHz / 1 V L (μH)</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>I rms (A) Typ. 20 °C Temp. Rise</th>
<th>I sat (A) Typ. 40 °C Temp. Rise</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP6060FA-4R7M</td>
<td>4.70 ± 20 %</td>
<td>24</td>
<td>13.1</td>
<td>14.4</td>
<td>8.0</td>
<td>11.0</td>
</tr>
<tr>
<td>SRP6060FA-5R6M</td>
<td>5.60 ± 20 %</td>
<td>18</td>
<td>14.3</td>
<td>15.8</td>
<td>7.5</td>
<td>10.0</td>
</tr>
<tr>
<td>SRP6060FA-6R8M</td>
<td>6.80 ± 20 %</td>
<td>16</td>
<td>18.9</td>
<td>20.8</td>
<td>7.0</td>
<td>9.0</td>
</tr>
<tr>
<td>SRP6060FA-8R2M</td>
<td>8.20 ± 20 %</td>
<td>14</td>
<td>22.5</td>
<td>24.8</td>
<td>6.0</td>
<td>8.0</td>
</tr>
<tr>
<td>SRP6060FA-100M</td>
<td>10.0 ± 20 %</td>
<td>12</td>
<td>26.6</td>
<td>29.3</td>
<td>5.0</td>
<td>7.0</td>
</tr>
<tr>
<td>SRP6060FA-150M</td>
<td>15.0 ± 20 %</td>
<td>11</td>
<td>39.0</td>
<td>43.0</td>
<td>4.5</td>
<td>6.0</td>
</tr>
<tr>
<td>SRP6060FA-220M</td>
<td>22.0 ± 20 %</td>
<td>10</td>
<td>55.0</td>
<td>60.5</td>
<td>3.8</td>
<td>5.0</td>
</tr>
</tbody>
</table>

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
-20 or 40 °C at rated Irms

MSL
- N/A

Materials
Core..............Metal alloy powder
Wire.................Enamelled copper
Terminal Finish..............Sn
Packaging......750 pcs. per 13-inch reel

Recommended Layout

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

** Bourns follows the prevailing definition of “halogen free” in the industry. 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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Soldering Profile

PRE-HEATING

T_p (245 °C / 20-40 seconds)

60 - 180 seconds

60 - 150 seconds

480 seconds max.

SOLDERING

NATURAL COOLING

REFLOW TIMES: 3 MAX.

NOTE: 0.15 mm thick solder paste recommended.

L vs. I Charts

SRP6060FA-4R7M

SRP6060FA-5R6M

SRP6060FA-6R8M

SRP6060FA-8R2M

SRP6060FA-100M

SRP6060FA-150M

SRP6060FA-220M

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Packaging Specifications

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