## SMD Shielded Power Chip Inductor

### PCFV68

<table>
<thead>
<tr>
<th>Allied Part Number</th>
<th>Inductance (µH)</th>
<th>Tolerance (%)</th>
<th>Test Freq. 100kHz, V</th>
<th>RDC (mΩ) ±30%</th>
<th>Isat (A) (Max)</th>
<th>Irms (A) (Max)</th>
<th>Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCFV68-1R0M-RC</td>
<td>1.0</td>
<td>20</td>
<td>1</td>
<td>12</td>
<td>7.11</td>
<td>5.67</td>
<td>1R0</td>
</tr>
<tr>
<td>PCFV68-1R5M-RC</td>
<td>1.5</td>
<td>20</td>
<td>1</td>
<td>15</td>
<td>6.30</td>
<td>4.95</td>
<td>1R5</td>
</tr>
<tr>
<td>PCFV68-2R2M-RC</td>
<td>2.2</td>
<td>20</td>
<td>1</td>
<td>20</td>
<td>5.40</td>
<td>4.50</td>
<td>2R2</td>
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<tr>
<td>PCFV68-4R7M-RC</td>
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<td>20</td>
<td>1</td>
<td>36</td>
<td>3.60</td>
<td>3.40</td>
<td>4R7</td>
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<tr>
<td>PCFV68-6R8M-RC</td>
<td>6.8</td>
<td>20</td>
<td>1</td>
<td>48</td>
<td>2.88</td>
<td>2.70</td>
<td>6R8</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

### Features

- Semi Shielded Shielded
- High Current
- Low DC Resistance
- Ultra Low Profile, 2.8mm

### Electrical

**Inductance Range:** 1.0µH ~ 6.8µH (other values being added)

**Tolerance:** Available in 20%

**Operating Temp:** -55°C ~ +125°C

**Isat:** Current at which the Inductance will drop by no more than 30% of its initial value.

**Irms:** Based on a temp rise of ΔT = 40°C typical above Ambient Temp.

### Resistance to Soldering Heat

Pre-Heat 150°C, 1 Min.

**Solder Composition:** Sn/Ag3.0/Cu0.5

**Solder Temp:** 260°C +/- 5°C for 10 sec

### Test Equipment

(L): HP4287A + HP16197A

(RDC): Chroma MilliOhm Meter 16502

Current: HP4284A + HP42841A

### Physical

**Packaging:** 1500 per Tape and reel

**Marking:** EIA Inductance code