SMD SEMI SHIELDED POWER CHIP INDUCTOR

PCFV42

Features

- Semi Magnetically Shielded
- High Current
- Low DC Resistance
- Ultra Low Profile, 1.2mm

Electrical

- **Inductance Range:** 3.3µH ~ 10µH (other values being added)
- **Tolerance:** Available in 20%
- **Operating Temp:** -40°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:** 1000 per Tape and reel
- **Marking:** EIA Inductance Code

### Allied Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inductance (µH)</th>
<th>Tolerance (%)</th>
<th>Test Freq. (MHz, 200mV)</th>
<th>RDC (mΩ) ±30%</th>
<th>Isat (A) (Max)</th>
<th>Irms (A) (Max)</th>
<th>Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCFV42-3R3M-RC</td>
<td>3.3</td>
<td>20</td>
<td>1</td>
<td>.072</td>
<td>1.21</td>
<td>1.68</td>
<td>3R3</td>
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<td>1</td>
<td>.195</td>
<td>0.60</td>
<td>0.96</td>
<td>100</td>
</tr>
</tbody>
</table>

All specifications subject to change without notice.

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Dimensions: Inches (mm)

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