Shielded Power Chip Inductor  PCS8D43

Dimensions:  Inches (mm)

<table>
<thead>
<tr>
<th>Allied Part Number</th>
<th>Inductance (µH)</th>
<th>Tolerance (%)</th>
<th>Test Freq. KHz, 0.1V</th>
<th>DCR (mΩ) Max.</th>
<th>Rated Current (A) Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCS8D43-R68N-RC</td>
<td>.68</td>
<td>30</td>
<td>100</td>
<td>9.5</td>
<td>9.00</td>
</tr>
<tr>
<td>PCS8D43-1R2N-RC</td>
<td>1.2</td>
<td>30</td>
<td>100</td>
<td>12.2</td>
<td>8.00</td>
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<tr>
<td>PCS8D43-2R0N-RC</td>
<td>2.0</td>
<td>30</td>
<td>100</td>
<td>14</td>
<td>7.00</td>
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<tr>
<td>PCS8D43-3R9N-RC</td>
<td>3.9</td>
<td>30</td>
<td>100</td>
<td>19</td>
<td>5.90</td>
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<tr>
<td>PCS8D43-4R7N-RC</td>
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<td>30</td>
<td>100</td>
<td>22</td>
<td>5.60</td>
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<tr>
<td>PCS8D43-6R8N-RC</td>
<td>6.8</td>
<td>30</td>
<td>100</td>
<td>25</td>
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<tr>
<td>PCS8D43-100N-RC</td>
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<td>100</td>
<td>36</td>
<td>4.00</td>
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<tr>
<td>PCS8D43-150N-RC</td>
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<td>30</td>
<td>100</td>
<td>53</td>
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<td>PCS8D43-220N-RC</td>
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<td>100</td>
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<td>PCS8D43-330N-RC</td>
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<td>100</td>
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<td>PCS8D43-470N-RC</td>
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<td>100</td>
<td>150</td>
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<td>PCS8D43-680N-RC</td>
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<td>30</td>
<td>100</td>
<td>240</td>
<td>1.50</td>
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<tr>
<td>PCS8D43-101N-RC</td>
<td>100</td>
<td>30</td>
<td>100</td>
<td>360</td>
<td>1.30</td>
</tr>
</tbody>
</table>

Tolerance: also available in: K=10% and M=20%
All specifications subject to change without notice.

**Features**

- SMD Power Inductor
- Magnetically shielded
- Low DC resistance
- High Current
- Ideal for DC-DC converter applications

**Electrical**

- **Inductance Range:** .68µH to 100µH, Available in additional values
- **Tolerance:** 30% over entire range Also, available in tighter tolerances
- **Operating Temp:** -40ºC to +125ºC
- **Storage Temp:** -40ºC ~ +125ºC
- **Rated Current:** Current at which inductance drop by no more than 35% of initial value or the temperature has risen by 40ºC which ever occurs first

**Resistance to Soldering Heat**

- Pre-Heat 150ºC, 1 Min.
- **Solder Composition:** Sn/Ag3.0/Cu0.5
- **Solder Temp:** 260ºC +/- 5ºC for 10 sec. +/- 1 sec.

**Test Equipment**

- (L): HP4287 LCR Meter or equal
- (RDC): CH502BC or equal
- (Current): VR126G / 7220 Meter

**Physical**

- **Packaging:** 800 pieces per 13 inch reel.
- **Marking:** EIA Inductance Code

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**Recommended Reflow Solder Profile**

**Physical**

**Packaging:** 800 pieces per 13 inch reel.
**Marking:** EIA Inductance Code

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**RoHS**

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