**Power Chip Shielded Inductors PCSLR2D18**

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**Features**

- Shielded SMD Power Inductor
- Low DC Resistance
- Ideal for use in DC-DC converter applications

**Electrical**

- **Inductance Range**: 2.2µH to 47µH
- **Tolerance**: Available in 20% and 30%
- **Operating Temp.**: -30°C ~ +100°C
- **IDC**: Current at which inductance drops by 10% of initial value
- **I_temp current**: Value obtained when current flows and the temperature has risen to 40°C

**Resistance to Soldering Heat**

Pre-Heat 150°C, 1 minute.

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

**Solder Temp.**: 260°C ± 5°C for 10 sec. ± 1 sec.

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<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inductance (µH)</th>
<th>Tolerance (%)</th>
<th>Test Freq. (kHz, 1V)</th>
<th>DCR (Ω) Max</th>
<th>Rated Current (A)</th>
<th>Irms (A) Max</th>
<th>Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCSLR2D18-2R2_-RC</td>
<td>2.2</td>
<td>30</td>
<td>100</td>
<td>0.041</td>
<td>0.85</td>
<td>2.30</td>
<td>CC</td>
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<tr>
<td>PCSLR2D18-3R3_-RC</td>
<td>3.3</td>
<td>30</td>
<td>100</td>
<td>0.054</td>
<td>0.75</td>
<td>2.10</td>
<td>DD</td>
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<tr>
<td>PCSLR2D18-4R7_-RC</td>
<td>4.7</td>
<td>30</td>
<td>100</td>
<td>0.078</td>
<td>0.63</td>
<td>1.65</td>
<td>EH</td>
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<td>PCSLR2D18-6R8_-RC</td>
<td>6.8</td>
<td>30</td>
<td>100</td>
<td>0.106</td>
<td>0.52</td>
<td>1.32</td>
<td>GI</td>
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<tr>
<td>PCSLR2D18-100_-RC</td>
<td>10</td>
<td>30</td>
<td>100</td>
<td>0.180</td>
<td>0.43</td>
<td>1.00</td>
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<td>PCSLR2D18-150_-RC</td>
<td>15</td>
<td>30</td>
<td>100</td>
<td>0.220</td>
<td>0.35</td>
<td>0.80</td>
<td>MA</td>
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<tr>
<td>PCSLR2D18-220_-RC</td>
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<td>100</td>
<td>0.320</td>
<td>0.30</td>
<td>0.68</td>
<td>LA</td>
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<td>100</td>
<td>0.460</td>
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<td>0.56</td>
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<td>PCSLR2D18-470_-RC</td>
<td>47</td>
<td>30</td>
<td>100</td>
<td>0.660</td>
<td>0.20</td>
<td>0.48</td>
<td>OA</td>
</tr>
</tbody>
</table>

*For 20% insert “M”, for 30% insert “T”  All specifications subject to change without notice.

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**Dimensions**

- **Length**: 0.125 (3.2)
- **Width**: 0.125 (3.2)
- **Height**: 0.083 (2.1)
- **Thickness**: 0.039 (1.0)
- **Max**

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**Marking**

- As Shown

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**Pre-Heat**

- 150°C, 1 minute.

**Solder Composition**

- Sn/Ag3.0/Cu0.5

**Solder Temp.**

- 260°C ± 5°C for 10 sec. ± 1 sec.

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**Test Equipment**

- **(L)**: PM3260A / HP4284A / HP4285A
- **(RDC)**: Chen Hwa 5028C
- **(IDC)**: HP4284 + HP42841A / Chen Hwa 1061 + 301A

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**Physical**

- **Packaging**: 1000 pieces per 7 inch reel.
- **Marking**: As Shown