Shielded Power Inductors – SER1360

The SER1360 series provides exceptionally high current carrying capability (up to 43 Amps) and very low DC resistance, all in a low profile, small footprint package.

The part’s magnetic shielding and 13 × 13 mm base allow high density mounting while the flat wire winding keeps the overall height to just 6 mm.

In addition to the standard values show, custom values are available to meet specific applications.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance (µH)</th>
<th>DCR (mOhm)</th>
<th>SRF (MHz)</th>
<th>Isat (A)</th>
<th>Irms (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SER1360-331KL</td>
<td>0.33</td>
<td>0.77</td>
<td>0.85</td>
<td>200</td>
<td>36</td>
</tr>
<tr>
<td>SER1360-651KL</td>
<td>0.65</td>
<td>0.77</td>
<td>0.85</td>
<td>160</td>
<td>23</td>
</tr>
<tr>
<td>SER1360-102KL</td>
<td>1.0</td>
<td>2.36</td>
<td>2.60</td>
<td>75</td>
<td>32</td>
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<tr>
<td>SER1360-182KL</td>
<td>1.8</td>
<td>2.36</td>
<td>2.60</td>
<td>50</td>
<td>17</td>
</tr>
<tr>
<td>SER1360-272KL</td>
<td>2.7</td>
<td>2.36</td>
<td>2.60</td>
<td>42</td>
<td>12</td>
</tr>
<tr>
<td>SER1360-402KL</td>
<td>4.0</td>
<td>5.50</td>
<td>6.05</td>
<td>34</td>
<td>11</td>
</tr>
<tr>
<td>SER1360-472KL</td>
<td>4.7</td>
<td>5.50</td>
<td>6.05</td>
<td>32</td>
<td>9.5</td>
</tr>
<tr>
<td>SER1360-602KL</td>
<td>6.0</td>
<td>5.50</td>
<td>6.05</td>
<td>28</td>
<td>8.0</td>
</tr>
<tr>
<td>SER1360-802KL</td>
<td>8.0</td>
<td>9.83</td>
<td>10.81</td>
<td>26</td>
<td>7.5</td>
</tr>
<tr>
<td>SER1360-103KL</td>
<td>10</td>
<td>9.83</td>
<td>10.81</td>
<td>24</td>
<td>6.2</td>
</tr>
</tbody>
</table>

1. When ordering, please specify termination and packaging codes:

   SER1360-103KLD

   Termination: L = RoHS compliant tin-silver-copper over copper over tin over nickel over phos-bronze. Special order: T = RoHS tin-silver-copper over copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

   Packaging: D = 13” machine-ready reel, EIA-481 embossed plastic tape (500 parts per full reel).
   B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

2. Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A or equivalent.
3. DCR measured on a micro-ohmmeter.
4. SRF measured using an Agilent/HP 4395A network analyzer and an Agilent/HP 16193A test fixture.
5. DC current at 25°C that causes the specified inductance drop from its value without current. Click for temperature derating information.
6. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. Click for temperature derating information.
7. Electrical specifications at 25°C. Refer to Doc 362 “Soldering Surface Mount Components” before soldering.
Shielded Power Inductors - SER1360 Series

Typical L vs Frequency

Typical L vs Current

Temperature Rise vs Current

Terminal 3 is for mounting stability only.

Recommended Land Pattern

Dimensions are in inches

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