Features
- Monolithic construction offering high reliability
- Magnetically shielded construction providing low radiation
- Low DC resistance
- Low profile
- RoHS compliant*

CVH160808 Series – Multilayer Power Chip Inductors

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns® Part No.</th>
<th>Inductance @ 1 MHz / 0.1 V</th>
<th>SRF (MHz)</th>
<th>DCR (Ohms)</th>
<th>IDC (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L (µH) Tol. Typ. ±25 % Typ.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CVH160808-R24M</td>
<td>0.24 ±20 % 90 0.100 1200</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CVH160808-R47M</td>
<td>0.47 ±20 % 70 0.100 1200</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CVH160808-1R0M</td>
<td>1.00 ±20 % 60 0.200 950</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CVH160808-2R2M</td>
<td>2.20 ±20 % 50 0.300 750</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Soldering Profile (Lead Free Solder)

Operating Temperature...
-40 °C to +85 °C
(Temperature rise included)

Storage Temperature...
-40 °C to +85 °C
Temperature Rise...
40 °C at rated current

Moisture Sensitivity Level...
1
ESD Classification (HBM)...
N/A

Materials
Core...
Ferrite
Terminal...
Ag/Ni/Sn
Packaging...
4000 pcs. per 7 inch reel

Product Dimensions

Schematic

Recommended Layout

WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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CVH160808 Series – Multilayer Power Chip Inductors

Packaging Specifications

**DIMENSIONS:**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>110.0 ± 0.50</td>
<td>DIA.</td>
<td>(4.33 ± .020)</td>
<td></td>
</tr>
<tr>
<td>178 ± 1.0</td>
<td>DIA.</td>
<td>(7.008 ± .039)</td>
<td></td>
</tr>
<tr>
<td>9.0 ± 0.5</td>
<td>DIA.</td>
<td>(0.354 ± .020)</td>
<td></td>
</tr>
<tr>
<td>8.00 ± 0.10</td>
<td>(0.315 ± .004)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.00 ± 0.10</td>
<td>(0.157 ± .004)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.97 ± 0.05</td>
<td>(0.038 ± .002)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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