High Current Inductor For Digital AMP
- CPD1495 Series

Outline:
产品概要
- Magnetic shielded structure: excellent resistance to electromagnetic interference (EMI)
  磁屏蔽结构：抗电磁干扰(EMI)性能强
- Assemblage design, sturdy structure.
  组立式设计，结构坚固。
- High inductance, high current, low magnetic loss, low ESR, small parasitic capacitance.
  高电感值，大电流，低磁损，低阻抗，寄生电容小。
- High temperature wire, closed magnetic circuit, ultra low buzz noise.
  耐高温铜线，磁路闭合，超低蜂鸣噪音。
- Operating temperature: -40°C ~ +125°C (Including coil's temperature rise)
  工作温度: -40°C ~ +125°C (包含线圈发热)

1 Appearance and dimensions (mm)
外形尺寸

<table>
<thead>
<tr>
<th>Part No.</th>
<th>4R7 – 8R2</th>
<th>100 – 150</th>
<th>220 – 330</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension A</td>
<td>0.50</td>
<td>0.43</td>
<td>0.30</td>
</tr>
<tr>
<td>Dimension B</td>
<td>0.90</td>
<td>0.80</td>
<td>0.60</td>
</tr>
</tbody>
</table>

2 Marking
印字标识

3 Reference hole pattern (mm)
参考焊孔尺寸

4 Schematic
原理图

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### 5 Electrical characteristics

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Inductance (μH)</th>
<th>D.C.R. (mΩ)</th>
<th>Saturation current (A)</th>
<th>Temperature rise current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>±20% Typical</td>
<td>Max</td>
<td>Typical</td>
<td>Typical</td>
</tr>
<tr>
<td>CPD1495-4R7M</td>
<td>4.70</td>
<td>5.50</td>
<td>21.0</td>
<td>14.0</td>
</tr>
<tr>
<td>CPD1495-6R8M</td>
<td>6.80</td>
<td>5.90</td>
<td>17.0</td>
<td>12.0</td>
</tr>
<tr>
<td>CPD1495-8R2M</td>
<td>8.20</td>
<td>6.80</td>
<td>16.0</td>
<td>11.0</td>
</tr>
<tr>
<td>CPD1495-100M</td>
<td>10.0</td>
<td>7.70</td>
<td>15.0</td>
<td>10.0</td>
</tr>
<tr>
<td>CPD1495-120M</td>
<td>12.0</td>
<td>7.70</td>
<td>11.5</td>
<td>10.0</td>
</tr>
<tr>
<td>CPD1495-150M</td>
<td>15.0</td>
<td>7.70</td>
<td>9.50</td>
<td>10.0</td>
</tr>
<tr>
<td>CPD1495-220M</td>
<td>22.0</td>
<td>14.0</td>
<td>9.00</td>
<td>7.00</td>
</tr>
<tr>
<td>CPD1495-330M</td>
<td>33.0</td>
<td>14.0</td>
<td>6.20</td>
<td>7.00</td>
</tr>
</tbody>
</table>

- All data is tested based on 25°C ambient temperature.
- Inductance measure condition at 1kHz, 0.25V.
- Saturation current: the actual value of DC current when the inductance decrease 20% of its initial value.
- Temperature rise current: the actual value of DC current when the temperature rise is ΔT40°C(Ta=25°C).

Special remind: Circuit design, component placement, PWB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

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6 Saturation current VS temperature rise current curve  
饱和电流 VS 温升电流曲线

![Graphs of saturation current versus temperature rise current curve for CPD1495 Series inductors.](image)

Satisfaction current VS temperature rise current curve  
饱和电流 VS 温升电流曲线

- CPD1495-4R7ML (μH) ΔT (°C)  
  - Idc (A)

- CPD1495-6R8ML (μH) ΔT (°C)  
  - Idc (A)

- CPD1495-8R2ML (μH) ΔT (°C)  
  - Idc (A)

- CPD1495-100ML (μH) ΔT (°C)  
  - Idc (A)

- CPD1495-120ML (μH) ΔT (°C)  
  - Idc (A)

- CPD1495-150ML (μH) ΔT (°C)  
  - Idc (A)

- CPD1495-220ML (μH) ΔT (°C)  
  - Idc (A)

- CPD1495-330ML (μH) ΔT (°C)  
  - Idc (A)
7 Packing specification
包裝規格
7.1 Plastic tray dimensions (mm)
吸塑盤尺寸

246 (24X9)=216
28
24
23
15
11
196 (28X5)=140
7.2 Packing

包装

图示:

Tray × 15

Bundle × 1

7.3 Carton dimensions and packing quantity

包装箱尺寸和包装数量

<table>
<thead>
<tr>
<th>Product Series</th>
<th>Quantity / Tray</th>
<th>Quantity / Bundle</th>
<th>Out Carton Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPD1495</td>
<td>60pcs</td>
<td>(60×15) = 900pcs</td>
<td>(900×1) = 900pcs</td>
</tr>
</tbody>
</table>

7.4 Label making

标签标识

The following items will be marked on the tray of product label and shipping label.
以下项目将明确标识于产品吸塑盘标签以及运输标签上。

**Production Label**

产品标签

- Part No. 产品型号
- Electrical Information 产品电性信息
- Quantity 数量
- Packing No. 包装流水号

**Shipping Label**

运输标签

- Customer Name 客户名称
- Customer Part No. 客户型号
- Supplier Part No. 供应商型号
- Supplier Name 供应商名称
- Country of origin 产品产地