High Current Power Inductor  
-CPCF2016A Series

Outline:

- Assemblage design, sturdy structure.
- High inductance, high current, low magnetic loss, low ESR, small parasitic capacitance.
- Flat wire winding, achieve a low D.C. Resistance.
- Temperature rise current and saturation current is less influenced by environment.
- Operating temperature: -40℃ ~ +125℃ (Including coil's temperature rise)
  工作温度：-40℃ ～+125℃ (包含线圈发热)

1 Appearance and dimensions (mm)
外形尺寸

![Inductor Image]

![Diagrams]

<table>
<thead>
<tr>
<th>Part No.</th>
<th>4R7 – 8R2</th>
<th>100 – 220</th>
<th>330 – 470</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension A</td>
<td>0.80</td>
<td>0.65</td>
<td>0.40</td>
</tr>
<tr>
<td>Dimension B</td>
<td>1.30</td>
<td>1.15</td>
<td>0.90</td>
</tr>
</tbody>
</table>

2 Marking
印字标识

3 Reference land pattern (mm)
参考基板尺寸

4 Schematic
原理图
## 5 Electrical characteristics

### 电气特性

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Inductance (μH) ±20%</th>
<th>D.C.R. (mΩ)</th>
<th>Saturation current (A)</th>
<th>Temperature rise current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPCF2016A-4R7MC</td>
<td>4.70 Typical 3.30 Max 4.00</td>
<td>42.0 Typical</td>
<td>21.0</td>
<td></td>
</tr>
<tr>
<td>CPCF2016A-6R8MC</td>
<td>6.80 Typical 3.57 Max 4.30</td>
<td>25.0 Typical</td>
<td>20.0</td>
<td></td>
</tr>
<tr>
<td>CPCF2016A-8R2MC</td>
<td>8.20 Typical 3.57 Max 4.30</td>
<td>25.0 Typical</td>
<td>20.0</td>
<td></td>
</tr>
<tr>
<td>CPCF2016A-100MC</td>
<td>10.0 Typical 5.28 Max 6.30</td>
<td>24.0 Typical</td>
<td>16.0</td>
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</tr>
<tr>
<td>CPCF2016A-220MC</td>
<td>22.0 Typical 5.28 Max 6.30</td>
<td>10.0 Typical</td>
<td>16.0</td>
<td></td>
</tr>
<tr>
<td>CPCF2016A-330MC</td>
<td>33.0 Typical 13.0 Max 15.0</td>
<td>9.00 Typical</td>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>CPCF2016A-470MC</td>
<td>47.0 Typical 13.0 Max 15.0</td>
<td>6.50 Typical</td>
<td>12.0</td>
<td></td>
</tr>
</tbody>
</table>

- All data is tested based on 25°C ambient temperature.
- ※1 Inductance measure condition at 100kHz, 0.1V.
- ※2 Saturation current: the actual value of DC current when the inductance decrease 20% of its initial value.
- ※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT40°C(Ta=25°C).
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6 Saturation current VS temperature rise current curve
饱和电流 VS 温升电流曲线
7 Packing specification
包装规格

7.1 Plastic tray dimensions (mm)
吸塑盘尺寸

- 245 \times 196 \text{ mm}
- 23 \text{ mm}
- 35 \text{ mm}
- (35 \times 4) = 140 \text{ mm}
- 195 \text{ mm}
- 28 \text{ mm}
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- CPCF2016A Series

7.2 Packing  
包装

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>CPCF2016A</td>
<td>40pcs</td>
<td>(40×9) = 360pcs</td>
<td>(360×1) = 360pcs</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盒标签以及运输标签上。

| Production Label  
产品标签 | Shipping Label  
运输标签 |
|-----------|-----------|
| ■ Part No.  
产品型号 | ■ Customer Name  
客户名称 |
| ■ Electrical Information  
产品电性信息 | ■ Customer Part No.  
客户型号 |
| ■ Quantity  
数量 | ■ Supplier Part No.  
供应商型号 |
| ■ Packing No.  
包装流水号 | ■ Supplier Name  
供应商名称 |
|           | ■ Country of origin  
产品产地 |