**High Current Power Inductor**  
- **CPFL3020 Series**

**Outline:**
- Assemblage design, sturdy structure.
- High inductance, high current, low magnetic loss, low ESR, small parasitic capacitance.
- Litz wire winding, effectively reduce skin effect.
- Temperature rise current and saturation current is less influenced by environment.

### 1 Appearance and dimensions (mm)

- **Marking Code**
  - 26.7±0.5
  - 32.0Max
  - 20.5±0.5
  - 5.0±0.5
  - 9.1±0.5

### 2 Marking

- **Ink symbol**

### 3 Reference hole pattern (mm)

- **Marking Code**
  - 27.2
  - 9.1
  - 1.5

### 4 Schematic

- **N/C**  
  - 32.0
  - 26.6

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## High Current Power Inductor - CPFL3020 Series

### 5 Electrical characteristics

<table>
<thead>
<tr>
<th>Part No. 型号</th>
<th>Inductance (μH) 电感值  ※1</th>
<th>D.C.R. (mΩ) 直流电阻</th>
<th>Saturation current (A) 饱和电流  ※2</th>
<th>Temperature rise current (A) 温升电流  ※3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>±20% Typical</td>
<td>Max</td>
<td>Typical</td>
<td>Typical</td>
</tr>
<tr>
<td>CPFL3020-100M</td>
<td>10.0</td>
<td>7.70</td>
<td>9.30</td>
<td>39.0</td>
</tr>
<tr>
<td>CPFL3020-120M</td>
<td>12.0</td>
<td>8.60</td>
<td>10.4</td>
<td>35.0</td>
</tr>
<tr>
<td>CPFL3020-150M</td>
<td>15.0</td>
<td>9.70</td>
<td>11.7</td>
<td>31.0</td>
</tr>
<tr>
<td>CPFL3020-220M</td>
<td>22.0</td>
<td>20.7</td>
<td>24.9</td>
<td>27.0</td>
</tr>
<tr>
<td>CPFL3020-270M</td>
<td>27.0</td>
<td>21.8</td>
<td>26.2</td>
<td>23.5</td>
</tr>
<tr>
<td>CPFL3020-330M</td>
<td>33.0</td>
<td>25.1</td>
<td>30.2</td>
<td>21.0</td>
</tr>
<tr>
<td>CPFL3020-470M</td>
<td>47.0</td>
<td>31.9</td>
<td>38.3</td>
<td>18.0</td>
</tr>
<tr>
<td>CPFL3020-560M</td>
<td>56.0</td>
<td>35.8</td>
<td>42.3</td>
<td>16.0</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 30% of its initial value.
- ※3 Temperature rise current: the actual value of DC current when the temperature rise is ΔT50°C(Ta=25°C).

Special reminder: 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

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- CPFL3020 Series

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7 Packing specification
包装规格

7.1 Plastic tray dimensions (mm)
吸塑盘尺寸
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>CPFL3020</td>
<td>24pcs</td>
<td>(24 × 7) = 168pcs</td>
<td>(168 × 1) = 168pcs</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. 下列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