EMI Chokes / Inductors
Your Partner in Power Electronics

Quality Since 1938
Mascot China
-A subsidiary of Mascot Group in Norway
Mascot China was founded in 2007 in Ningbo city, located northeast in Zhejiang province. Ningbo is about 200 km south of Shanghai and its port is among the busiest in the world. Our production facilities have 5,000 square meters available and feature automatic machinery and test instruments for transformer, toroidal choke, inductor and power supply production.

Based on customer requests and market demand for quality products, we expanded our product range in 2013 from inductive components and development to also offer power supplies. With our development and manufacturing capabilities, we can provide comprehensive assistance for all elements of the design and production processes, enabling efficient and cost effective operation in-house.

We have more than 2,000 approved components in our ERP system from domestic and international suppliers. All components and solutions used for our products have been qualified by our R&D department in Fredrikstad Norway.

The labor intensive process of manufacturing electrical transformers makes offshore manufacturing of custom windings favourable. By using our Manufacturing Execution System (MES) we closely and continuously follow quality and productivity parameters to provide a cost-effective and expedient solution to meet our customers demand.

Based on our expertise in power design and years of manufacturing experience, we provide our customers high quality products and timely deliveries – in accordance with our slogan – "True to the power of quality".

Product Lines
--- Transformers
--- EMI Chokes
--- Inductors
--- Power Supplies

Applications
--- Medical
--- Measuring equipment
--- Automation
--- Telecoms
--- New Energy
Mascot Chokes and Inductors

Over 50 years’ experience in designing and manufacturing wound components are behind the Mascot Choke and Inductor Series.

The coding indicators of the Mascot Choke and Inductor Series

- **X** - Core material
  - "F" - Ferrite core
  - "S" - Sendust core
  - "I" - Iron core
  - "N" - Nanocrystalline core

- **X** - Core dimension

- **X** - Type of mount
  - "V" - Vertical
  - "H" - Horizontal

- **X** - Type of product
  - "C" - Common mode chokes
  - "N" - Normal chokes
  - "S" - Special chokes

### Common Mode Chokes List

<table>
<thead>
<tr>
<th>No.</th>
<th>Series</th>
<th>Type</th>
<th>Core Material</th>
<th>Inductance</th>
<th>Current (A)</th>
<th>Base</th>
<th>Cover</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CV100F</td>
<td>T10</td>
<td>Ferrite Core</td>
<td>12uH-25uH</td>
<td>3.0A-6.4A</td>
<td>X</td>
<td></td>
<td>3</td>
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<tr>
<td>2</td>
<td>CV120F</td>
<td>T120</td>
<td>Ferrite Core</td>
<td>0.22mH to 3.0 mH</td>
<td>3.2A-6.4A</td>
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<td></td>
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<tr>
<td>3</td>
<td>CV130F</td>
<td>T13</td>
<td>Ferrite Core</td>
<td>3.0mH</td>
<td>3.2A-4A</td>
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<td>4</td>
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<td>T16</td>
<td>Ferrite Core</td>
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<td>1.0A-3.0A</td>
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<td>5</td>
<td>CV160N</td>
<td>N16</td>
<td>Nanocrystalline core</td>
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<td>T18</td>
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<td>7</td>
<td>CV200N</td>
<td>T20</td>
<td>Nanocrystalline core</td>
<td>1.0mH-82.0mH</td>
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### Line Chokes List

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<thead>
<tr>
<th>No.</th>
<th>Series</th>
<th>Type</th>
<th>Core Material</th>
<th>Inductance</th>
<th>Current (A)</th>
<th>Base</th>
<th>Cover</th>
<th>Page</th>
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<tr>
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<td>NV080I</td>
<td>I80</td>
<td>Iron Core</td>
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<td>3</td>
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<td>S90</td>
<td>Sendust Core</td>
<td>5.0uH-680.0uH</td>
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<td>Sendust Core</td>
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<td>6A-30A</td>
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<td>NV106I</td>
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<td>Iron Core</td>
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<td>11</td>
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<td>N200</td>
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<td>1.0A-6A</td>
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</tbody>
</table>
CV100F-Cover Series  Common Mode Choke
12uH-25uH, Current 3.0A-6.4A

**CHARACTERISTICS**
- The core is made of Mn-Zn Ni-Zn
- Decreasing noise by using 100kHz to 100MHz
- Increases the anti-EMI ability
- Operating temp. -40°C to +125°C

**Electronic Specification**

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (uH +50%/-30%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>173722</td>
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<td>12.0</td>
<td>10.0</td>
<td>Φ0.85</td>
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<tr>
<td>173611</td>
<td>6.4</td>
<td>25.0</td>
<td>3.35</td>
<td>Φ1.2</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

**Dimensions (mm)**

**Schematic**

We are ready to customise any of our standard products to meet your specific design needs!

Add: No.128 Jinchuan Road, Zhenhai 315221  Ningbo China  
Tel: +86 574 8630 7585  
Fax: +86 574 8630 7571  
Email: salescn@mascot.no  
Websites: www.mascot.no
CV120F Series Common Mode Choke
0.22mH-3.0mH, Current 3.2A-6.4A

CHARACTERISTICS
- The core is made of Mn-Zn Ni-Zn
- Decreasing noise by using 100kHz to 100MHz
- Increases the anti-EMI ability
- Operating temp. -40°C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH +50%/-30%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
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</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

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Websites: www.mascot.no
CV130F Series Common Mode Choke
3.0mH, Current 3.2A-4A

CHARACTERISTICS
- The core is made of Mn-Zn Ni-Zn
- Decreasing noise by using 100kHz to 100MHz
- Increases the anti-EMI ability
- Operating temp. -40 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH±25%-25%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
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</thead>
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<tr>
<td>173682</td>
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<td>35.0</td>
<td>Φ0.9</td>
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<tr>
<td>173632</td>
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<td>3.0</td>
<td>50.0</td>
<td>Φ0.8</td>
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</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

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Email: salescn@mascot.no  
Websites: www.mascot.no
CV160F Series Common Mode Choke
15.0mH-10.0mH, Current 1.0A-3.0A

CHARACTERISTICS
- The core is made of ferrite
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -40 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH-30%/+50%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
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</thead>
<tbody>
<tr>
<td>174100</td>
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<td>10.0 Max</td>
<td>Φ1.0</td>
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<tr>
<td>174101</td>
<td>2.5 Max</td>
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<td>30.0 Max</td>
<td>Φ1.0</td>
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<td>174104</td>
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<td>45.0Max</td>
<td>Φ1.0</td>
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<tr>
<td>174103</td>
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<td>10.0</td>
<td>130.0 Max</td>
<td>Φ1.0</td>
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</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

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Email: salescn@mascot.no
Websites: www.mascot.no
CV160N Series Common Mode Choke
8.0mH-20.0mH, Current 1.0A-5.0A

CHARACTERISTICS
- The core is made of Nanocrystalline
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -65 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH-30%+/+50%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
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Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

We are ready to customise any of our standard products to meet your specific design needs!
**CV180F Series Common Mode Choke**

20mH-25mH, Current 3.6A-4.0A

**CHARACTERISTICS**

- The core is made of Mn-Zn Ni-Zn
- Decreasing noise by using 100kHz to 100MHz
- Increases the anti-EMI ability
- Operating temp. -40°C to +125°C

**Electronic Specification**

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH-25%/+25%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
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<td>120</td>
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<td>173610</td>
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<td>120</td>
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<td>105</td>
<td>Φ0.9</td>
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</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec. Related voltage: 250V-50Hz and +60°C ambient temperature.

**Dimensions (mm)**

**Schematic**

We are ready to customise any of our standard products to meet your specific design needs!
CV200N Series Common Mode Choke
1.0mH-82mH, Current 1.0A-20A

CHARACTERISTICS
- The core is made of Nanocrystalline
- Decreasing the noise by using 1kHz to 300MHz
- High and stable inductance values at high temperatures.
- Power line in – and output filter
- Suppression for common mode noise
- Operating temp. -40 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH-30%/+50%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
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</thead>
<tbody>
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<td>18.0 Max</td>
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<td>Φ1.2</td>
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Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

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Fax: +86 574 8630 7571  Websites: www.mascot.no
CV220F Series Common Mode Choke
1.0mH-15mH, Current 1.0A-15A

CHARACTERISTICS
- The core is made of Ferrite
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -40°C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH−30%/+50%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
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</thead>
<tbody>
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<td>2.0 Max</td>
<td>10.0</td>
<td>65.0 Max</td>
<td>Φ1.2</td>
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<tr>
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<td>140.0 Max</td>
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</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

We are ready to customise any of our standard products to meet your specific design needs!
CV250F Encapsulated Series Common Mode Choke
470uH-10.0mH, Current 1.0A-20A

**CHARACTERISTICS**

- The core is made of Ferrite
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -40 °C to +125°C

**Electronic Specification**

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH-30%/+50%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174160</td>
<td>5.0 Max</td>
<td>2.2</td>
<td>40.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>174161</td>
<td>4.0 Max</td>
<td>3.3</td>
<td>65.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>173659</td>
<td>3.0 Max</td>
<td>5.3</td>
<td>50.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>174162</td>
<td>2.5 Max</td>
<td>6.8</td>
<td>110.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>174163</td>
<td>1.0 Max</td>
<td>10.0</td>
<td>150.0 Max</td>
<td>Φ1.2</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

**Dimensions (mm)**

**Schematic**

We are ready to customise any of our standard products to meet your specific design needs!
CV250F Series Common Mode Choke
2.2mH-10mH, Current 1.0A-5.0A

**CHARACTERISTICS**
- The core is made of Ferrite
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -40 °C to +125°C

**Electronic Specification**

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH-30%/+50%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174150</td>
<td>20.0 Max</td>
<td>0.47</td>
<td>5.0 Max</td>
<td>Ф2.0</td>
</tr>
<tr>
<td>174151</td>
<td>12.0 Max</td>
<td>1.0</td>
<td>10.0 Max</td>
<td>Ф1.5</td>
</tr>
<tr>
<td>174152</td>
<td>4.0 Max</td>
<td>3.0</td>
<td>30.0 Max</td>
<td>Ф1.0</td>
</tr>
<tr>
<td>174153</td>
<td>2.0 Max</td>
<td>5.0</td>
<td>80.0 Max</td>
<td>Ф0.8</td>
</tr>
<tr>
<td>174154</td>
<td>1.6 Max</td>
<td>8.0</td>
<td>100.0 Max</td>
<td>Ф0.8</td>
</tr>
<tr>
<td>174155</td>
<td>1.0 Max</td>
<td>10.0</td>
<td>150.0 Max</td>
<td>Ф0.7</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

**Dimensions (mm)**

**Schematic**

We are ready to customise any of our standard products to meet your specific design needs!
CV310F Series Common Mode Choke
1.0mH-20.0mH, Current 1.0A-20A

**CHARACTERISTICS**

- The core is made of Ferrite
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -40°C to +125°C

**Electronic Specification**

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH-30%/+50%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174140</td>
<td>20.0 Max</td>
<td>1.0</td>
<td>0.02 Max</td>
<td>Φ2.2</td>
</tr>
<tr>
<td>174141</td>
<td>15.0 Max</td>
<td>5.6</td>
<td>13.0 Max</td>
<td>Φ1.8</td>
</tr>
<tr>
<td>174142</td>
<td>10.0 Max</td>
<td>10.0</td>
<td>15.0 Max</td>
<td>Φ1.5</td>
</tr>
<tr>
<td>174143</td>
<td>5.0 Max</td>
<td>15.0</td>
<td>40.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>174144</td>
<td>1.0 Max</td>
<td>20.0</td>
<td>50.0 Max</td>
<td>Φ0.8</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

**Dimensions (mm)**

**Schematic**

We are ready to customise any of our standard products to meet your specific design needs!
CV360F Series Common Mode Choke
1.0mH-15.0mH, Current 0.7A-10A

CHARACTERISTICS
- The core is made of Ferrite
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -40 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH-30%/+50%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174180</td>
<td>12.0 Max</td>
<td>1.0</td>
<td>5.0 Max</td>
<td>Φ1.8  1.5mm</td>
</tr>
<tr>
<td>173739</td>
<td>8.0 Max</td>
<td>1.5</td>
<td>15.0 Max</td>
<td>Φ1.5  1.2mm</td>
</tr>
<tr>
<td>174181</td>
<td>5.0 Max</td>
<td>3.0</td>
<td>20.0 Max</td>
<td>Φ1.2  1.0mm</td>
</tr>
<tr>
<td>174182</td>
<td>3.0 Max</td>
<td>5.0</td>
<td>45.0 Max</td>
<td>Φ1.0  0.8mm</td>
</tr>
<tr>
<td>174183</td>
<td>2.0 Max</td>
<td>6.0</td>
<td>90.0 Max</td>
<td>Φ0.8  0.6mm</td>
</tr>
<tr>
<td>174184</td>
<td>1.0Max</td>
<td>10.0</td>
<td>150.0 Max</td>
<td>Φ0.7  0.5mm</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

We are ready to customise any of our standard products to meet your specific design needs!
CVU98F Series Common Mode Choke
1.8mH-30.0mH, Current 0.25A-1.0A

CHARACTERISTICS
- The core is made of high permeability ferrite
- Decreasing noise by using 10kHz to 100MHz
- Increases the anti-EMI ability
- Suppression of common mode noise
- Mains filter
- Compact switch mode power supplies
- Operating Temp.-40 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH+50%/-30%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174350</td>
<td>1.0 Max</td>
<td>1.8</td>
<td>310.0 Max</td>
<td>Φ1.0</td>
</tr>
<tr>
<td>174351</td>
<td>0.8 Max</td>
<td>3.3</td>
<td>510.0 Max</td>
<td>Φ1.0</td>
</tr>
<tr>
<td>017336</td>
<td>0.45 Max</td>
<td>10.0</td>
<td>2000.0 Max</td>
<td>Φ1.0</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 1.0kHz, 300mV; Testing voltage: 1500Vac – 50Hz, 2 sec, Related voltage: 250V-50Hz and +60°C ambient temperature

Dimensions (mm)

Schematic

We are ready to customise any of our standard products to meet your specific design needs!
CVU10F Series Common Mode Choke
1.8mH-30.0mH, Current 0.25A-1.0A

CHARACTERISTICS
- The core is made of high permeability ferrite
- Decreasing noise by using 10kHz to 100MHz
- Increases the anti-EMI ability
- Suppression of common mode noise
- Mains filter
- Compact switch mode power supplies
- Operating Temp.-40 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH+50%/-30%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174352</td>
<td>0.3 Max</td>
<td>18.0</td>
<td>3100.0 Max</td>
<td>Φ1.0</td>
</tr>
<tr>
<td>174353</td>
<td>0.25 Max</td>
<td>25.0</td>
<td>3600.0 Max</td>
<td>Φ1.0</td>
</tr>
<tr>
<td>173721</td>
<td>0.4 Max</td>
<td>30.0</td>
<td>5500.0 Max</td>
<td>Φ1.0</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 1.0kHz, 300mV; Testing voltage: 1500Vac – 50Hz, 2 sec, Related voltage: 250V-50Hz and +60°C ambient temperature

Dimensions (mm)

Schematic

We are ready to customise any of our standard products to meet your specific design needs!
CH148F Series Common Mode Choke

2.2mH-68mH, Current 0.28A-1.39A

CHARACTERISTICS

- The core is made of Mn-Zn Ni-Zn
- Decreasing noise by using 30kHz to 300MHz
- Increases the anti-EMI ability
- It is mainly applied in LED driver and power of telecoms which need compact size
- Operating temp -40 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH)</th>
<th>Diameter of Wire (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174400</td>
<td>1.39</td>
<td>2.2+/-30%</td>
<td>0.47</td>
</tr>
<tr>
<td>174401</td>
<td>1.27</td>
<td>3.3+/-30%</td>
<td>0.45</td>
</tr>
<tr>
<td>174402</td>
<td>1.06</td>
<td>6.8+/-30%</td>
<td>0.41</td>
</tr>
<tr>
<td>174403</td>
<td>0.96</td>
<td>10+/-25%</td>
<td>0.39</td>
</tr>
<tr>
<td>174404</td>
<td>0.77</td>
<td>15+/-25%</td>
<td>0.35</td>
</tr>
<tr>
<td>174405</td>
<td>0.6</td>
<td>22+/-20%</td>
<td>0.31</td>
</tr>
<tr>
<td>174406</td>
<td>0.53</td>
<td>27+/-20%</td>
<td>0.29</td>
</tr>
<tr>
<td>174407</td>
<td>0.46</td>
<td>30+/-20%</td>
<td>0.27</td>
</tr>
<tr>
<td>174408</td>
<td>0.39</td>
<td>33+/-20%</td>
<td>0.25</td>
</tr>
<tr>
<td>174409</td>
<td>0.33</td>
<td>47+/-20%</td>
<td>0.23</td>
</tr>
<tr>
<td>174410</td>
<td>0.28</td>
<td>68+/-20%</td>
<td>0.21</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 1.0kHz, 0.3V; Testing voltage : 1500Vac – 50Hz, 10mA, 60 sec

Dimensions (mm)

Schematic

We are ready to customise any of our standard products to meet your specific design needs!
NV0801 Series Chokes

100uH-1.0mH, Current 0.5A-5.0A

CHARACTERISTICS

- The core is made of Iron Powder
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -40 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH-20%/+20%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174200</td>
<td>0.5 Max</td>
<td>1.0</td>
<td>800.0 Max</td>
<td>Φ0.5</td>
</tr>
<tr>
<td>174201</td>
<td>1.0 Max</td>
<td>0.86</td>
<td>270.0 Max</td>
<td>Φ0.7</td>
</tr>
<tr>
<td>174202</td>
<td>3.0 Max</td>
<td>0.47</td>
<td>110.0 Max</td>
<td>Φ1.0</td>
</tr>
<tr>
<td>174203</td>
<td>5.0 Max</td>
<td>0.1</td>
<td>35.0 Max</td>
<td>Φ1.2</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

We are ready to customise any of our standard products to meet your specific design needs!
NV0901 Series Chokes

10uH-470uH, Current 1.0A-20A

CHARACTERISTICS

- The core is made of Iron Powder
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -65 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (uH-20%/+20%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174210</td>
<td>1.0 Max</td>
<td>470</td>
<td>350.0 Max</td>
<td>Φ0.6</td>
</tr>
<tr>
<td>174211</td>
<td>5.0 Max</td>
<td>150</td>
<td>35.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>174212</td>
<td>10.0 Max</td>
<td>47</td>
<td>10.0Max</td>
<td>Φ1.5</td>
</tr>
<tr>
<td>174213</td>
<td>20.0 Max</td>
<td>10</td>
<td>4.5 Max</td>
<td>Φ2.0</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

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Add: No.128 Jinchuan Road, Zhenhai 315221 Ningbo China
Tel: +86 574 8630 7585
Fax: +86 574 8630 7571
Email: salescn@mascot.no
Websites: www.mascot.no
**NV090S Series Chokes**

5.0uH-680uH, Current 1.0A-20A

**CHARACTERISTICS**

- The core is made of Sendust
- Decreasing the noise by using 10kHz to 10MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -65 °C to +125°C

### Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (uH-20%+/20%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174220</td>
<td>1.0 Max</td>
<td>680.0</td>
<td>1000.0 Max</td>
<td>Φ0.6</td>
</tr>
<tr>
<td>174221</td>
<td>3.0 Max</td>
<td>270.0</td>
<td>250.0 Max</td>
<td>Φ0.8</td>
</tr>
<tr>
<td>174222</td>
<td>5.0 Max</td>
<td>72.0</td>
<td>50.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>174223</td>
<td>10.0 Max</td>
<td>33.0</td>
<td>20.0 Max</td>
<td>Φ1.5</td>
</tr>
<tr>
<td>174224</td>
<td>20.0 Max</td>
<td>5.0</td>
<td>3.5 Max</td>
<td>Φ2.0</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

### Dimensions (mm)

![Dimensions Diagram]

### Schematic

![Schematic Diagram]

We are ready to customise any of our standard products to meet your specific design needs!
NV106S Series Chokes
100uH-680uH, Current 6.0A-30A

CHARACTERISTICS
- The core is made of Sendust
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -40°C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (uH-15%/+15%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174230</td>
<td>30.0 Max</td>
<td>5.6</td>
<td>3.0 Max</td>
<td>Φ2.8</td>
</tr>
<tr>
<td>174231</td>
<td>25.0 Max</td>
<td>10.0</td>
<td>2.0 Max</td>
<td>Φ2.5</td>
</tr>
<tr>
<td>174232</td>
<td>15.0 Max</td>
<td>27.0</td>
<td>5.0 Max</td>
<td>Φ2.2</td>
</tr>
<tr>
<td>174233</td>
<td>12.0 Max</td>
<td>47.0</td>
<td>6.5 Max</td>
<td>Φ2.0</td>
</tr>
<tr>
<td>173737</td>
<td>10.0 Max</td>
<td>68.0</td>
<td>10.0 Max</td>
<td>Φ1.8</td>
</tr>
<tr>
<td>174234</td>
<td>6.0 Max</td>
<td>100.0</td>
<td>20.0 Max</td>
<td>Φ1.5</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

We are ready to customise any of our standard products to meet your specific design needs!
NV1061 Series Chokes
5.0uH-100uH, Current 1.0A-20A

CHARACTERISTICS
- The core is made of Iron Powder
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -65 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (uH-10%/+10%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174240</td>
<td>20.0 Max</td>
<td>5.0</td>
<td>2.0 Max</td>
<td>Φ2.2</td>
</tr>
<tr>
<td>173790</td>
<td>7.0 Max</td>
<td>15.0</td>
<td>15.0 Max</td>
<td>Φ1.3</td>
</tr>
<tr>
<td>174241</td>
<td>3.5 Max</td>
<td>20.0</td>
<td>25.0 Max</td>
<td>Φ1.0</td>
</tr>
<tr>
<td>174242</td>
<td>2.0 Max</td>
<td>42.0</td>
<td>75.0 Max</td>
<td>Φ0.8</td>
</tr>
<tr>
<td>174243</td>
<td>1.0 Max</td>
<td>100.0</td>
<td>170.0 Max</td>
<td>Φ0.6</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

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Tel: +86 574 8630 7585
Fax: +86 574 8630 7571
Email: salescn@mascot.no
Websites: www.mascot.no
NV130I Series Chokes

10.0uH-1.5mH, Current 1.0A-20A

CHARACTERISTICS

- The core is made of Iron Powder
- Decreasing noise by using 100kHz to 10MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -65 °C to +125 °C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (uH-20%+/20%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174250</td>
<td>1.0 Max</td>
<td>1500</td>
<td>450.0 Max</td>
<td>Φ0.7</td>
</tr>
<tr>
<td>174251</td>
<td>5.0 Max</td>
<td>680</td>
<td>77.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>174252</td>
<td>10.0 Max</td>
<td>100</td>
<td>20.0 Max</td>
<td>Φ1.5</td>
</tr>
<tr>
<td>174253</td>
<td>20.0 Max</td>
<td>10</td>
<td>3.0 Max</td>
<td>Φ2.0</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

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Websites: www.mascot.no
NV130S Series Chokes
10.0uH-2.2mH, Current 1.0A-20A

CHARACTERISTICS
- The core is made of Sendust
- Decreasing noise by using 10kHz to 10MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -65 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (µH-20%/+20%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174260</td>
<td>1.0 Max</td>
<td>2200.0</td>
<td>1200.0 Max</td>
<td>Φ0.7</td>
</tr>
<tr>
<td>174261</td>
<td>3.0 Max</td>
<td>680.0</td>
<td>180.0 Max</td>
<td>Φ1.0</td>
</tr>
<tr>
<td>174262</td>
<td>5.0 Max</td>
<td>330.0</td>
<td>65.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>174263</td>
<td>10.0 Max</td>
<td>150.0</td>
<td>30.0 Max</td>
<td>Φ1.5</td>
</tr>
<tr>
<td>174264</td>
<td>20.0 Max</td>
<td>10.0</td>
<td>4.0 Max</td>
<td>Φ2.0</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)  

Schematic

We are ready to customise any of our standard products to meet your specific design needs!
NV157S Series Chokes
90.0uH-810uH, Current 1.0A-20A

**Characteristics**
- The core is made of Sendust
- Decreasing noise by using at 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -65 °C to +125°C

**Electronic Specification**

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (uH-10%/+10%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>173653</td>
<td>20.0 Max</td>
<td>90.0</td>
<td>10.0 Max</td>
<td>Φ2.2</td>
</tr>
<tr>
<td>174270</td>
<td>12.0 Max</td>
<td>130.0</td>
<td>30.0 Max</td>
<td>Φ1.7</td>
</tr>
<tr>
<td>174271</td>
<td>5.0 Max</td>
<td>260.0</td>
<td>65.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>174272</td>
<td>3.0 Max</td>
<td>518.0</td>
<td>170.0 Max</td>
<td>Φ0.8</td>
</tr>
<tr>
<td>174273</td>
<td>1.0 Max</td>
<td>810.0</td>
<td>320.0 Max</td>
<td>Φ0.7</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac − 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

**Dimensions (mm)**

**Schematic**

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Websites: www.mascot.no
NV184I Series Chokes
150.0uH-1000.0uH, Current 1.0A-20A

CHARACTERISTICS
- The core is made of Iron Powder
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -65 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (uH-10%/+10%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>173649</td>
<td>20.0 Max</td>
<td>150.0</td>
<td>15.0 Max</td>
<td>Φ3.0</td>
</tr>
<tr>
<td>174280</td>
<td>12.0 Max</td>
<td>270.0</td>
<td>30.0 Max</td>
<td>Φ1.8</td>
</tr>
<tr>
<td>174281</td>
<td>5.0 Max</td>
<td>540.0</td>
<td>90.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>174282</td>
<td>2.5 Max</td>
<td>820.0</td>
<td>220.0 Max</td>
<td>Φ0.9</td>
</tr>
<tr>
<td>174283</td>
<td>1.5 Max</td>
<td>1000.0</td>
<td>330.0 Max</td>
<td>Φ0.8</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.1V; Testing voltage: 1500Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

We are ready to customise any of our standard products to meet your specific design needs!
NV2001 Series Chokes
100.0uH-680.0uH, Current 5.0A-30A

CHARACTERISTICS
- The core is made of Iron Powder
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -65 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (uH-15%/+15%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>174310</td>
<td>30.0 Max</td>
<td>100.0</td>
<td>5.5 Max</td>
<td>Φ2.8</td>
</tr>
<tr>
<td>174311</td>
<td>25.0 Max</td>
<td>168.0</td>
<td>10.0 Max</td>
<td>Φ2.5</td>
</tr>
<tr>
<td>174312</td>
<td>15.0 Max</td>
<td>270.0</td>
<td>15.0 Max</td>
<td>Φ2.2</td>
</tr>
<tr>
<td>174313</td>
<td>12.0 Max</td>
<td>330.0</td>
<td>20.0 Max</td>
<td>Φ2.0</td>
</tr>
<tr>
<td>174314</td>
<td>10.0 Max</td>
<td>470.0</td>
<td>30.0 Max</td>
<td>Φ1.8</td>
</tr>
<tr>
<td>174315</td>
<td>6.0 Max</td>
<td>680.0</td>
<td>60.0 Max</td>
<td>Φ1.5</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.3V; Testing voltage: 1000Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

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Websites: www.mascot.no
NV200N Series Chokes
1.0mH-20.0mH, Current 1.0A-6A

CHARACTERISTICS

- The core is made of Nanocrystalline
- Decreasing noise by using 10kHz to 200MHz
- It is mainly applied in AC inductor converter, switch power supplies, EMC filter, wind power, household appliances
- Operating temp. -65 °C to +125°C

Electronic Specification

<table>
<thead>
<tr>
<th>MN code</th>
<th>Rated current per winding (A)</th>
<th>Inductance Per winding (mH-15%/+30%)</th>
<th>DC resistance (mΩ)</th>
<th>Suggested PCB hole (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>173647</td>
<td>6.0 Max</td>
<td>1.5</td>
<td>15.0 Max</td>
<td>Φ2.2</td>
</tr>
<tr>
<td>174320</td>
<td>5.0 Max</td>
<td>4.0</td>
<td>20.0 Max</td>
<td>Φ1.2</td>
</tr>
<tr>
<td>174321</td>
<td>3.5 Max</td>
<td>8.0</td>
<td>40.0 Max</td>
<td>Φ1.0</td>
</tr>
<tr>
<td>174322</td>
<td>2.0 Max</td>
<td>12.0</td>
<td>95.0 Max</td>
<td>Φ0.8</td>
</tr>
<tr>
<td>174323</td>
<td>1.0 Max</td>
<td>20.0</td>
<td>200.0 Max</td>
<td>Φ0.6</td>
</tr>
</tbody>
</table>

Remark: Testing conditions at 20°C, 10.0kHz, 0.3V; Testing voltage: 1000Vac – 50Hz, 3 sec, Related voltage: 250V-50Hz and +60°C ambient temperature.

Dimensions (mm)

Schematic

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No.128 Jinchuan Road,Zhenhai
Ningbo 315221,China

Tel:+86 574 86307585
Fax:+86 574 86307571
Email:salescn@mascot.no