The NT00 Series of products is typically used at high current interfaces which must meet emission or susceptibility requirements. These filters dramatically reduce RF energy over the frequency range of 0.1 to 1000 MHz. This product group performs the following functions: Line filter, return-line grounding, and ground noise current limiting.

**APPLICATIONS**
- PC board power filtering
- Digital logic power filtering
- Analog power filtering
- Power supply noise reduction
- Analog power filtering
- Distributed power supplies
- 12-48V converter systems

**FEATURES**
- 15 Amp current rating
- 50V, 100V, and 200Vdc devices
- High IL from 0.1MHz to 1GHz
- Provides two filtered lines
- Continuous power leads ensure high reliability

**INSERTION LOSS**

**EQUIVALENT CIRCUIT**

CBV  Circuit Board Voltage
PSB  Power Supply Bulk
PSG  Power Supply Ground
GP  PCB Ground Plane
## NT00 Series Technical Data

### Specifications (at 20-25°C unless otherwise stated:)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>NT004-B1</th>
<th>NT005-B1</th>
<th>NT007-B1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Rating (Vdc)</td>
<td>100</td>
<td>50</td>
<td>200</td>
</tr>
<tr>
<td>Current Rating (Adc)</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>DC Voltage Drop</td>
<td>&lt;15 millivolts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-30°C to +85°C (-22°F to +185°F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>100 Meg Ohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum RF Current</td>
<td>2.5 Amperes rms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Withstand Voltage</td>
<td>2.5 x Voltage Rating for 5s</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impulse Voltage</td>
<td>5 x Voltage Rating (1.2 x 50 μs)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Dimensions in Inches (mm)

- **Model Number:** NT004, NT005, NT007
- **Tolerance:** .xx ± .015, .xxx ± .004
- **Dimensions:**
  - .48 (12.2)
  - .14 (3.5)
  - .100 (2.5)
  - 3 EQ SPACES
  - .44 (11.2)

### Ground Plane Layout

- **Component Side of PCB:**
  - High frequency filtering requires sound RF grounding techniques (consult NexTek for assistance)

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**Note:** High frequency filtering requires sound RF grounding techniques (consult NexTek for assistance)

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