CNV 504N5 SERIES
COUPLING/DECOUPLING NETWORKS FOR 4 SIGNAL/DATA LINES

For tests according to...
- EN 61000-4-18
- IEC 61000-4-18

The CNV 504N5-series coupling/decoupling networks are used to apply slow damped oscillatory waves onto signal/data lines in accordance to EN/IEC 61000-4-18. A capacitance of 0.5uF is specified to couple the pulses on to the lines. Each line has a decoupling inductor of 1.5mH or 3.0 mH to protect the auxiliary equipment from being subjected to the test pulse. The disturbance signal used for this test is a damped oscillatory pulse with a frequency of 100kHz or 1MHz, being generated by the EM TEST OCS 500N6 or OCS 500N6F.

The CNV 504N5 series supports voltages of up to 250V AC/DC and a current of up to 4A AC/DC.

HIGHLIGHTS
- Dedicated CDN for the coupling of slow damped oscillatory waves as per EN/IEC 61000-4-18
- Coupling capacitor 0.5uF
- Decoupling inductor 1.5 mH for 50 V AC/DC
- Decoupling inductor 3.0 mH for 250V AC/DC
- Nominal line current 4A AC/DC

APPLICATION AREAS
- COMPONENTS
- INDUSTRY
- RESIDENTIAL

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© EM TEST > PAGE 1/3
**MODEL OVERVIEW**

**AVAILABLE CNV 504N5 MODELS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage per line</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNV 504N5.1</td>
<td>50V AC/DC</td>
</tr>
<tr>
<td>CNV 504N5.3</td>
<td>250V AC/DC</td>
</tr>
</tbody>
</table>

**TECHNICAL DETAILS**

**CNV 504N5.1**

- **Nominal voltage**: max. 50V AC/DC per line
- **Nominal current**: max. 4A AC/DC per line
- **Test voltage**: max. 3kV peak for 100kHz and 1MHz damped oscillatory waves
- **Source impedance**: 200 Ohm whereas 100 Ohm are part of the CNV and 100 Ohm are part of the generator OCS 500N6 series
- **Decoupling inductor**: 1.5 mH per line

**CNV 504N5.3**

- **Nominal voltage**: max. 250V AC/DC per line
- **Nominal current**: max. 4A AC/DC per line
- **Test voltage**: max. 3kV peak for 100kHz and 1MHz damped oscillatory waves
- **Source impedance**: 200 Ohm whereas 100 Ohm are part of the CNV and 100 Ohm are part of the generator OCS 500N6 series
- **Decoupling inductor**: 3.0 mH per line

**GENERAL DATA (ALL MODELS)**

**OUTPUTS**

- **DUT connectors**: 4mm safety lab connectors
- **Dimensions, Weight**: 250mm x 160mm x 130mm approx. 2.5kg

**RECOMMENDED ACCESSORIES**

**GENERATOR AND OPTIONS FOR EN/IEC 61000-4-18 TESTING**

<table>
<thead>
<tr>
<th>Generator Series</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>OCS 500N6 series</td>
<td>Damped Oscillatory Wave generator, 100kHz and 1MHz</td>
</tr>
<tr>
<td>OCS 500N6F series</td>
<td>Fast Damped Oscillatory Wave generator, with option S-DOW/N6F, 100kHz and 1MHz</td>
</tr>
<tr>
<td>iec.control</td>
<td>Remote control and documentation software</td>
</tr>
</tbody>
</table>
Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Subject to change without further notice.