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 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 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 500M6.

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 damped oscillatory waves as per EN/IEC 61000-4-18
› Coupling capacitor 0.5uF
› Decoupling inductor 1.5mH per line
› Nominal line voltage 50V or 250V AC/DC
› Nominal line current 4A AC/DC

APPLICATION AREAS
- COMPONENTS
- INDUSTRY
- RESIDENTIAL
DATA SHEET > CNV 504N5 series > 20100915

MODEL OVERVIEW

AVAILABLE CNV 504N5 MODELS

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Voltage</th>
<th>Nominal Current</th>
<th>Test Voltage</th>
<th>Source Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNV 504N5.1</td>
<td>50V AC/DC per line</td>
<td>max. 4A AC/DC per line</td>
<td>max. 3kV peak for 100kHz and 1MHz damped oscillatory waves</td>
<td>200 Ohm whereas 100 Ohm are part of the CNV and 100 Ohm are part of the generator OCS 500N6</td>
</tr>
<tr>
<td>CNV 504N5.3</td>
<td>250V AC/DC per line</td>
<td>max. 4A AC/DC per line</td>
<td>max. 3kV peak for 100kHz and 1MHz damped oscillatory waves</td>
<td>200 Ohm whereas 100 Ohm are part of the CNV and 100 Ohm are part of the generator OCS 500N6</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

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

GENERAL DATA (ALL MODELS)

- 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/Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCS 500N6</td>
<td>Damped Oscillatory Wave generator, 100kHz and 1MHz</td>
</tr>
<tr>
<td>iec.control</td>
<td>Remote control and documentation software</td>
</tr>
</tbody>
</table>

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Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Technical data subject to change without further notice.