

# CNV 504N5 SERIES

## COUPLING/DECOUPLING NETWORKS FOR 4 SIGNAL/DATA LINES



### FOR TESTS ACCORDING TO ...

- > EN 61000-4-18
- > IEC 61000-4-18

### COUPLING/DECOUPLING NETWORKS FOR TESTING MEASURING RELAYS AND PROTECTION EQUIPMENT

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 0.5µF 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 0.5µF**
- > **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

**TECHNICAL DETAILS**

**MODEL OVERVIEW**

AVAILABLE CNV 504N5 MODELS	
CNV 504N5.1	50V AC/DC per line
CNV 504N5.3	250V AC/DC per line

**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	
OCS 500N6 series	Damped Oscillatory Wave generator, 100kHz and 1MHz
OCS 500N6F series	Fast Damped Oscillatory Wave generator, with option S-DOW/N6F, 100kHz and 1MHz
iec.control	Remote control and documentation software

# COMPETENCE WHEREVER YOU ARE



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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.