

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.