

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 0.5uF 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

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

Accelonix BV
Luchthavenweg 18b • NL-5657 EB •
Eindhoven • The Netherlands •
T: +31 40 750 1650 • E: info@accelonix.nl



CONTACT EM TEST DIRECTLY

Switzerland

EM TEST (Switzerland) GmbH > Sternenhofstraße 15 > 4153 Reinach > Switzerland
Phone +41 (0)61/7179191 > Fax +41 (0)61/7179199
Internet: www.emtest.ch > E-mail: sales.emtest@ametek.com

Germany

AMETEK CTS Germany GmbH > Lünener Straße 211 > 59174 Kamen > Deutschland
Phone +49 (0)2307/26070-0 > Fax +49 (0)2307/17050
Internet: www.emtest.com > E-mail: info.cts@ametek.de

France

EM TEST FRANCE > Le Trident - Parc des Collines > Immeuble B1 - Etage 3 > 36, rue Paul Cézanne > 68200 Mulhouse > France
Phone +33 (0)389 31 23 50 > Fax +33 (0)389 31 23 55
Internet: www.emtest.fr > E-mail: info@emtest.fr

Poland

EM TEST Polska > ul. Ogrodowa 31/35, 00-893 Warszawa > Polska
Phone +48 (0)518 64 35 12
Internet: www.emtest.com/pl > E-mail: infopolska.emtest@ametek.com

USA / Canada

AMETEK Compliance Test Solutions > 52 Mayfield Ave. > Edison > NJ 08837
Phone +1 (732) 417-0501
Internet: www.emtest.com > E-mail: sales.emtest@ametek.com

P.R. China

E & S Test Technology Limited > Rm 913, Leftbank > No. 68 Bei Si Huan Xi Lu > Haidian District > Beijing 100080 > P.R. China
Phone +86 (0)10 82 67 60 27 > Fax +86 (0)10 82 67 62 38
Internet: www.emtest.com > E-mail: info@emtest.com.cn

Republic of Korea

EM TEST Korea Limited > #405 > WooYeon Plaza > #986-8 > YoungDeok-dong > Giheung-gu > Yongin-si > Gyeonggi-do > Korea
Phone +82 (31) 216 8616 > Fax +82 (31) 216 8616
Internet: www.emtest.co.kr > E-mail: sales@emtest.co.kr

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.