



## Coupling/Decoupling Network for screened Lines

### CDN S9

- IEC 61000-4-6
- EN 61000-4-6
- GB/T 17626.6

#### Features

- > All ports adopt screened 9-pin D-sub
- > Specifically designed for 9-core screened lines
- > Max. current rating 1 A, suitable for most industrial and automotive electronic devices
- > Max. data rate of 10 Mbit/s

#### Introduction

CDN S9 is a coupling/decoupling network for screened lines, intended for conducted immunity tests on various screened cables. It complies with IEC 61000-4-6, GB/T 17626.6 and relevant standards, fully meeting performance and cabling specifications for CDNs.

It supports a max. data rate of 10 Mbit/s and is equipped with 9-pin D-sub ports. It ensures stable data transmission during tests, accurately reproduces the actual communication status of devices, and guarantees accurate and repeatable test results. This product helps streamline testing procedures to meet industrial compliance requirements and delivers reliable, credible test data.

#### Application Areas



## Technical Parameters

|                                                                 |                                           |
|-----------------------------------------------------------------|-------------------------------------------|
| Frequency                                                       | 150 kHz ~ 230 MHz                         |
| Max. AC Voltage (L-PE)                                          | 100 V                                     |
| Max. DC Voltage (L-PE)                                          | 150 V                                     |
| Max. Current                                                    | 1 A                                       |
| RF Signal Input Port                                            | BNC (female)                              |
| EUT/AE Port                                                     | 9-pin D-sub (female)                      |
| Data Rate                                                       | 10 Mbit/s                                 |
| <b>Common-mode Impedance (EUT)</b>                              |                                           |
| 150 kHz ~ 24 MHz                                                | 150 $\Omega$ $\pm$ 20 $\Omega$            |
| 24 MHz ~ 80 MHz                                                 | 150 $\Omega$ + 60 $\Omega$ / -45 $\Omega$ |
| 80 MHz ~ 230 MHz                                                | 150 $\Omega$ + 60 $\Omega$ / -60 $\Omega$ |
| <b>Voltage Division Factor (RF Input Port - EUT Port)</b>       |                                           |
| 150 kHz ~ 80 MHz                                                | 9.5 dB $\pm$ 1 dB                         |
| 80 MHz ~ 230 MHz                                                | 9.5 dB $\pm$ 2 dB                         |
| <b>Common-mode Disturbance Suppression (RF Input Port / AE)</b> |                                           |
| 150 kHz                                                         | > 60 dB                                   |
| 1.5 MHz                                                         | > 60 dB                                   |
| 30 MHz                                                          | > 50 dB                                   |
| 80 MHz                                                          | > 50 dB                                   |
| 230 MHz                                                         | > 40 dB                                   |

## General Parameters

|                     |                                   |
|---------------------|-----------------------------------|
| Weight              | Approx. 4.2 kg                    |
| Dimension           | 210 mm(L) * 170 mm(W) * 115 mm(H) |
| Enclosure Material  | Aluminum                          |
| Ambient Temperature | 15°C ~ 35°C                       |
| Relative Humidity   | 45% ~ 75%                         |
| Package             | Carton                            |

## Standard Accessories

Calibration Adapter, 9-position solder type female D-sub, User Manual

## Optional Accessories

|   |                                     |                                                                                                           |                                                                                       |
|---|-------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1 | 150 $\Omega$ to 50 $\Omega$ Adapter | Model: CDN 100KIT<br>Insertion Loss: 9.5 dB $\pm$ 0.5 dB<br>Number: 2                                     |  |
| 2 | BNC 50 $\Omega$ Coaxial Terminator  | Model: TF2-1-BNC(J)2W DC-1G<br>Impedance: 50 $\Omega$<br>Power: 2 W<br>Frequency: DC ~ 1 GHz<br>Port: BNC |  |

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