



Coupling/Decoupling Networks for Unscreened Unsymmetrical Lines

CDN AF4

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

Features

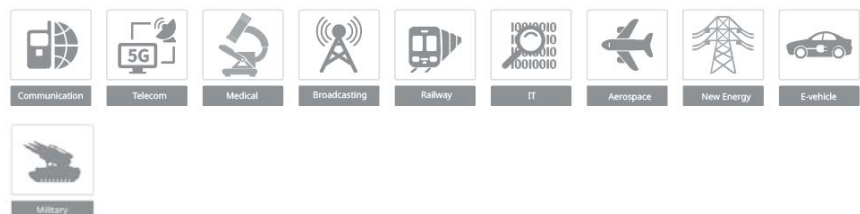
- > All ports adopt RS485 ports
- > Specifically designed for 4-wire unscreened unbalanced lines
- > Max. current rating 1 A, suitable for most industrial and automotive electronic devices

Introduction

CDN AF4 is a coupling/decoupling network for unscreened unbalanced lines, intended for conducted immunity tests on various unscreened unbalanced 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 transmission rate of 10 Mbit/s and is equipped with RS485 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 Input (BNC)	< 20 V
EUT Port	RS 486
AE Port	RS 485
Data Rate	10 Mbit/s
Common-mode Impedance (EUT)	
150 kHz ~ 24 MHz	150 Ω $\pm$ 20 Ω
24 MHz ~ 80 MHz	150 Ω + 60 Ω / -45 Ω
80 MHz ~ 230 MHz	150 Ω + 60 Ω / -60 Ω
Voltage Division Factor (RF Input Port - EUT Port)	
150 kHz ~ 80 MHz	9.5 dB $\pm$ 1 dB
80 MHz ~ 230 MHz	9.5 dB $\pm$ 2 dB
Common-mode Disturbance Suppression (RF Input Port / AE)	
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 kg
Dimension	210 mm * 170 mm * 115 mm
Enclosure Material	Aluminum
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Package	Carton

Standard Accessories

Instrument List, Adapter, User Manual

Optional Accessories

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

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