



Coupling/Decoupling Network

CDN M2-200

- IEC/EN 61000-4-6
- GB/T 17627.6

Features

- > 200 A/700 V AC and 1,500 V DC high load capability
- > Meet both high load capability and standard impedance requirements
- > 150 kHz ~ 230 MHz wide frequency range with stable performance
- > Optimized for unshielded power line immunity testing

Introduction

The CDN M2-200 Coupling/Decoupling Network is designed for high-power electrical equipment with a three-phase five-wire design. It enables reliable coupling of RF common-mode disturbance signals onto three-phase power lines and effective RF decoupling between the EUT and AE during EMC conducted immunity testing.

With a maximum load capability of 200 A, it is suitable for EMC compliance testing of power electronics, industrial control, renewable energy systems (photovoltaic and wind power systems), smart grids, and other high-power equipment.

Application Areas



Technical Parameters

Frequency	150 kHz ~ 230 MHz
RF Signal Input Port	BNC
Max. EUT Current/Voltage	200 A 700 V AC/1,500 V DC (Line-Ground) (EUT/AE cable: 50 mm ²)
RF Input Power	6 W
Common-Mode Impedance	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 $\pm$ 60 Ω
Dimension	435 (W)*215 (H)*670 (D) mm
Weight	Approx. 16 kg

Standard Accessories

Power Cord, CDN Calibration Adapter, 150 Ω to 50 Ω Calibration Fixture, Crimp Lug, Phillips Pan Head Screw Set, User Manual

Optional Accessories

1	Conducted Immunity Test System*	Model: CST Series Frequency: 100 kHz ~ 230 MHz Max. 1 dB gain: 51.8 dB $\pm$ 2 dB (150 W) Output impedance: 50 Ω	
2	CDN Calibration Kit	Model: CDN 100KIT Insertion loss: 9.5 dB $\pm$ 0.5 dB 150 Ω to 50 Ω adapter *2	
3	Current Injection Probe	Model: BCIP-500 Frequency: 2 kHz ~ 500 MHz Power: 100 W (30 min cont.) 150 W (15 min cont.) 200 W (5 min cont.)	
4	Wideband Current Injection Calibration Fixture	Model: BCICF-500 Frequency: DC ~ 500 MHz Characteristic impedance: 50 Ω Inner diameter: 40 mm	
5	Calibration Kit	Model: BCI 100KIT Insertion loss: 9.5 dB $\pm$ 0.5 dB 150 Ω to 50 Ω adapter *2	
6	Electromagnetic Clamp	Model: EM CL100 Frequency: 100 kHz ~ 1GHz Power: 100 W (5 min cont.) Coupling/decoupling isolation >10 dB >0.1 MHz Incl. 150 Ω to 50 Ω calibration device	
* See the official website for CST series parameter differences among different models.			

SUZHOU 3CTEST ELECTRONIC CO., LTD.

Address: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

E-mail: globalsales@3ctest.cn

Service: service@3ctest.cn

Tel: +86 - 512 - 68077192

Web: www.3ctest.com



3CTEST is always striving for product innovation and quality improvement. Product appearance and technical specifications are subject to change without further notice.