

ZN3750CDN-M2/M3 Coupling/Decoupling Network - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN3750CDN-M2/M3
Type: Coupling/Decoupling Network (CDN)
Frequency Range: 150kHz – 230MHz

The ZN3750CDN-M2/M3 Coupling/Decoupling Network is designed based on the national standard GB/T17626.6-2008 and IEC61000-4-6:2006. The CDN-M2 supports two-wire devices, and the CDN-M3 supports three-wire devices. This device is used to couple disturbance signals to the cables connected to the Device Under Test (DUT), ensuring that the test signals do not affect other systems. It is suitable for measuring conducted disturbance and immunity performance at power ports in accordance with GB/T17626.6-2017 and IEC61000-4-6:2013.

2. Technical Specifications

Parameter	Specification
Frequency Range	150kHz – 230MHz
Impedance (Zce)	150Ω
Impedance (150kHz – 26MHz)	150Ω ± 20Ω
Impedance (26MHz – 80MHz)	150Ω +60Ω/-45Ω
Impedance (80MHz – 230MHz)	150Ω ± 60Ω
Coupling Coefficient (EUT to RF Port)	9.5dB +3dB/-1dB
Decoupling Coefficient (AE to RF Port)	150kHz: >20dB, 1.5MHz: >60dB, 30MHz: >50dB, 230MHz: >25dB
Voltage Range	AC 0 – 250V, DC 0 – 400V
Current Range	0 – 16A
Frequency (Power)	0 – 60Hz
Signal Ports	BNC, 50Ω

Parameter	Specification
Dimensions	200mm × 120mm × 100mm
Weight	1.3kg

3. Key Features

- Dual Mode:** Supports both CDN-M2 (two-wire) and CDN-M3 (three-wire) configurations, selectable via a front panel switch.
- Standards Compliance:** Designed in accordance with GB/T17626.6-2017 and IEC61000-4-6:2013.
- Accurate Impedance:** Provides stable impedance across a wide frequency range for accurate conducted disturbance and immunity testing.

4. Usage Instructions

- Install the device on a grounded metal plate.
- Connect the DUT power lines to the EUT terminals (PE, L, N) of the CDN. For two-wire devices, the PE terminal should not be connected.
- Ensure correct connection of the AE terminals to the power supply. For systems without a ground wire, leave the PE terminal unconnected.
- Choose CDN-M2 or CDN-M3 mode based on the test setup requirements.
- After ensuring all connections are correct, power the external supply and proceed with the tests following national standards.
- After testing, disconnect the power supply.

5. Accessories

Item	Quantity
ZN3750CDN-M2/M3 Unit	1 unit
User Manual	1 copy
Product Certificate	1 copy
Input Power Cable	1 unit

Item	Quantity
6dB Attenuator (50Ω)	1 unit
BNC-N Test Cable (1 meter)	1 unit

6. Warranty

- Warranty Period:** 18 months from the date of shipment, covering defects under normal usage and transportation conditions.

7. Product Photo



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