

ZN3751CDN-M5 Coupling/Decoupling Network - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN3751CDN-M5
Type: Coupling/Decoupling Network (CDN)
Frequency Range: 150kHz – 230MHz

The ZN3751CDN-M5 is a Coupling/Decoupling Network (CDN) designed in accordance with the national standard GB/T17626.6-2017 and IEC61000-4-6:2013. This CDN is used to couple disturbance signals onto cables connected to the Device Under Test (DUT), preventing test signals from affecting non-tested devices and systems. It is used to assess conducted disturbance and immunity performance of devices within the 150kHz – 230MHz frequency range.

2. Technical Specifications

Parameter	Specification
Frequency Range	150kHz – 230MHz
Common Mode Impedance (EUT Port)	$Z_{ce} = 150\Omega$
Impedance (150kHz - 26MHz)	$150\Omega \pm 20\Omega$
Impedance (26MHz - 80MHz)	$150\Omega + 60\Omega/-45\Omega$
Impedance (80MHz - 230MHz)	$150\Omega \pm 60\Omega$
Coupling Coefficient (EUT to RF Port)	9.5dB +2dB/-1dB
Decoupling Coefficient (AE to RF Port)	150kHz: >20dB, 1.5MHz: >60dB, 30MHz: >50dB, 230MHz: >25dB
Voltage Range	Max 250V (AC Line-to-Ground), Max 400V (AC Line-to-Line)
Current Range	0 – 16A
Frequency (Power)	0 – 60Hz
Signal Ports	BNC, 50 Ω

Parameter	Specification
Dimensions	200mm × 120mm × 105mm
Weight	1.5kg

3. Key Features

- Wide Frequency Range:** Operates from 150kHz to 230MHz, suitable for assessing conducted disturbance and immunity.
- Precise Impedance Matching:** Offers stable impedance to ensure accurate testing results.
- High Decoupling Performance:** Prevents unwanted interaction between the test signal and non-tested devices.

4. Caution

- Ensure that the PE, L1, L2, L3, and N connections are correct before powering the device. Incorrect connections may cause serious injury or damage to the instrument.
- Always connect the instrument to a reliable metal grounding plate.

5. Accessories

Item	Quantity
ZN3751CDN-M5 Unit	1 unit
User Manual	1 copy
Product Certificate	1 copy
BNC-BNC Test Cable	1 unit
Input/Output Accessories	10 pieces (6 black, 2 blue, 2 yellow)
6dB Attenuator	1 unit

6. Warranty

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

7. Product Photo



Contact Information:

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