

# ZN3750-A Coupling/Decoupling Network - Product Datasheet

**Manufacturer:** Beijing Daze Technology Co., Ltd.



## 1. Product Overview

**Model:** ZN3750-A  
**Type:** Coupling/Decoupling Network (CDN)  
**Frequency Range:** 150kHz – 230MHz

The ZN3750-A Coupling/Decoupling Network (CDN) is designed in accordance with national standard GB/T17626.6-2017 and IEC61000-4-6:2013. It is used to couple interference signals onto cables connected to the Device Under Test (DUT) while preventing test signals from affecting non-tested devices and systems. This CDN is suitable for measuring the conducted disturbance and immunity performance of equipment.

## 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: >45dB, 230MHz: >25dB |
| Voltage Range (EUT and AE Ports)       | AC 0–250V, DC 0–400V                                      |
| Current Range                          | 0 – 16A                                                   |
| Frequency (Power)                      | 0 – 60Hz                                                  |
| Signal Ports                           | BNC, 50Ω                                                  |
| Dimensions                             | 200mm × 120mm × 105mm                                     |
| Weight                                 | 1.8kg                                                     |

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### 3. Key Features

- **Wide Frequency Range:** Operates from 150kHz to 230MHz, suitable for evaluating conducted disturbance and immunity performance.
  - **Accurate Impedance:** Provides stable impedance to ensure reliable testing.
  - **High Decoupling:** Effectively isolates test signals, preventing interference with non-tested devices.
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### 4. Usage Instructions

1. Install the device on a grounded metal plate.
  2. Follow the national standards for conducting tests.
  3. For detailed operation instructions, refer to Figures 1, 2, and 3 in the manual.
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### 5. Accessories

| Item                       | Quantity          |
|----------------------------|-------------------|
| ZN3750-A Unit              | 1 unit            |
| User Manual                | 1 copy            |
| Product Certificate        | 1 copy            |
| 6dB Attenuator (BNC, 2W)   | 1 unit (optional) |
| N-BNC Test Cable (1 meter) | 1 unit            |
| 4mm Banana Plugs           | 2 pieces          |

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### 6. Warranty

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



### Contact Information:

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