

ZN3780B Artificial Power Network (LISN) - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN3780B
Type: Artificial Power Network (LISN)
Frequency Range: 150kHz – 110MHz

The ZN3780B is a V-type 50Ω/5μH + 1Ω Artificial Power Network (LISN) designed for conducted disturbance testing. It provides stable impedance within the specified frequency range, isolates the Device Under Test (DUT) from high-frequency noise on the power line, and couples interference voltage to the receiver. The device complies with CISPR16-1 and CISPR25 standards, equivalent to national standards GB/T6113.1 and GB18655.

2. Technical Specifications

Parameter	Specification
Frequency Range	150kHz – 110MHz
Impedance Characteristics	50Ω/5μH + 1Ω
Impedance Error	±20% (Refer to Impedance Characteristics Chart)
Phase Angle Error	±11.5°
Voltage Divider Ratio	<3dB
Operating Current	Max 100A
Operating Voltage	AC 250V 50Hz; DC 500V
RF Output	N-type, 50Ω
Dimensions	148mm × 165mm × 310mm
Weight	4.2kg

3. Key Features

- **Stable Impedance:** Provides stable impedance in the specified frequency range for conducted disturbance testing.
 - **High Isolation:** Effectively isolates high-frequency interference, ensuring separation of the DUT from noise on the power line.
 - **Compliance with Standards:** Meets CISPR16-1 and CISPR25 standards, equivalent to GB/T6113.1 and GB18655.
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4. Panel Functions

1. Front Panel

- Ground Terminal
- Power Output
- Measurement Output
- Grounding Plate
- Safety Protection Cover

2. Rear Panel

- Ground Terminal
 - Power Input
 - Grounding Plate
 - Safety Protection Cover
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5. Operating Instructions

1. Ensure the grounding plate at the bottom of the device is securely connected to the test system's grounding plate.
 2. First, connect the front panel's ground terminal, then connect the power output, and secure the safety protection cover.
 3. Connect the measurement output to the input of the measuring instrument.
 4. Turn on the power to begin measurement. If the interference signal level is unknown, set the attenuator on the measuring instrument to the maximum before starting the test.
 5. Use a pulse limiter if necessary.
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6. Caution

- Only trained personnel are allowed to operate this device.
- Read the manual carefully before use, and follow the connection instructions.
- The device must be used in a well-ventilated, dry environment, and the PE grounding must be securely connected. Safety warning signs should be displayed during operation.

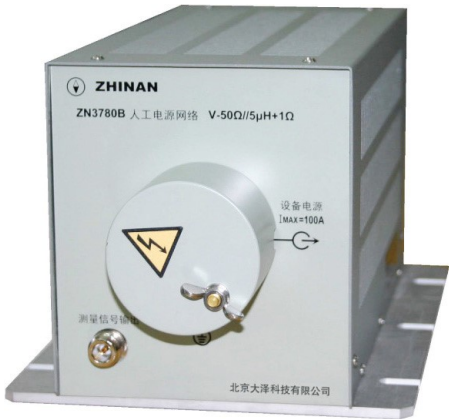
7. Standard Accessories

Item	Quantity
ZN3780B Main Unit	1 unit
N-N Test Cable (1m)	1 unit
User Manual	1 copy

8. Warranty

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

9. Product Photo



Contact Information:
Beijing Daze Technology Co., Ltd.
Phone: 010-64357789
Fax: 010-64373942
Website: www.zn734.com.cn
Email: 781920339@qq.com