

ZN3780A Artificial Power Network (LISN) - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN3780A
Type: Artificial Power Network (LISN)
Frequency Range: 150kHz – 110MHz

The ZN3780A 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 and isolates the Device Under Test (DUT) from high-frequency noise on the power line, coupling interference voltage to the receiver. The device complies with CISPR16-1-2, equivalent to the national standard GB/T6113.102.

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	<2dB
Operating Current	Max 10A
Operating Voltage	AC 250V 50Hz; DC 2000V
RF Output	BNC 50Ω
Dimensions	240mm × 220mm × 120mm
Weight	3.5kg

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 the CISPR16-1-2 standard, equivalent to GB/T6113.102.
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4. Panel Functions

1. Front Panel

- Ground Terminal
 - Power Input
 - Power Output
 - Measurement Output
 - L/N Selection Switch
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5. Operating Instructions

1. Ensure that the grounding plate is securely connected to the ground terminal.
 2. Connect the Device Under Test (DUT) to the power output terminal.
 3. Use the selection switch to measure either the "L" or "N" line. For "N" line measurement, press the N button; for "L" line measurement, press the L button.
 4. Refer to the wiring diagram in the manual for connection details.
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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 ventilated, dry environment, and the PE grounding must be securely connected. Safety warning signs must be displayed during operation.
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7. Standard Accessories

Item	Quantity
ZN3780A Main Unit	1 unit
N-BNC 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



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