

ZN3790 Line Impedance Stabilization Network (LISN) - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN3790
Type: Line Impedance Stabilization Network (LISN)
Frequency Range: 10kHz – 10MHz

The ZN3790 is a 50Ω/50μH + 5Ω Line Impedance Stabilization Network (LISN), used for conducting emission testing. It provides a stable impedance within the specified RF range, isolates the device under test (DUT) from high-frequency noise on the power line, and couples interference voltage to the receiver. This device meets the requirements of the military standard GJB151B-2013.

2. Technical Specifications

Parameter	Specification
Frequency Range	10kHz – 10MHz
Impedance Characteristics	50Ω/50μH + 5Ω
Impedance Error	±20%
Phase Angle Error	±11.5°
Voltage Divider Ratio	10kHz-25kHz: < -5, 25kHz-10MHz: < -1
Operating Current	Max 50A
Operating Voltage	AC 400V 50/60Hz; DC 1000V
RF Output	N-type, 50Ω
Dimensions	330mm × 280mm × 205mm
Weight	8.8kg

3. Key Features

- **Stable Impedance:** Provides a stable impedance in the RF range for conducting emission tests.
 - **High Power Handling:** Can operate with up to 50A of current and 400V AC voltage, or 1000V DC.
 - **RF Isolation:** Isolates the DUT from high-frequency noise on the power line.
 - **Standards Compliance:** Meets military standard GJB151B-2013 for conducting emission testing.
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4. Panel Functions

1. **Front Panel**
 - Current input terminal
 - RF signal output
 - Ground terminal
 - Grounding base
 2. **Rear Panel**
 - Current input terminal
 - Ground terminal
 - Grounding base
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5. Operating Instructions

1. Ensure that the grounding base of the instrument is securely connected to the grounding plate of the test system before use.
 2. Power on the device for measurement. If the interference signal is unknown, a 20dB attenuator should be added to the RF output port.
 3. Connect the test configuration as shown in the diagrams provided in the manual.
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6. Standard Accessories

Item	Quantity
ZN3790 LISN	1 unit

Item	Quantity
N-N Test Cable (1m)	1 unit
User Manual	1 copy
Certificate of Conformity	1 copy
50Ω 5W Load	Optional
5W 20dB Attenuator	Optional

7. Warranty

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

Appendix: Impedance Characteristics

Frequency (kHz)	Impedance (Ω)	Phase Angle (°)
10	5.22	26.55
100	25.11	51.22
1000	49.38	9.04
10000	49.99	0.91

8. Product Photo



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