

ZN23101A Current Probe - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN23101A
Type: Current Probe
Frequency Range: 10kHz – 100MHz

The ZN23101A current probe is designed for detecting conducted interference signals on cables with a diameter of less than 30mm, within the frequency range of 10kHz to 100MHz. It is also suitable for injecting signals into cables for immunity testing of devices under test (DUT).

2. Technical Specifications

Parameter	Specification
Frequency Range	10kHz – 100MHz
Test Aperture	Φ30mm
Transfer Admittance	Refer to Chart 1
Power Handling Capability	Can withstand an average power of 5W during immunity tests
Size	150mm × 120mm × 35mm
Weight	0.8kg
Operating Temperature	0°C – 40°C
Storage Temperature	-40°C – 60°C
Operating Humidity	20 – 90% RH
Storage Humidity	Up to 90% RH
Atmospheric Pressure	86kPa – 106kPa

3. Key Features

- **Accurate Interference Detection:** Suitable for detecting conducted interference signals on cables.
 - **Wide Frequency Range:** Covers 10kHz to 100MHz, enabling a wide range of measurements.
 - **Durable Design:** The probe can withstand up to 5W power during immunity testing, making it highly durable for various testing applications.
 - **Self-Test Equipment Available:** The ZN23101A can be paired with optional self-test equipment for calibration, including a calibration device, a 50Ω load, and a signal source.
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4. Calibration Method

To ensure accurate measurements, a calibration setup with a signal source and a 50Ω load is used. The transfer admittance (Y) can be calculated using the following formula:

$$Y = V_1 - V_2 - 34(dBs)$$

Where:

- V_1 is the voltage measured on the coaxial line.
 - V_2 is the voltage measured on the coaxial line when connected to a 50Ω load.
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5. Standard Accessories

Item	Quantity
ZN23101A Current Probe	1 unit
Test Cable (N-N, 2m)	1 unit
User Manual	1 copy

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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