

ZN30401 Triple-Loop Antenna - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30401
Type: Three-Loop Antenna
Frequency Range: 9kHz - 30MHz

The ZN30401 Triple-Loop Antenna is a standard antenna designed for electromagnetic compatibility (EMC) measurements of electrical lighting and similar devices. It is used for measuring radiated electromagnetic disturbances in the frequency range of 9kHz to 30MHz. The antenna consists of three mutually perpendicular loops, and with a switching mechanism, it allows measurement of disturbance signals in the X, Y, and Z planes. The antenna complies with the **CISPR16-1-4:2019** standard and is equivalent to the **GB6113.104-2021** national standard.

2. Technical Specifications

Parameter	Specification
Frequency Range	9kHz - 30MHz
Antenna Factor	72.52 - 89.3dBΩ (±3dBΩ)
Output Impedance	50Ω
Antenna Diameter	2m
Antenna Size	2.4m × 2.4m × 2.6m
Antenna Weight	50kg
Packaging Box Dimensions	Box 1: 1615mm × 300mm × 220mm (9.9kg) Box 2: 1685mm × 430mm × 300mm (43.8kg)

3. Standard Accessories

Item	Quantity
ZN30401 Triple-Loop Antenna	1 unit
Cables (X, Y, Z directions, 2m each, N-BNC)	3 units
Test Cable (5m, N-N)	1 unit
User Manual	1 copy
Certificate of Conformity	1 copy
USB Drive (Antenna Data)	1 unit
Optional: ZN30400 Calibration Antenna	Optional

4. Operating Instructions

1. Place the device under test (DUT) at the center of the antenna.
2. Connect the measurement equipment to the output of the three-loop antenna, and use the switch to measure disturbance signals in the X, Y, and Z directions.
3. **Note:** All cables of the DUT should exit the antenna space at a 45° angle and maintain a distance of at least 0.4m from any loop.

5. Warranty Policy

- **Warranty Period:** 18 months from the date of shipment.
- **Warranty Conditions:** The warranty covers defects in materials and workmanship under normal transportation and usage conditions, and the company will be responsible for repairs.

6. Product Photo

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