

# ZN30508 Micro Biconical Antenna - Product Datasheet

**Manufacturer:** Beijing Daze Technology Co., Ltd.



## 1. Product Overview

**Model:** ZN30508  
**Type:** Micro Biconical Antenna  
**Frequency Range:** 80MHz - 3GHz

The ZN30508 Micro Biconical Antenna is designed for site evaluation, field strength (selective) measurements, and generating specific field strengths. It is also suitable for harmonic measurements and complies with the **IEC61000-4-3** standard. The ZN30508 antenna is lightweight, portable, and has been tested by the China National Institute of Metrology to meet the technical standards of similar international products, making it a viable domestic alternative to imported antennas.

The ZN30508 consists of an antenna matching unit and two types of elements (conical and plate elements). Depending on the testing requirements, the elements can be interchanged to achieve high-frequency or low-frequency measurements. The conical elements are primarily used for high-frequency measurements, while the plate elements are used for low-frequency measurements.

## 2. Technical Specifications

| Parameter                      | Specification                                                |
|--------------------------------|--------------------------------------------------------------|
| Frequency Range                | 80MHz - 3GHz                                                 |
| Antenna Impedance              | 50Ω                                                          |
| Connector Port                 | N-Type                                                       |
| Maximum Power                  | ≤ 20W                                                        |
| Conical Element Antenna Factor | 25 - 60 dB/m, see Factor Table 1 and Graph 1                 |
| Conical Element Antenna Gain   | -1.5 - 1.5 dBi (600MHz - 3GHz), see Gain Table 1 and Graph 2 |
| Plate Element Antenna Factor   | 18 - 50 dB/m, see Factor Table 2 and Graph 3                 |
| Plate Element Antenna Gain     | See Gain Table 2 and Graph 4                                 |
| Conical Element VSWR           | See Graph 5                                                  |
| Plate Element VSWR             | See Graph 6                                                  |

| Parameter                 | Specification                  |
|---------------------------|--------------------------------|
| Conical Element Diameter  | D = 49mm                       |
| Conical Element Length    | LE = 140mm                     |
| Plate Element Diameter    | D = 109mm                      |
| Plate Element Length      | LE = 240mm                     |
| Antenna Mounting Diameter | 22mm tube diameter, LH = 560mm |
| Antenna Weight            | 0.76 kg                        |
| Packaging Box Dimensions  | 645 × 295 × 170mm              |
| Packaging Box Weight      | Approx. 6.5 kg                 |

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### 3. Standard Accessories

| Item                          | Quantity |
|-------------------------------|----------|
| ZN30508 Antenna Matching Unit | 1 unit   |
| Conical Elements              | 2 units  |
| Plate Element                 | 1 unit   |
| M4 Hand-Tightened Screws      | 2 units  |
| Antenna Support Rod           | 1 unit   |
| N-N Cable (5 meters)          | 1 unit   |
| Tripod (packaged separately)  | 1 unit   |
| User Manual                   | 1 copy   |
| Certificate of Conformity     | 1 copy   |

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### 4. Other Precautions

1. Handle the antenna with care to avoid impact or damage.
  2. Store the antenna in an environment free from corrosive gases.
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## 5. Warranty

- **Warranty Period:** 18 months from the date of shipment.
- **Warranty Conditions:** The company is responsible for repairs under normal transportation and usage conditions.

## 6. Product Photo



### Contact Information:

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