

# ZN30505A-S High-Power Biconical Antenna - Product Datasheet

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



## 1. Product Overview

**Model:** ZN30505A-S  
**Type:** High-Power Biconical Antenna  
**Frequency Range:** 30MHz - 200MHz

The ZN30505A-S High-Power Biconical Antenna is a broadband transmitting antenna designed with a wide frequency range, lightweight structure, and detachable antenna elements. It is capable of generating a field strength of 200V/m at a distance of 1 meter with an injected power of 500W, meeting the relevant testing requirements of the **GJB151B** military standard. This antenna is suitable as a domestic alternative to imported products.

## 2. Technical Specifications

| Parameter               | Specification                                    |
|-------------------------|--------------------------------------------------|
| Frequency Range         | 30MHz - 200MHz                                   |
| Field Strength at 1m    | 200V/m at 500W (Frequency range: 60MHz - 160MHz) |
| Impedance               | 50Ω                                              |
| VSWR                    | < 5 (average)                                    |
| Maximum Power Input     | ≤ 1KW                                            |
| Antenna Gain and Factor | See gain and factor charts                       |
| Antenna Positioning     | Horizontal and vertical                          |
| Antenna Dimensions      | 1976mm × 932mm × 544mm                           |
| Weight                  | Approx. 3kg                                      |

## 3. Key Features

- Wideband Performance:** Supports a frequency range from 30MHz to 200MHz.

- **High Power Capacity:** Capable of handling power up to 1KW.
  - **High Field Strength:** Generates 200V/m at 1-meter distance with 500W power input.
  - **Lightweight and Detachable:** The antenna elements are detachable, and the overall structure is lightweight, making it easy to handle.
  - **Horizontal and Vertical Polarization:** Supports both horizontal and vertical positioning.
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## 4. Antenna Gain and Factor

| Frequency (MHz) | Antenna Factor (dB/m) | Gain (dBi) |
|-----------------|-----------------------|------------|
| 30              | 6.7                   | -6.9       |
| 60              | 5.2                   | 0.6        |
| 100             | 9.8                   | 0.4        |
| 160             | 10.9                  | 3.4        |
| 200             | 14.0                  | 2.3        |

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## 5. Included Accessories

| Item                      | Quantity |
|---------------------------|----------|
| Antenna Elements          | 2 units  |
| Antenna Matching Unit     | 1 unit   |
| Mounting Platform         | 1 unit   |
| User Manual               | 1 copy   |
| Tripod                    | 1 unit   |
| Certificate of Conformity | 1 copy   |

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## 6. Operating Instructions

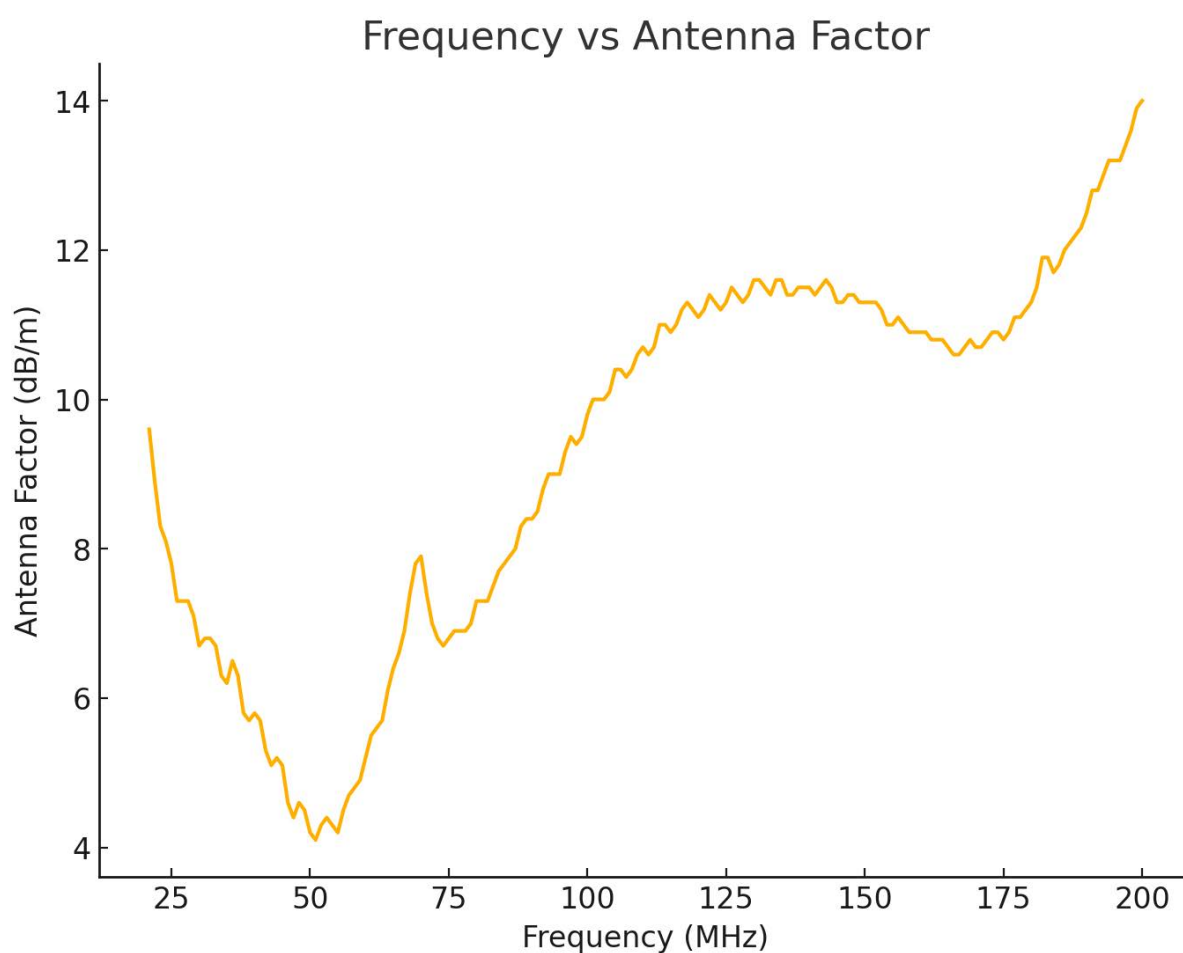
- Handle the antenna with care to avoid damage from impact.
- Store the antenna in an environment free from corrosive gases.

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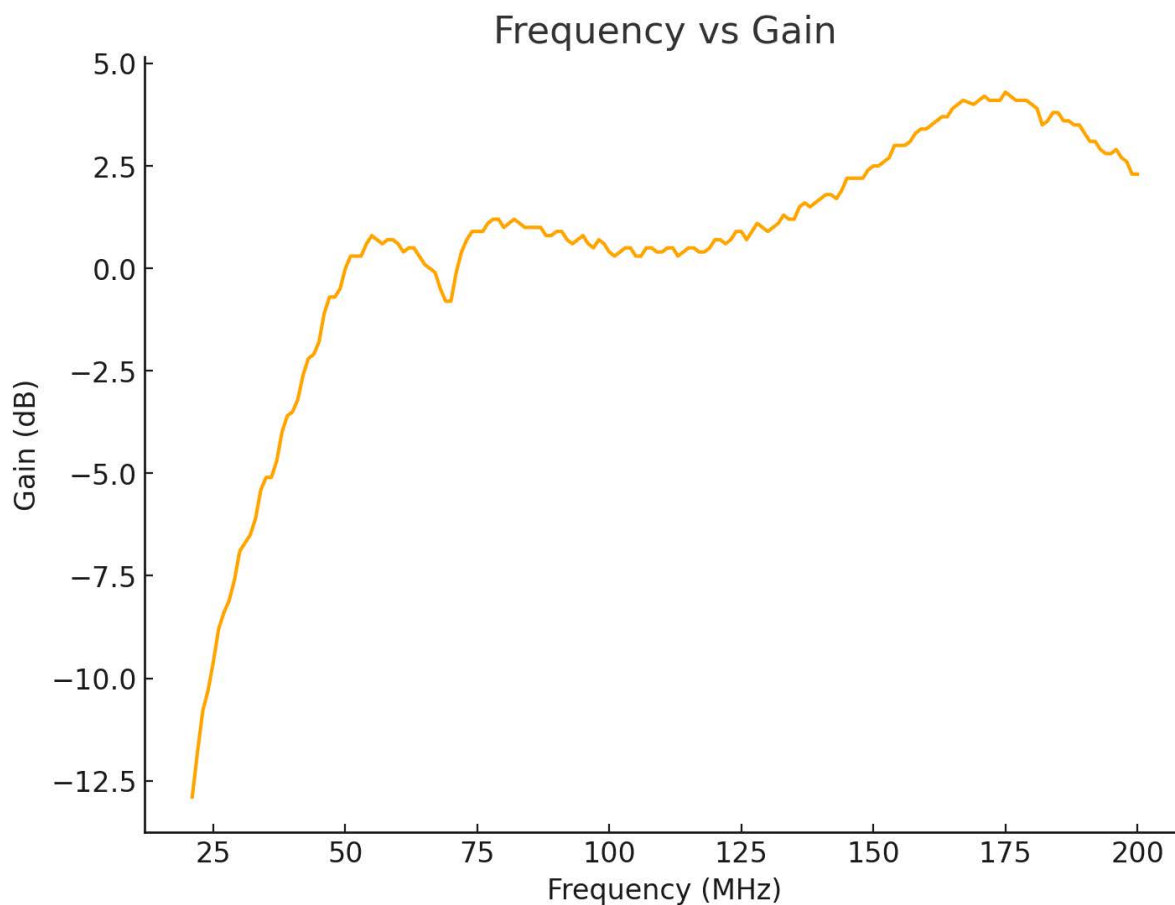
## 7. Warranty

- **Duration:** 18 months from the date of shipment.
  - **Conditions:** The warranty covers defects in materials and workmanship under normal use and conditions.
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## 8. Antenna Factor and Gain



**Antenna Factor Chart**



**Antenna Gain Chart**

## 9. Product Photo



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