

ZN30505L High-Power Transmitting Antenna - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30505L
Type: High-Power Transmitting Antenna
Frequency Range: 20MHz - 220MHz

The ZN30505L High-Power Transmitting Antenna is a linearly polarized log-periodic antenna designed for use in semi-anechoic chamber testing. It has adjustable antenna height, polarization (horizontal or vertical), and elevation angle (from 0° to -40°). The antenna is mounted on a wheeled cart for easy mobility, and it can be disassembled to fit through doors. It has a maximum power input of 10KW and can generate an electric field of 200V/m at a distance of 1 meter, meeting the requirements of the **ISO 11451-2:2005(E)** standard for automotive electromagnetic testing.

2. Technical Specifications

Parameter	Specification
Frequency Range	20MHz - 220MHz
Output Impedance	50Ω
Input Connector	13-30 seat
Maximum Power Input	≤10KW
VSWR	≤2.5 (average)
Polarization	Horizontal/Vertical
Elevation Angle Adjustment	0° to -40°
Antenna Size	3.86m × 3.4m × 3.18m
Antenna Weight	Approx. 50kg
Antenna Cart Dimensions	3.3×1.53×1.3m
Antenna Cart Weight	Approx. 90kg

3. Key Features

- **Wide Frequency Range:** The antenna operates within the range of 20MHz to 220MHz.
 - **High Power Capacity:** Capable of handling up to 10KW of power, suitable for high-field strength generation.
 - **Mobility:** The antenna is mounted on a wheeled cart for easy movement within testing environments.
 - **Adjustable Elevation and Polarization:** The antenna's polarization (horizontal/vertical) and elevation angle can be adjusted manually.
 - **Compatibility:** Fully compliant with the ISO 11451-2:2005(E) standard for automotive electromagnetic immunity testing.
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4. Standard Accessories

Item	Quantity
ZN30505L Antenna	1 unit
Antenna Cart	1 unit
Cable (optional)	1 piece
User Manual	1 copy
Certificate of Conformity	1 copy

5. Operating Instructions

- **Antenna Height Adjustment:** The height of the antenna can be adjusted using the pulley system on the antenna cart.
 - **Polarization and Elevation Adjustment:** The polarization and elevation angle can be adjusted using the two adjustment handles on the antenna cart.
 - **Detachable Elements:** The longest antenna elements can be removed to facilitate moving the cart into smaller testing environments, such as semi-anechoic chambers.
 - **Handling Precautions:** Handle the antenna carefully to avoid damage, and store it in a non-corrosive environment.
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6. Warranty

- **Duration:** 18 months from the date of shipment.
 - **Conditions:** The warranty covers defects in materials and workmanship under normal transportation and usage conditions.
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7. Product Photo



Contact Information:

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