

ZN30602 Tunable Electric Field Transmitting Antenna - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30602
Type: Tunable Electric Field Transmitting Antenna
Frequency Range: 1.8MHz - 28MHz

The ZN30602 is a tunable electric field transmitting antenna developed by Beijing Da Ze Technology. It features a wide frequency range (1.8MHz - 28MHz), high transmission power (up to 200W), low VSWR (less than 2), and high transmission efficiency. The antenna is easy to install and operate, making it suitable for automotive electromagnetic immunity testing in accordance with **GB/T 33012.2-2016 (ISO 11451-3:2007)** standards. It can also be used for communication in the same frequency band.

2. Technical Specifications

Parameter	Specification
Frequency Range	1.8MHz - 28MHz (selectable frequency points)
Input Impedance	50Ω
Input Interface	N-Type
VSWR	< 2 (input power ≤ 200W)
Maximum Input Power	≤ 200W
Antenna Adjustment Speed	3mm/s
Operating Voltage	12V DC
Antenna Height	2m (at 28MHz), 2.6m (at 1.8MHz)
Antenna Weight	4kg (antenna body), 5kg (antenna stand)
Operating Conditions	Temperature: 0°C ~ 40°C Humidity: 20% ~ 90% RH Atmospheric Pressure: 86 ~ 106kPa

3. Key Features

- **Wide Frequency Range:** Operates between 1.8MHz and 28MHz, with tunable frequency points.
 - **High Power Capacity:** Supports up to 200W input power.
 - **Low VSWR:** Ensures efficient operation with VSWR less than 2.
 - **Easy Operation:** Frequency adjustment is achieved by changing the antenna height, controlled via a software interface.
 - **Durability:** Designed to withstand the elements with proper care during transportation and storage.
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4. Standard Accessories

Item	Quantity
Antenna (main unit)	1 unit
Antenna Stand	1 unit
Controller	1 unit
Battery	1 unit
Battery Charger (AC 110V-240V)	1 unit
Controller Connection Cable	1 unit
Micro Vector Network Analyzer	Optional
User Manual	1 copy
Certificate of Conformity	1 copy

5. Operating Instructions

- The working frequency is adjusted by changing the antenna height, which is controlled through software. The system automatically calibrates the antenna to find the zero position before starting operation.
 - Adjustments can be made manually or automatically, with settings for speed and preset positions to facilitate quick adjustments.
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6. Transportation and Storage

- During transportation and handling, ensure that the equipment is moved smoothly and without impact.
 - The storage environment should be dry, with no corrosive gases or strong magnetic fields.
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7. Warranty

- **Duration:** 18 months from the date of shipment.
 - **Conditions:** Covers defects in materials and workmanship under normal use and transportation conditions. Batteries should be recharged every three months if not used for an extended period.
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8. Product Photo



Contact Information:

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