

ZN30700B Dual-Ridge Horn Antenna - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30700B
Type: Dual-Ridge Horn Antenna
Frequency Range: 6GHz - 18GHz

The ZN30700B Dual-Ridge Horn Antenna is a wideband antenna designed for electromagnetic compatibility (EMC) testing. It features a wide frequency range, lightweight design, low VSWR, high gain, and high power-handling capabilities. The antenna meets the requirements of the **RS103** test standard in **GJB151B-2013**.

2. Technical Specifications

Parameter	Specification
Frequency Range	6GHz - 18GHz
Impedance	50Ω (N-type connector)
VSWR	<1.5 average (Refer to Figure 2)
Gain	16.5 - 20.8dBi (refer to Figure 1)
3dB Beamwidth	(refer to Table 1)
Front-to-Back Ratio	>25dB
Polarization Isolation	>25dB
Operating Position	Horizontal/Vertical
Maximum Power Handling	300W
Dimensions	145mm × 117mm x 330mm
Antenna Weight	Approx. 1.2kg

3. Standard Accessories

Item	Quantity
ZN30700B Antenna (Main Unit)	1 unit
Tripod (Optional)	1 unit
Test Cable (Optional)	1 unit
Connector	1 unit
User Manual	1 copy
Certificate of Conformity	1 copy

4. Operating Instructions

- Installation:** Mount the antenna on the tripod (if applicable) and adjust it to the required position (horizontal or vertical).
- Connection:** Connect the antenna to the testing equipment using the provided test cable.
- Operation:** Ensure the antenna operates within the specified power limit and frequency range to avoid damage.
- Handling:** Handle the antenna carefully to avoid impact or damage. Store it in a non-corrosive environment.

5. Warranty

- Warranty Period:** 18 months from the date of shipment.
- Warranty Conditions:** Covers defects in materials and workmanship under normal usage and transportation conditions.

6. Additional Graphs and Charts

Frequency (GHz)	6	9	12	15	18
Gain (dB)	16.5	18.8	20	20.6	20.8
E-plane 3dB Beamwidth (°)	22.8	16.9	14.7	15.7	19.2
H-plane 3dB Beamwidth (°)	26.3	19.2	15	12.7	11.2

Table 1

Antenna Gain Factor

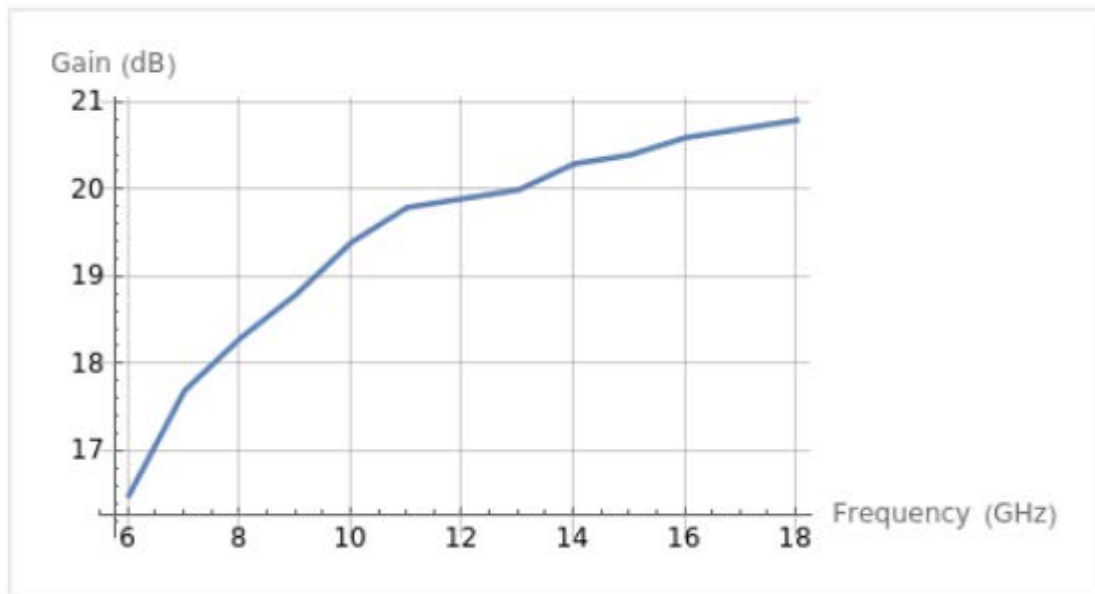


Figure 1

VSWR



Figure 2

7. Product Image



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