

ZN30700A Dual-Ridge Horn Antenna - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30700A
Type: Dual-Ridge Horn Antenna
Frequency Range: 1GHz - 6GHz

The ZN30700A Dual-Ridge Horn Antenna is a wideband antenna designed for electromagnetic compatibility (EMC) testing, especially for **RS103** testing as per **GJB151B-2013**. This antenna is characterized by wide bandwidth, lightweight design, low VSWR, high gain, and high power-handling capabilities.

2. Technical Specifications

Parameter	Specification
Frequency Range	1GHz - 6GHz
Impedance	50Ω (N-type connector)
VSWR	≤1.5 (average)
Antenna Gain	(Refer to Gain and Correction Factor Table)
Antenna Correction Factor	(Refer to Gain and Correction Factor Table)
Antenna VSWR	(Refer to Additional Graphs section 8)
3dB Beamwidth	(Refer to 3dB Beamwidth Table)
Front-to-Back Ratio	>25dB
Polarization Isolation	>25dB
Operating Orientation	Horizontal/Vertical
Maximum Power Handling	300W
Antenna Weight	8.8kg
Antenna Dimensions	456mm × 341mm

3. Standard Accessories

Item	Quantity
ZN30700A Antenna (Main Unit)	1 unit
Antenna Stand (Optional)	1 unit
Test Cable (Optional)	1 unit
Connector	1 unit
User Manual	1 copy
Certificate of Conformity	1 copy

4. Gain and Correction Factor Table

Frequency (GHz)	Gain (dBi)	Correction Factor (dB/m)
1	12.4	17.82
1.5	13.2	17.02
2	14.5	15.72
2.5	15.0	15.22
3	16.0	14.22
3.5	15.8	14.42
4	16.1	14.12
4.5	16.1	14.12
5	16.4	13.82
5.5	16.6	13.62
6	17.1	13.12

5. 3dB Beamwidth Table

Frequency (GHz)	E-plane Beamwidth (degrees)	H-plane Beamwidth (degrees)
1	43.8	41.0
2	27.1	27.6

Frequency (GHz)	E-plane Beamwidth (degrees)	H-plane Beamwidth (degrees)
3	27.8	19.9
4	32.5	19.7
5	31.0	22.2
6	31.3	22.0

6. Operating Instructions

- Installation:** Mount the antenna on the stand (if applicable) and adjust it to the required orientation (horizontal or vertical).
 - Connection:** Use the provided test cable to connect the antenna to the testing equipment.
 - 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, and store it in a non-corrosive environment.
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7. Warranty

- Warranty Period:** 18 months from the date of shipment.
 - Warranty Conditions:** The warranty covers defects in materials and workmanship under normal usage and transportation conditions.
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8. Additional Graphs

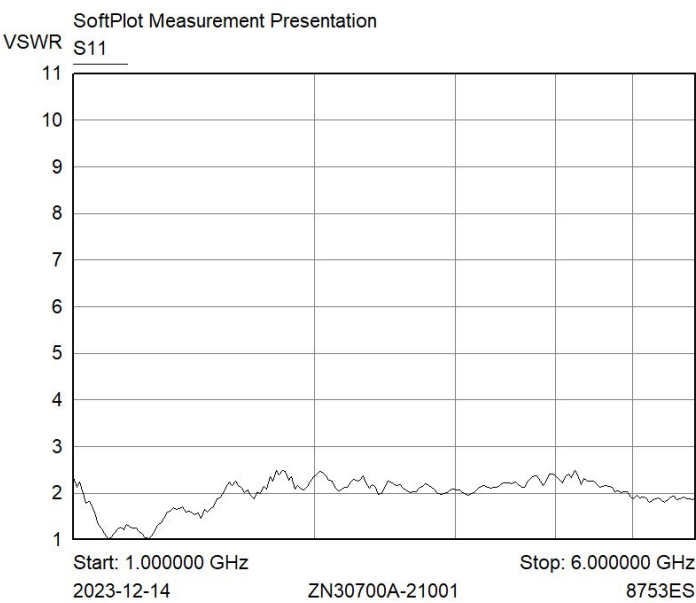


Figure 1

9. Product Image



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