

ZN30701 Dual-Ridge Horn Antenna - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30701
Type: Dual-Ridge Horn Antenna
Frequency Range: 1GHz - 18GHz

The ZN30701 Dual-Ridge Horn Antenna is a wideband antenna that features a broad frequency range, lightweight design, and low VSWR. It is suitable for both receiving and transmitting measurements. The antenna is commonly used in electromagnetic compatibility (EMC) testing, signal monitoring, and other related applications.

2. Technical Specifications

Parameter	Specification
Frequency Range	1GHz - 18GHz
Impedance	50Ω (N-type connector)
VSWR	Refer to Chart below
Gain	Refer to Table below
Antenna Correction Factor	Refer to Table below
3dB Beamwidth	Refer to Table below
Front-to-Back Ratio	>25dB
Polarization Isolation	>25dB
Maximum Input Power	200W
Operating Orientation	Horizontal/Vertical
Antenna Dimensions	Refer to Figure below
Antenna Weight	1.6kg

3. Standard Accessories

Item	Quantity
ZN30701 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. Gain and Correction Factor Table

Frequency (GHz)	Correction Factor (dB/m)	Gain (dBi)
1	24.1	6.1
1.5	25.3	8.5
2	28.4	7.9
2.5	28.8	9.4
3	30.0	9.8
4	31.5	10.8
5	33.4	10.8
6	35.2	10.6
7	37.2	9.9
8	36.4	11.9
9	37.4	11.9
10	38.4	11.8
11	39.5	11.6
12	39.4	12.4
13	40.7	11.8
14	43.5	9.7
15	38.5	15.3
16	40.3	14.0

Frequency (GHz)	Correction Factor (dB/m)	Gain (dBi)
17	44.6	10.2
18	45.1	10.3

5. 3dB Beamwidth Table

Frequency (GHz)	E-plane Beamwidth (degrees)	H-plane Beamwidth (degrees)
1	66.0	92.5
2	66.5	60.5
3	33.9	42.0
4	56.9	41.8
5	48.3	42.9
6	42.2	47.2
7	42.3	43.5
8	39.0	50.9
9	40.0	48.9
10	39.4	45.1
11	36.9	44.4
12	33.4	27.7
13	27.8	21.3
14	20.0	15.1
15	26.7	34.3
16	29.3	35.4
17	26.6	26.5
18	13.9	21.0

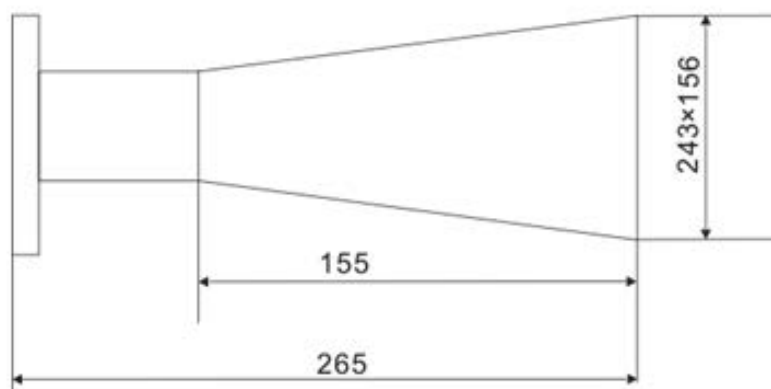
6. Warranty

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

7. Additional Graphs and Charts



VSWR



Antenna Dimensions

8. Product Photo



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