

ZN30702 Horn Antenna - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30702
Type: Horn Antenna
Frequency Range: 18GHz - 26.5GHz

The ZN30702 Horn Antenna is a wideband antenna known for its broad frequency coverage, lightweight design, and low VSWR. It is suitable for receiving measurements and various high-frequency applications.

2. Technical Specifications

Parameter	Specification
Frequency Range	18GHz - 26.5GHz
Impedance	50Ω (K-type connector)
VSWR	<1.5
Gain	Refer to Gain and Correction Factor Table
Correction Factor	Refer to Gain and Correction Factor Table
VSWR Curve	Refer to Additional Chart
3dB Beamwidth (E-plane)	Refer to Table below
3dB Beamwidth (H-plane)	Refer to Table below
Front-to-Back Ratio	>25dB
Polarization Isolation	>25dB
Maximum Power Handling	50W
Operating Orientation	Horizontal/Vertical
Antenna Dimensions	70 x 49 x 156mm
Antenna Weight	0.6kg

3. Standard Accessories

Item	Quantity
ZN30702 Antenna (Main Unit)	1 unit
Antenna Connector	1 unit
Tripod (Optional)	1 unit
Test Cable (Optional)	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)
18.0	23.584	31.73
18.3	23.668	31.77
18.5	23.751	31.80
18.8	23.831	31.84
19.0	23.901	31.88
19.3	23.985	31.91
19.5	24.059	31.95
19.8	24.131	31.99
20.0	24.201	32.03
20.3	24.270	32.07
20.5	24.336	32.11
20.8	24.401	32.15
21.0	24.464	32.19
21.3	24.526	32.23
21.5	24.586	32.27
21.8	24.644	32.32
22.0	24.700	32.36
22.3	24.755	32.40

Frequency (GHz)	Gain (dBi)	Correction Factor (dB/m)
22.5	24.809	32.44
22.8	24.860	32.49
23.0	24.911	32.53
23.3	24.961	32.58
23.5	25.007	32.62
23.8	25.045	32.68
24.0	25.098	32.72
24.3	25.137	32.77
24.5	25.183	32.81
24.8	25.223	32.86
25.0	25.262	32.91
25.3	25.304	32.95
25.5	25.336	33.00
25.8	25.371	33.05
26.0	25.405	33.10
26.3	25.438	33.15
26.5	25.469	33.21
26.8	25.499	33.26
27.0	25.528	33.31

5. 3dB Beamwidth Table

Frequency (GHz)	E-plane Beamwidth (degrees)	H-plane Beamwidth (degrees)
17.6	18.11	17.21
22.15	15.27	15.70
26.7	11.32	12.88

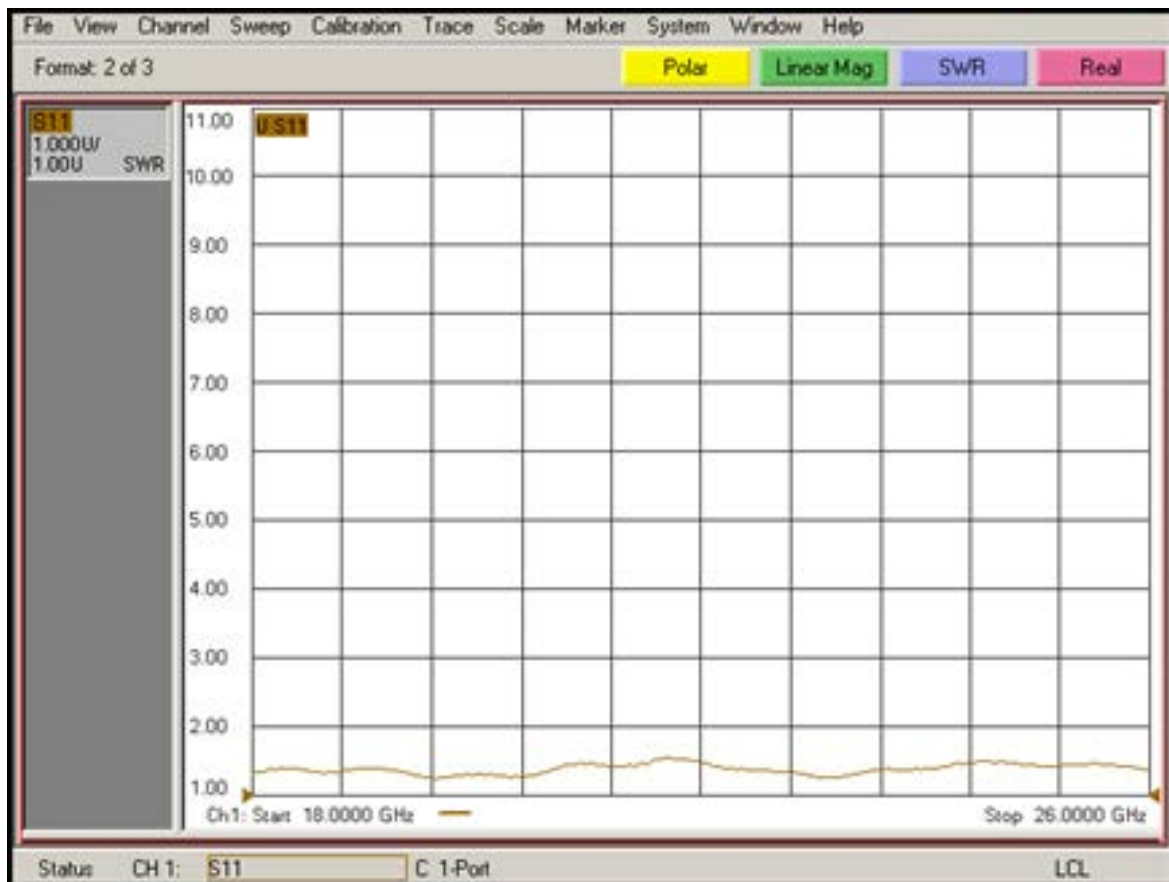
6. Operating Instructions

1. **Installation:** Handle the antenna with care, avoiding impact or collision.
 2. **Storage:** Store the antenna in an environment free of corrosive gases.
 3. **Connection:** Use the provided test cable to connect the antenna to the equipment.
 4. **Orientation:** The antenna can be used in both horizontal and vertical orientations.
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7. Warranty

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



VSWR

9. Product Photo



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