

ZN30505B-S Dual-Ridge Horn Antenna - Product Datasheet

Manufacturer: Beijing Daze Technology Co., Ltd.



1. Product Overview

Model: ZN30505B-S
Type: Dual-Ridge Horn Antenna
Frequency Range: 200MHz - 2000MHz

The ZN30505B-S Dual-Ridge Horn Antenna is a wideband antenna that offers wide frequency coverage, low VSWR, and high gain. It meets the requirements of **GJB151B-2013 RE102** and is widely used for electromagnetic compatibility (EMC) testing and field strength measurements.

2. Technical Specifications

Parameter	Specification
Frequency Range	200MHz - 2000MHz
VSWR	≤2
Maximum Power Handling	200W
Input Impedance	50Ω (N-type connector)
Gain	5 - 12dB
3dB Beamwidth (E-plane)	45°
3dB Beamwidth (H-plane)	45°
Antenna Dimensions	1003mm× 945mm × 690mm
Antenna Weight	Approx. 13.7kg
Antenna Material	Aluminum with oxidation treatment

3. Standard Accessories

Item	Quantity
ZN30505B-S Dual-Ridge Horn Antenna	1 unit
Antenna Mount (Horizontal/Vertical, optional)	1 set
Test Cable (optional)	1 unit
User Manual	1 copy
Certificate of Conformity	1 copy

4. Gain and Correction Factor Table

Frequency (GHz)	Antenna Factor (AF) (dB(1/m))	Gain (dBi)	VSWR
0.2	11.7	4.55	1.79
0.25	11.99	6.19	1.23
0.3	12.95	6.81	1.46
0.4	14.6	7.66	1.7
0.5	16.29	7.91	1.3
0.6	18.21	7.58	1.48
0.7	18.87	8.25	1.05
0.8	20.36	7.92	1.06
0.9	21.37	7.94	1.39
1	22.94	7.28	1.35

5. Operating Instructions

- Installation:** Mount the antenna on the provided stand and adjust it to the desired height and angle.
- Connection:** Connect the antenna to the testing equipment using the provided test cable.
- Directional Adjustment:** Adjust the antenna direction to optimize signal quality.
- Caution:** Ensure proper heat dissipation during operation and avoid exceeding the maximum input power to prevent damage.

6. Warranty

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



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