

ZN30705A — Millimeter-Wave Pyramidal Horn Measurement Antenna

PRODUCT DATASHEET | 33–50 GHz | ZHINAN

33–50 GHz	UG383/U flange	VSWR ≤ 1.25
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1. Product Overview

The ZN30705A is a broadband pyramidal horn antenna for transmit and receive measurements. Its low VSWR, lightweight construction and defined waveguide interface support repeatable millimeter-wave EMC and RF measurement setups.

2. Technical Specifications

Parameter	Specification
Frequency range	33–50 GHz
Nominal impedance	50 Ω
Waveguide flange	UG383/U
VSWR	≤ 1.25
Gain	Refer to measured performance curve
Antenna factor	Refer to measured performance curve
3 dB beamwidth	Refer to measured performance curve
Front-to-back ratio	>25 dB
Polarization isolation	>25 dB
Maximum input power	20 W
Polarization	Horizontal / vertical
Weight	Approx. 235 g

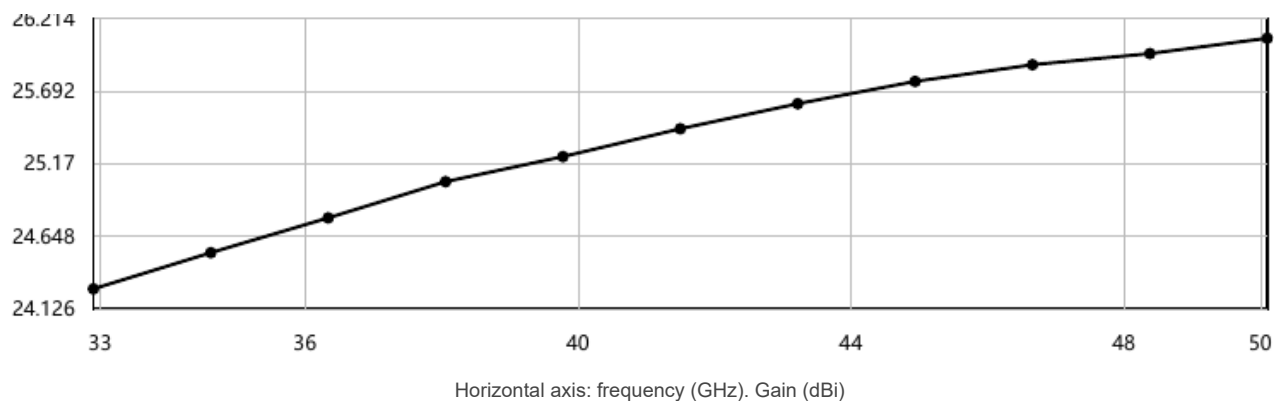
3. Typical Applications

- Millimeter-wave radiated emissions and immunity measurements
- Antenna-factor and field-strength measurement chains
- Broadband transmit and receive measurements

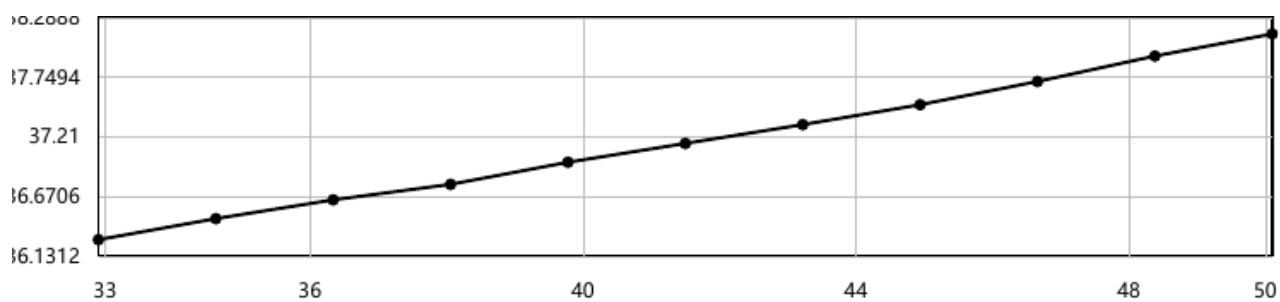
4. Standard Package

Item	Quantity / description
Antenna	1
ZN33113 antenna stand and adapter	Optional
Flexible waveguide, 1 m	Optional
User manual and certificate	1 set

5. Antenna Gain

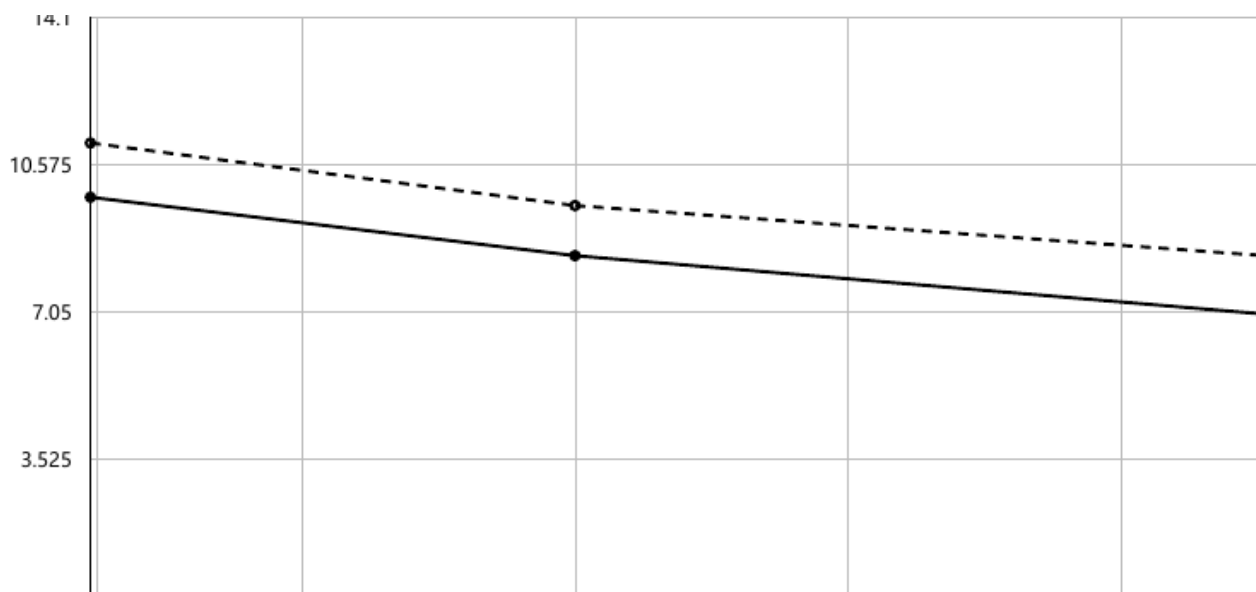


6. Antenna Factor



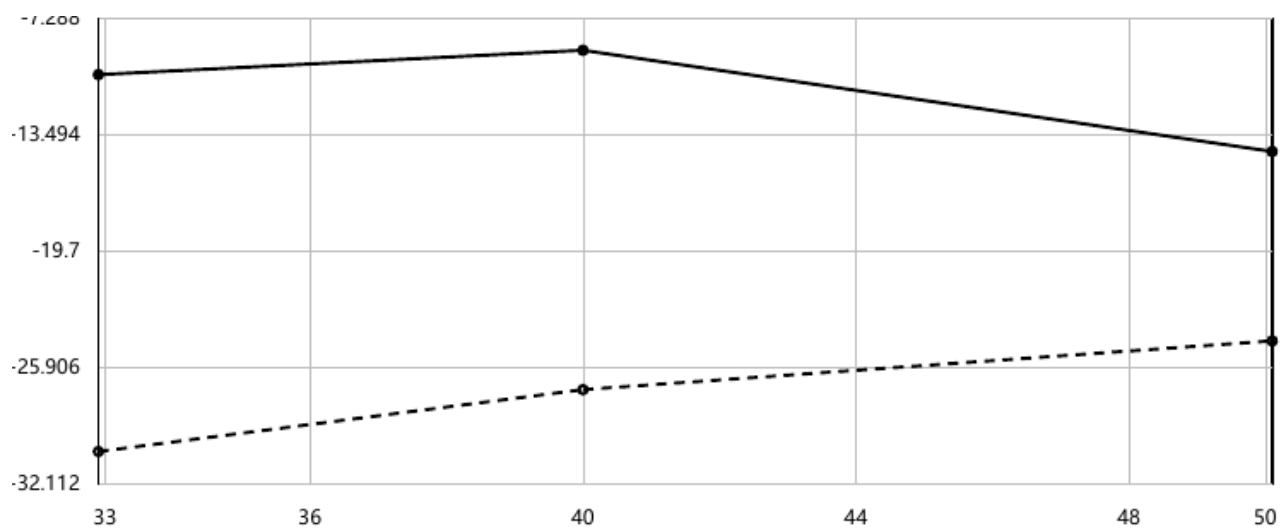
Horizontal axis: frequency (GHz). Antenna factor (dB/m)

7. 3 dB Beamwidth



Horizontal axis: frequency (GHz). Beamwidth (degrees); solid: E-plane, dashed: H-plane

8. Sidelobe Level



Horizontal axis: frequency (GHz). Sidelobe level (dB); solid: E-plane, dashed: H-plane

9. Product Image



Performance curves are reproduced from the original Chinese technical record. No measured points have been interpolated or replaced.