H-A50 Datasheet





Pyramidal Horn Antenna

H-A50 is a pyramidal horn antenna covering frequencies from 33 GHz to 50 GHz. Design and manufacturing of the antenna were done with detail on quality and low price. This pyramidal horn antenna is lightweight and small in size, optimal as a feed horn for larger antenna structures such as parabolic antennas, as standard calibration antennas to measure the gain of other antennas.

Features and Specifications



Technical Performance

Wide bandwidth
Low return loss
Individual calibration
Covers 5G frequency band



Design and Surface Treatment

Corrosion-resistant coating

Includes standard mount



Manufacturing Technology

Manufactured using a high grade aluminum alloy

Extremely durable

High quality 2.40mm type coaxial connector



Product Packaging Includes

Adapter with ¼ inch inner thread, supplied with antenna

Linear polarized pyramidal horn antenna

Product Parameters

| Product Name | H-A50 |
|-----------------------|------------------------|
| Product Category | Pyramidal Horn Antenna |
| ELECTRICAL SPECIFICAT | TIONS |
| Frequency Range | 33 GHz – 50 GHz |
| VSWR (max.) | 1.35 |
| VSWR (avg.) | 1.15 |
| Impedance | 50 Ohm |
| Waveguide Size | WR90 |
| Power (CW / Peak) | 10 W / 20 W |
| Antenna Factor | 41 – 44 dB/m |
| Polarization | Linear |

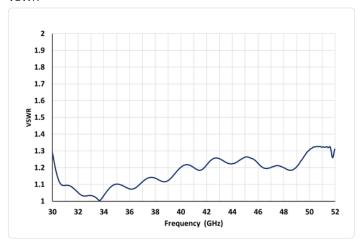
| Width | 36.4 mm (1.433 in) |
|--|---|
| Height | 25.9 mm (1.020 in) |
| Depth | 58.8 mm (2.315 in) |
| Weight | 0.125 kg (0.276 lb) |
| OPERATING CONDITIONS Rated Temperature Range | 0°C – +50°C |
| Storage Temperature Range | -20°C – +70°C |
| MOUNTING FLANGE | |
| Mounting | Adapter with ¼ inch inner thread, supplied with antenna |



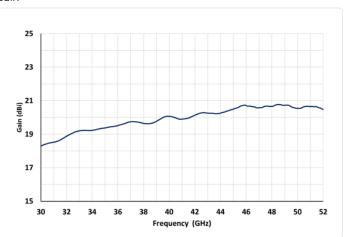
Parameters and Performance

Typical parameters

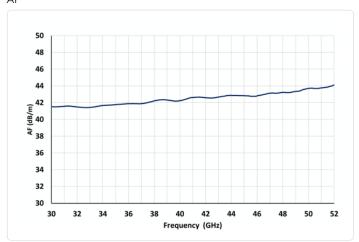
VSWR



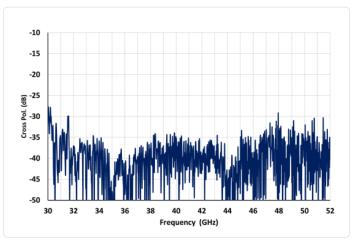
Gain



ΑF



Cross Polarization



Packaging and Accessories

What's in a box

- H-A50 Antenna
- Antenna specific mount adapter with 1/4 inch inner thread
- Factory calibration certificate
- Full calibration report of each antenna
- QR code accessing online portal
- Calibration test dataset (available online)

1/4

Factory calibration report

Custom services

- Custom mounting solutions
- Custom calibration data

Accessories

• Standard mounting flange

Manufacturer Information

About Datasheet

Product information available also online at https://www.rfspin.com/product/h-a50/

Data and specifications subject to change without notice.

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