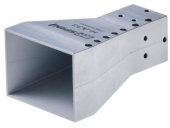


## Pyramidal Horn Antenna



H-A33 is a pyramidal horn antenna specially developed for 5G testing. Covering frequency from 22 GHz to 33 GHz. Design and manufacturing of the antenna were done with detail on quality and low price. With a smart holder, you can fix the antenna in E or H plane, and the connector always pointing backward.

### 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 K type coaxial connector



#### Product Packaging Includes

- Linear polarized pyramidal horn antenna
- Universal antenna mount

### Product Parameters

#### PRODUCT IDENTIFICATION

Product Name	<b>H-A33</b>
Product Category	<b>Pyramidal Horn Antenna</b>

#### ELECTRICAL SPECIFICATIONS

Frequency Range	<b>22 GHz – 33 GHz</b>
VSWR (max.)	<b>1.3</b>
VSWR (avg.)	<b>1.15</b>
Impedance	<b>50 Ohm</b>
Connector	<b>K</b>
Power (CW / Peak)	<b>15 W / 30 W</b>
Antenna Factor	<b>38 – 40 dB/m</b>
Polarization	<b>Linear</b>

#### PHYSICAL SPECIFICATIONS

Width	<b>52.4 mm (2.063 in)</b>
Height	<b>38.4 mm (1.512 in)</b>
Depth	<b>84 mm (3.307 in)</b>
Weight	<b>0.145 kg (0.320 lb)</b>

#### OPERATING CONDITIONS

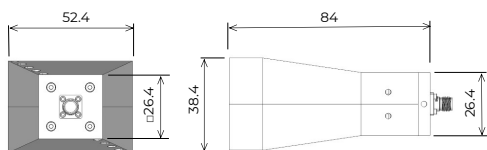
Rated Temperature Range	<b>0°C – +50°C</b>
Storage Temperature Range	<b>-20°C – +70°C</b>

#### MOUNTING FLANGE

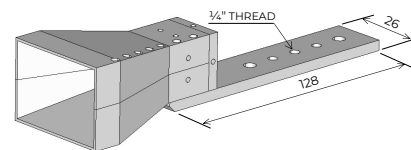
Mounting	<b>Adapter with ¼ inch inner thread, supplied with antenna</b>
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### Mechanical Drawings

Antenna



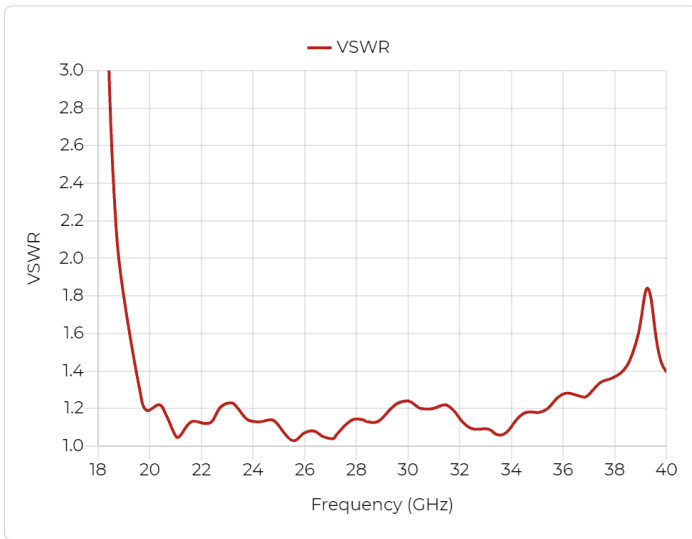
Mounting flange



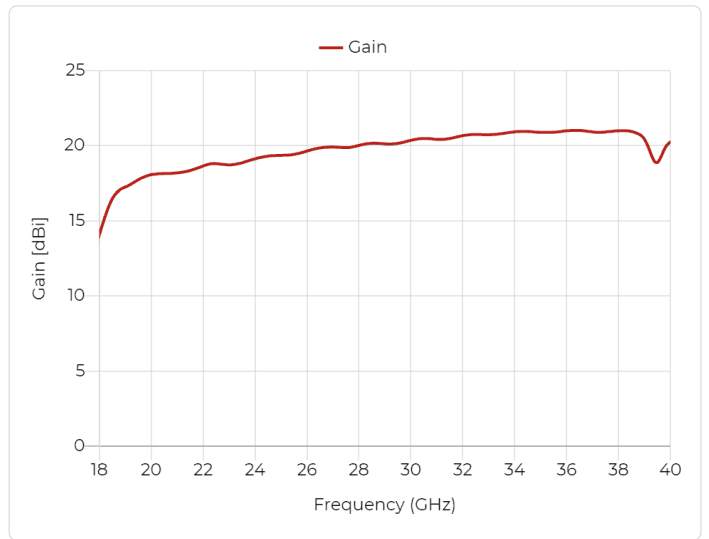
## Parameters and Performance

### Typical parameters

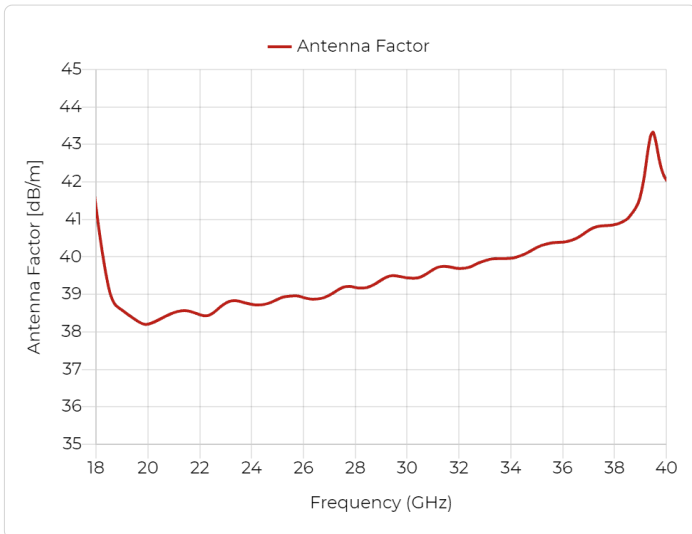
VSWR



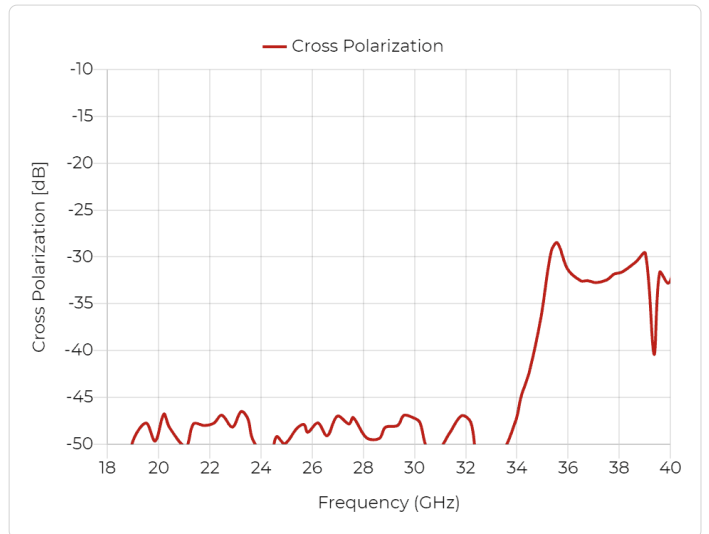
Gain



Antenna Factor

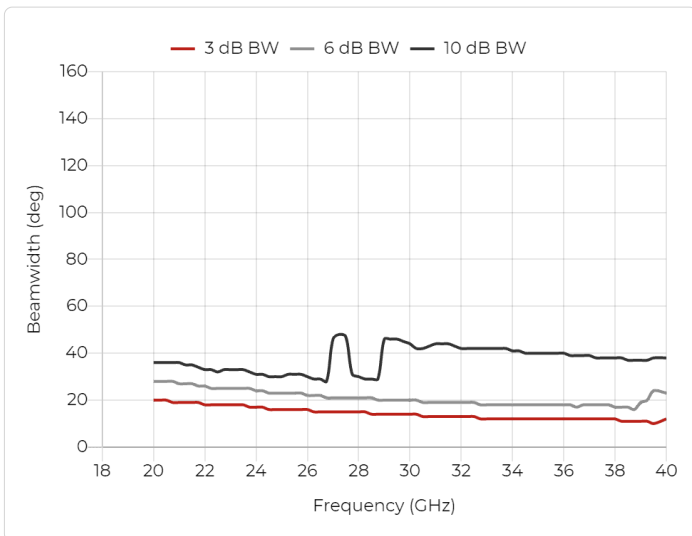


Cross Polarization

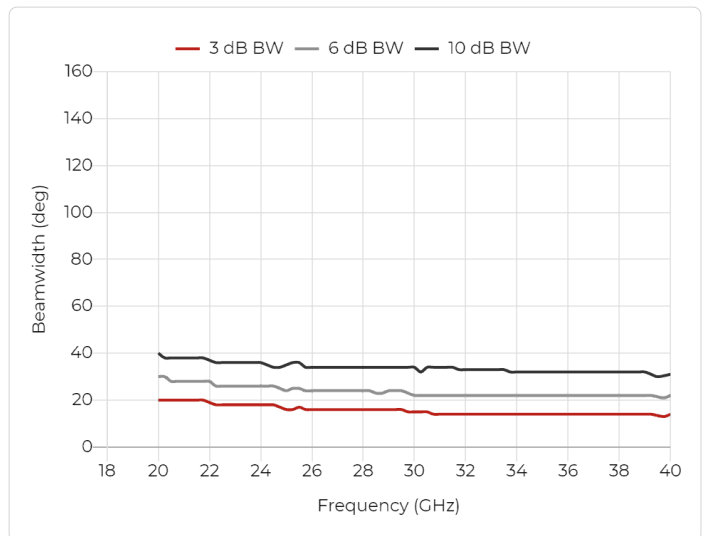


### Beamwidth

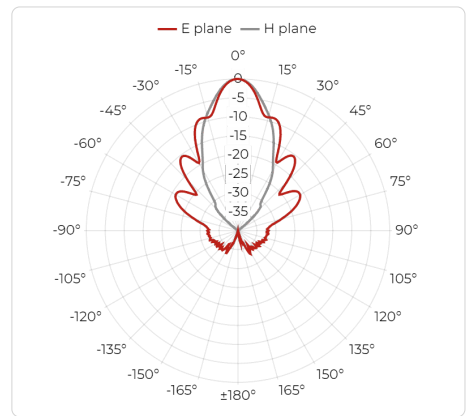
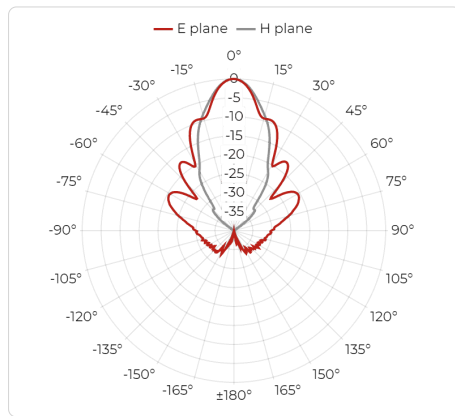
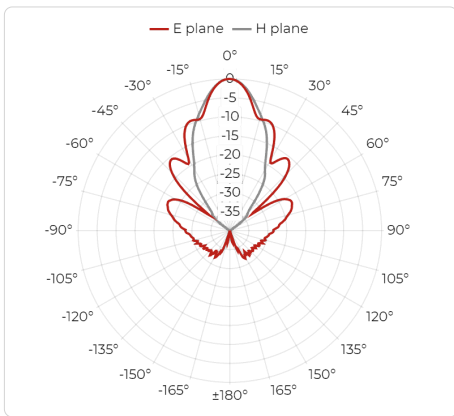
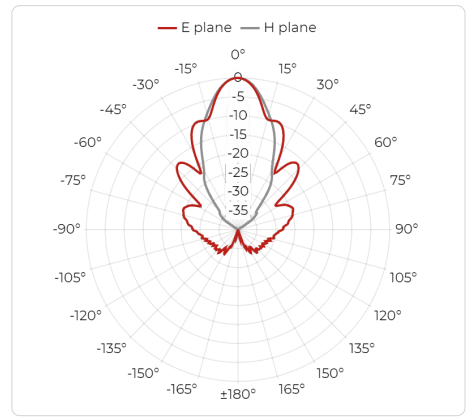
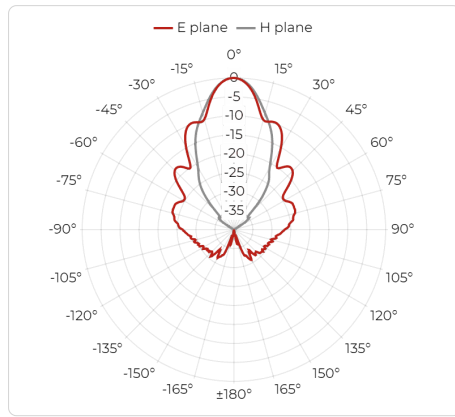
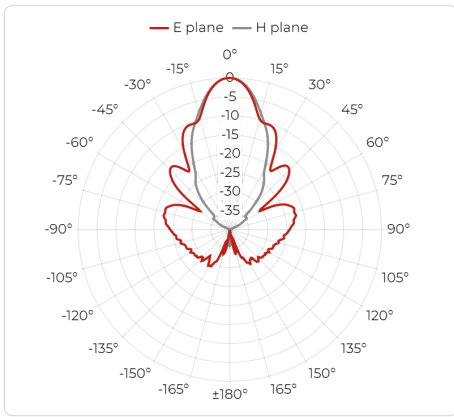
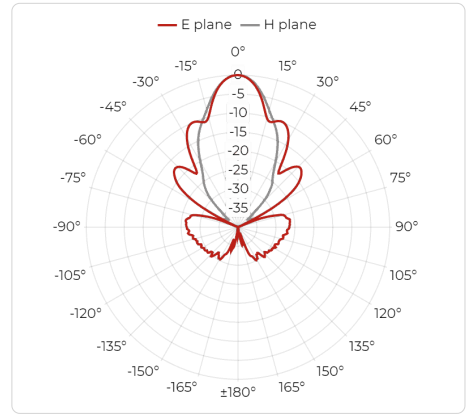
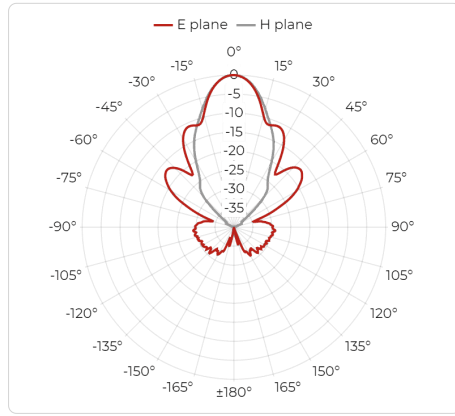
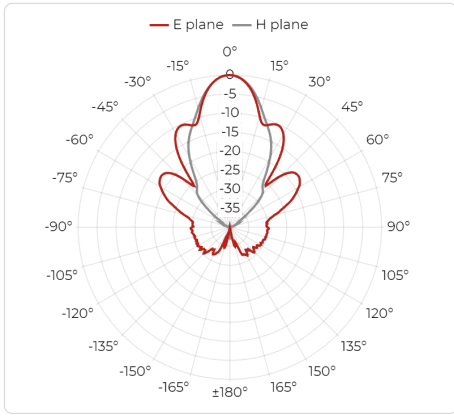
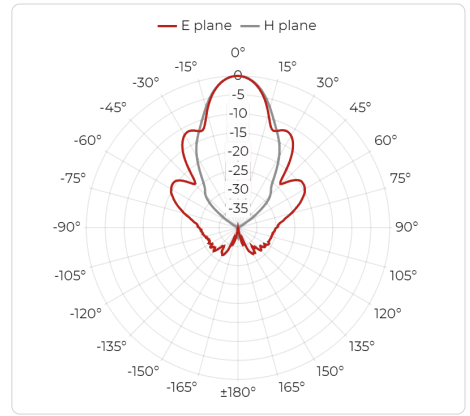
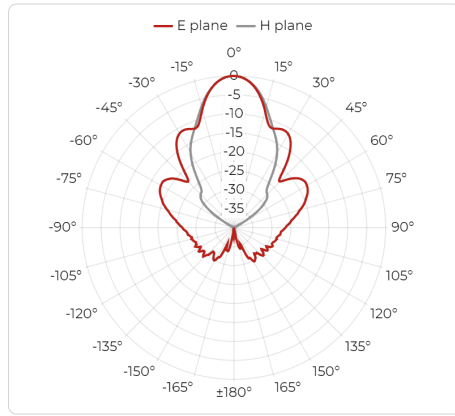
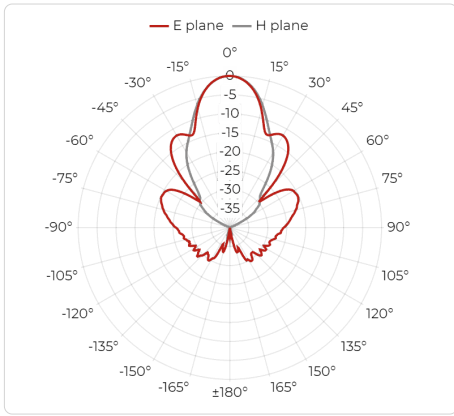
Port A, E plane



Port A, H plane



# Radiation Patterns



## Packaging and Accessories

### What's in a box

- H-A33 Antenna
- Antenna specific mount adapter with  $\frac{1}{4}$  inch inner thread
- Factory calibration certificate
- Full calibration report of each antenna
- QR code accessing online portal
- Calibration test dataset (available online)



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-a33/>  
*Data and specifications subject to change without notice.*  
*Datasheet revision 07-2021.*

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