



The addition of two-spirit levels is a matter of course, thanks to which your measurement in both planes will be very accurate and fun.

Cloned antenna series are available through [AU Technology](#), which guarantees constant parameters.

Manufactured with RF SPIN's [SPM Technology](#) to achieve the best mechanical and radio parameters.



See the equivalent outdoor antenna [QRH11R](#)

## Features and Specifications



### Technical Performance

- Wide bandwidth
- Low return loss
- Individual calibration
- Suitable for EMC/EMI applications



### Design and Surface Treatment

- Corrosion-resistant coating
- Includes standard mount
- Very precise spirit level for both polarizations



### Manufacturing Technology

- Manufactured using a high grade aluminum alloy
- Extremely durable
- High quality SMA type coaxial connector



### Product Packaging Includes

- Adapter with 1/4 inch inner thread, supplied with antenna
- Linear polarized double ridged broadband horn antenna

## Product Parameters

### PRODUCT IDENTIFICATION

Product Name	<b>QRH11</b>
Product Category	<b>Quad Ridged Horn Antenna</b>

### ELECTRICAL SPECIFICATIONS

Frequency Range	<b>730 MHz – 11 GHz</b>
VSWR (max.)	<b>2.4</b>
VSWR (avg.)	<b>1.4</b>
Impedance	<b>50 Ohm</b>
Connector	<b>SMA (female)</b>
Power (CW / Peak)	<b>100 W / 170 W</b>
Antenna Factor	<b>23 – 38 dB/m</b>
Port Isolation	<b>-32 dB</b>
Polarization	<b>Dual Linear, Circular (with hybrid)</b>

### PHYSICAL SPECIFICATIONS

Width	<b>180 mm (7.087 in)</b>
Height	<b>240 mm (9.449 in)</b>
Depth	<b>180 mm (7.087 in)</b>
Weight	<b>1.03 kg (2.271 lb)</b>

### OPERATING CONDITIONS

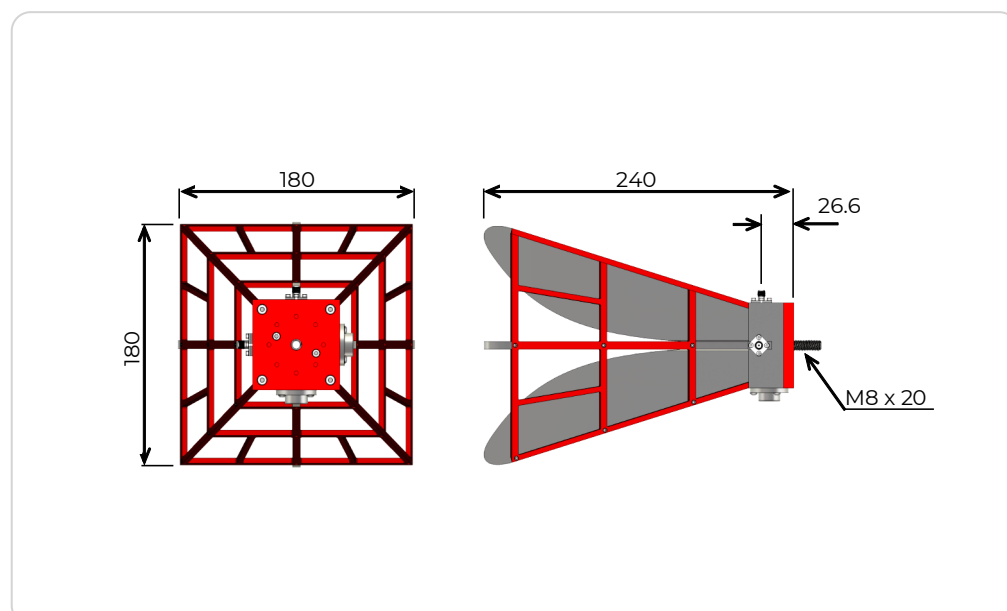
Rated Temperature Range	<b>0°C – +50°C</b>
Storage Temperature Range	<b>-20°C – +70°C</b>

### MOUNTING FLANGE

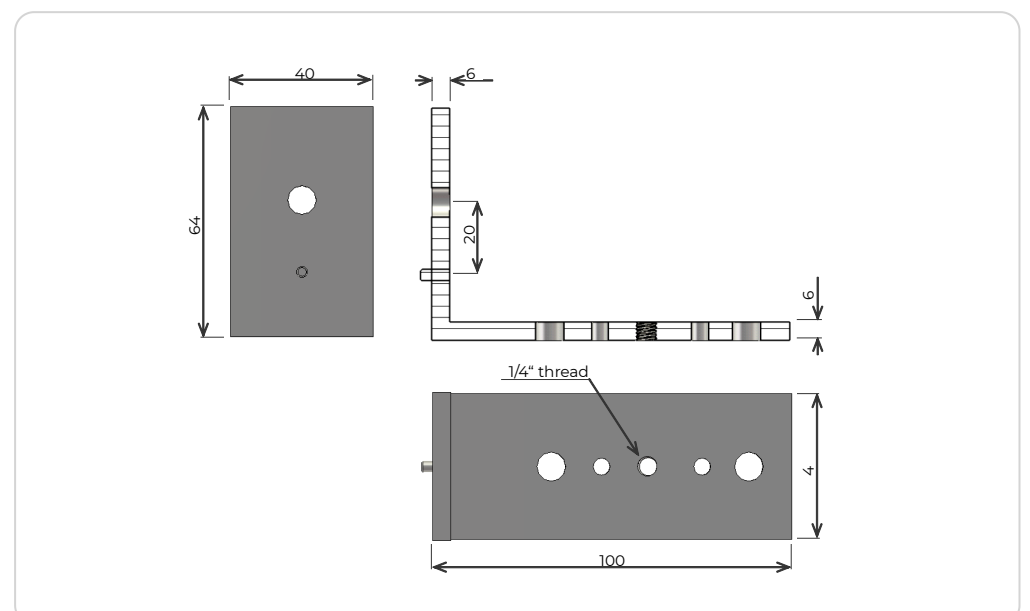
Mounting	<b>Adapter with 1/4 inch inner thread, supplied with antenna</b>
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## Mechanical Drawings

Antenna



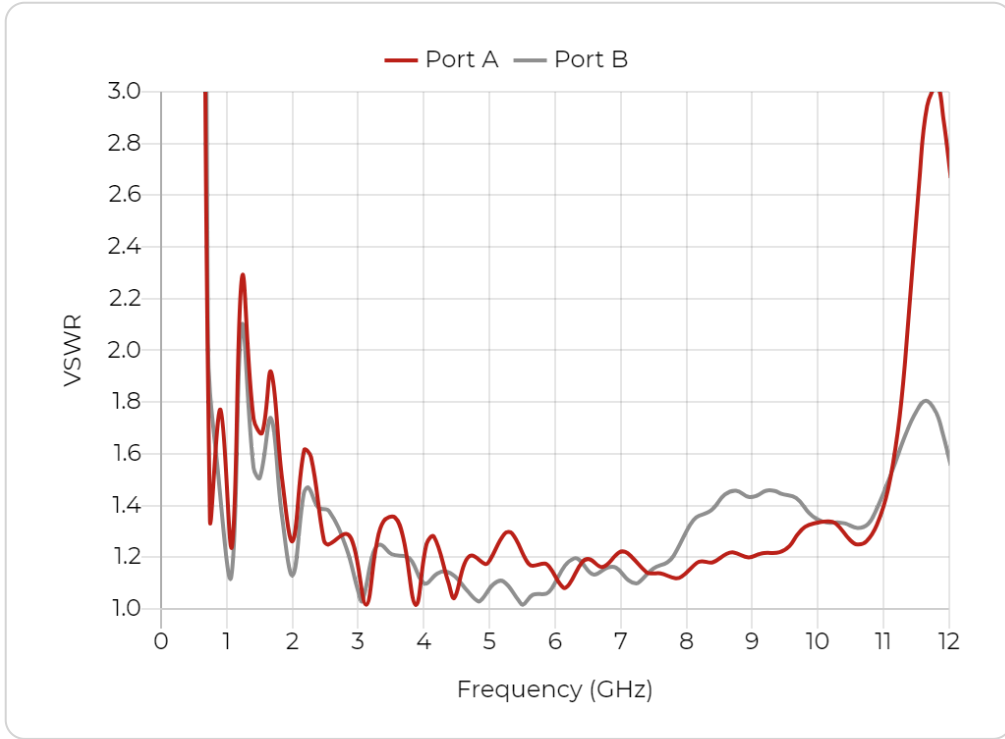
Mounting flange



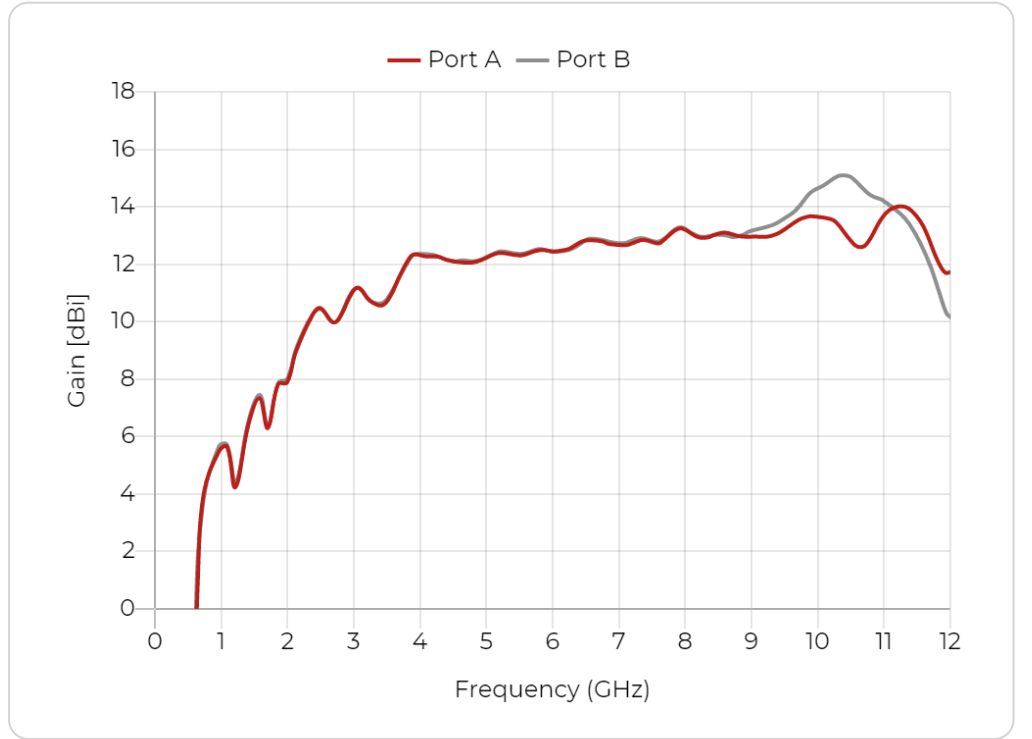
# Parameters and Performance

## Typical parameters

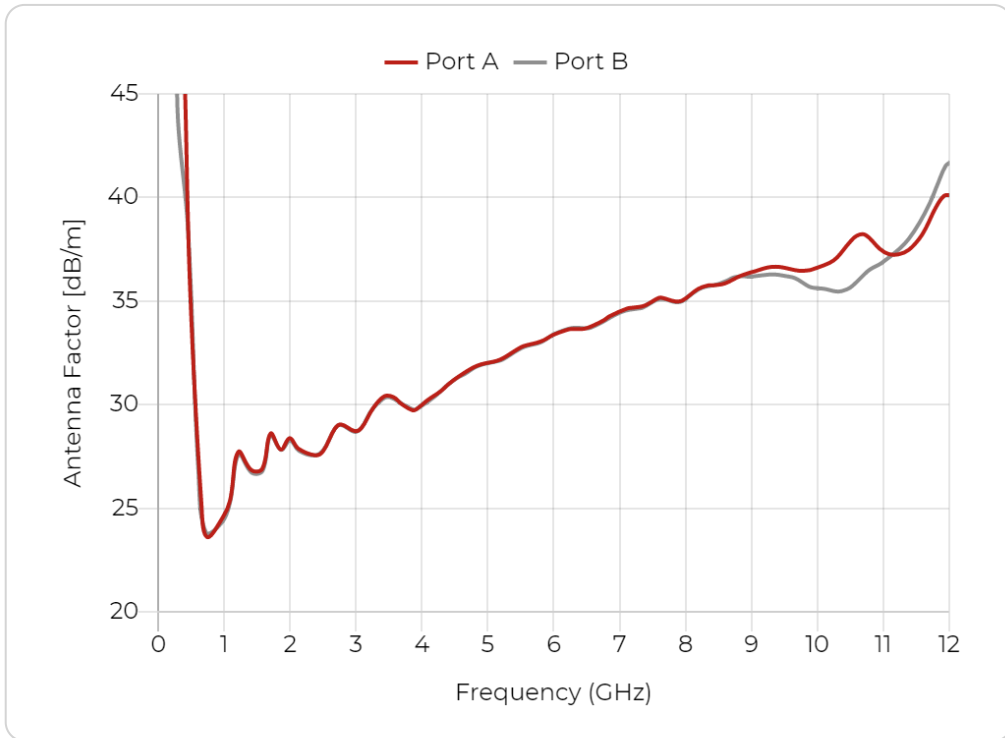
VSWR



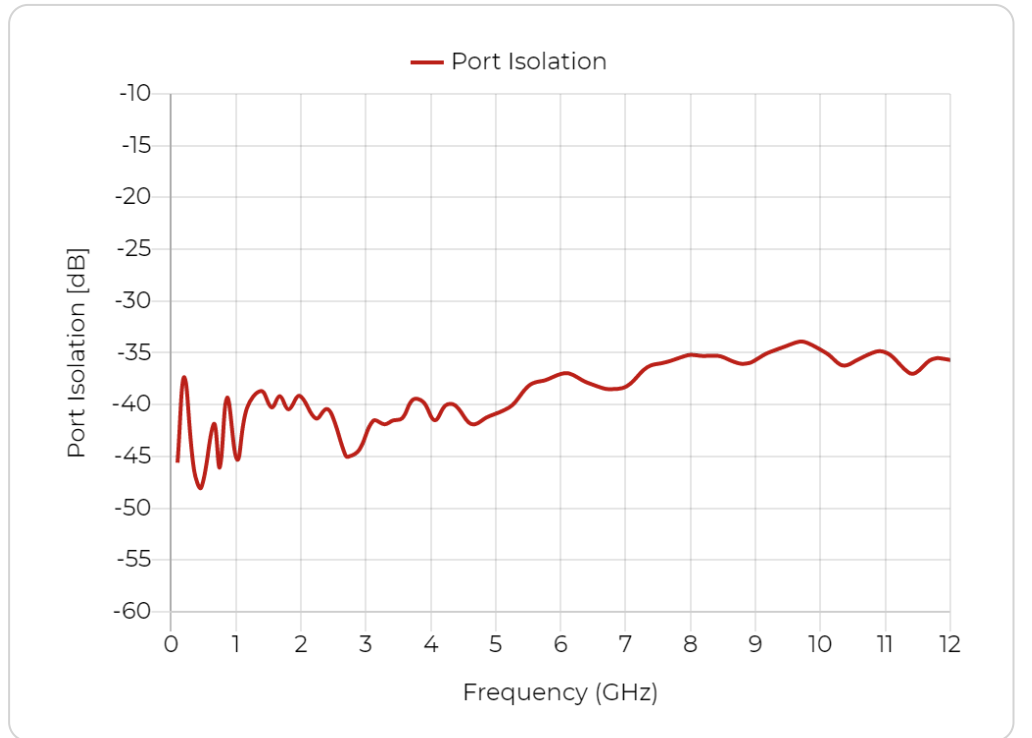
Gain



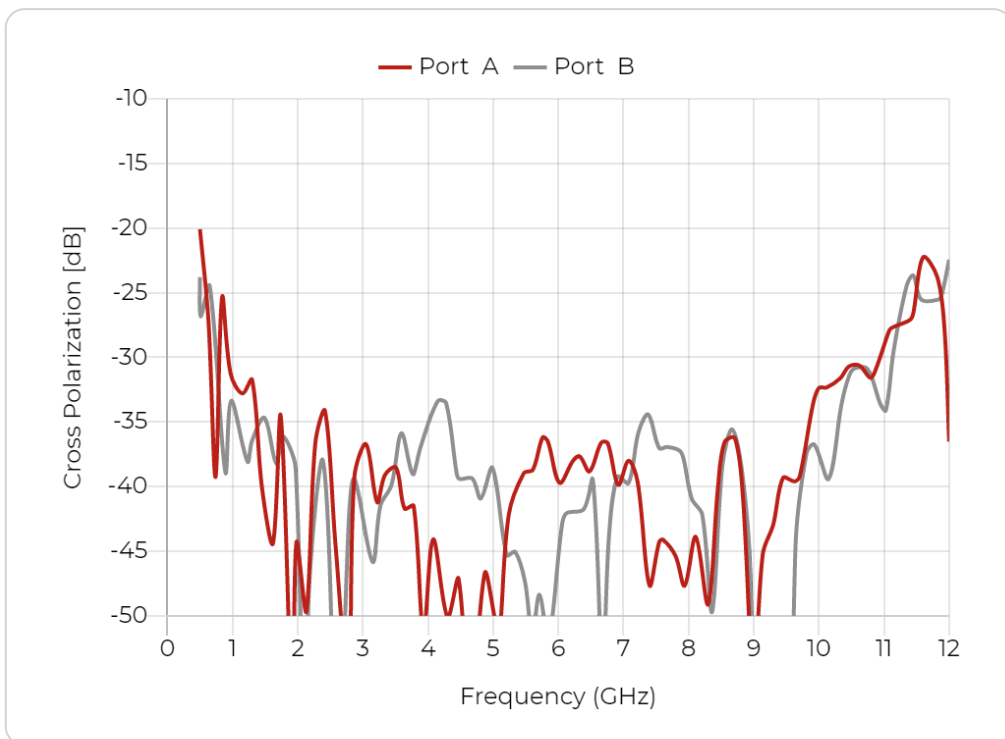
Antenna Factor



Port Isolation

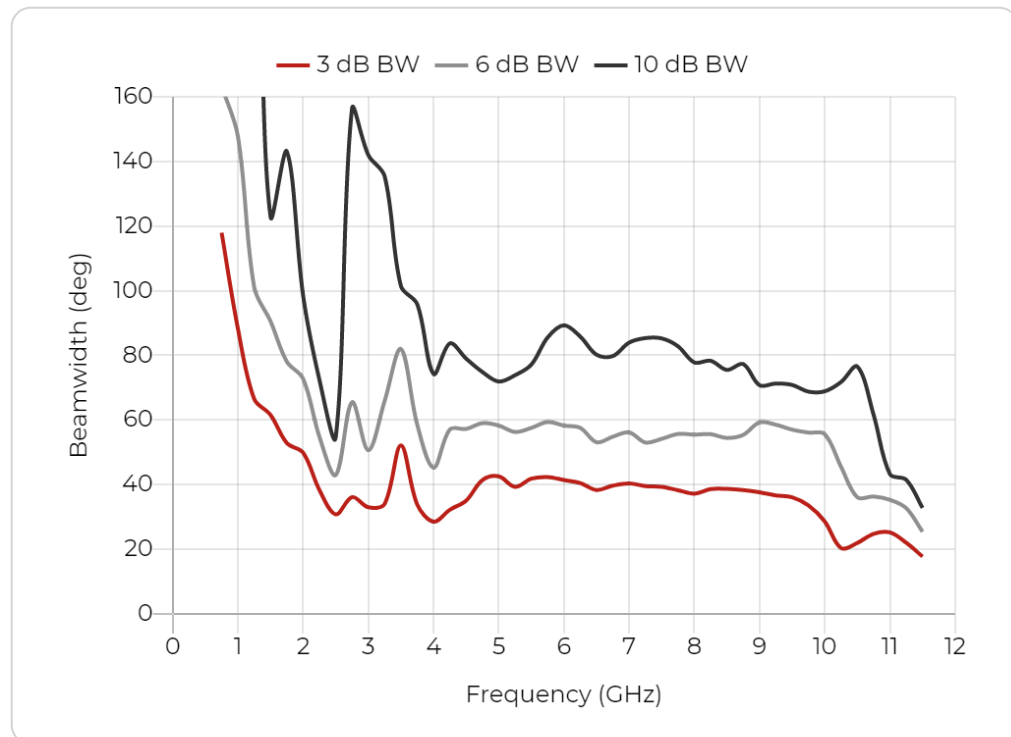


Cross Polarization

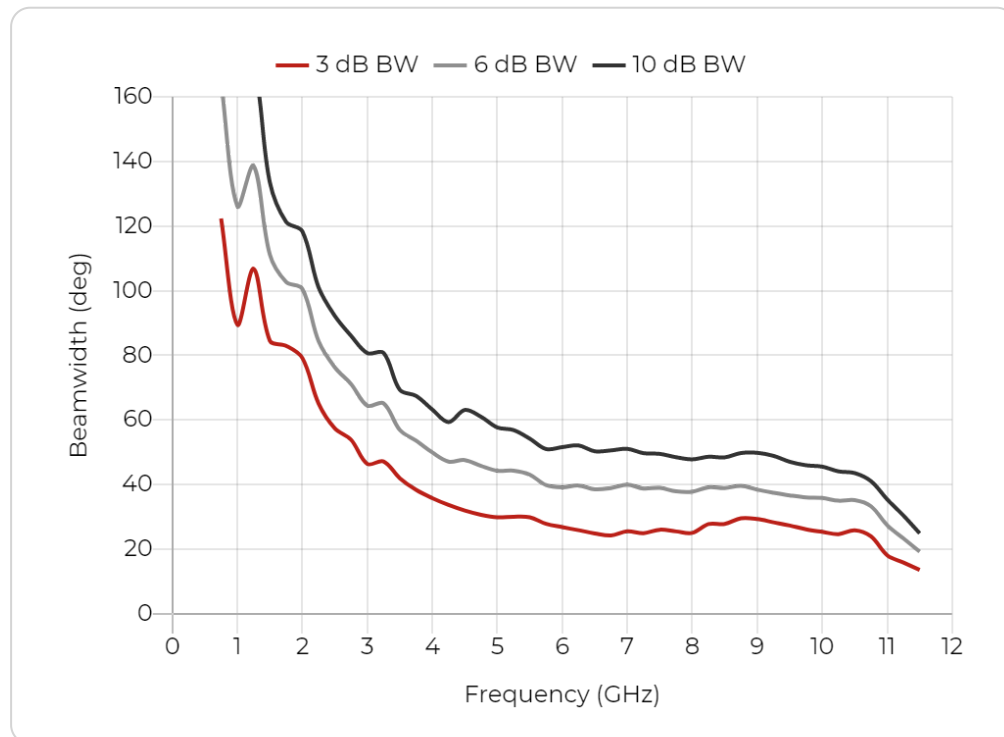


# Beamwidth

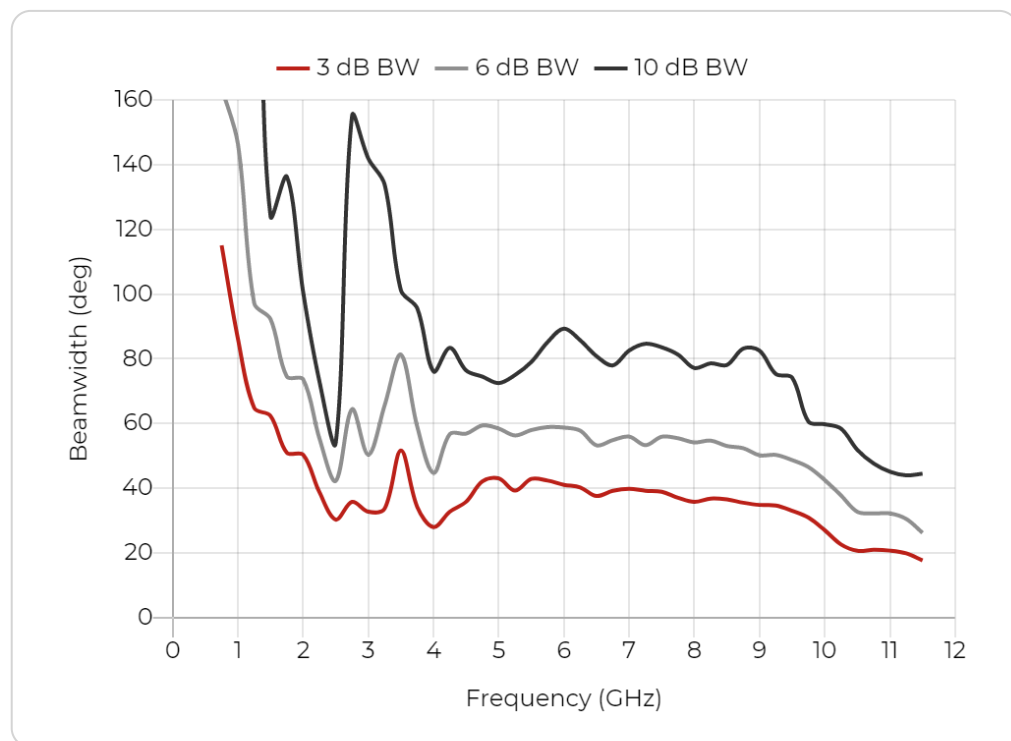
Port A, E plane



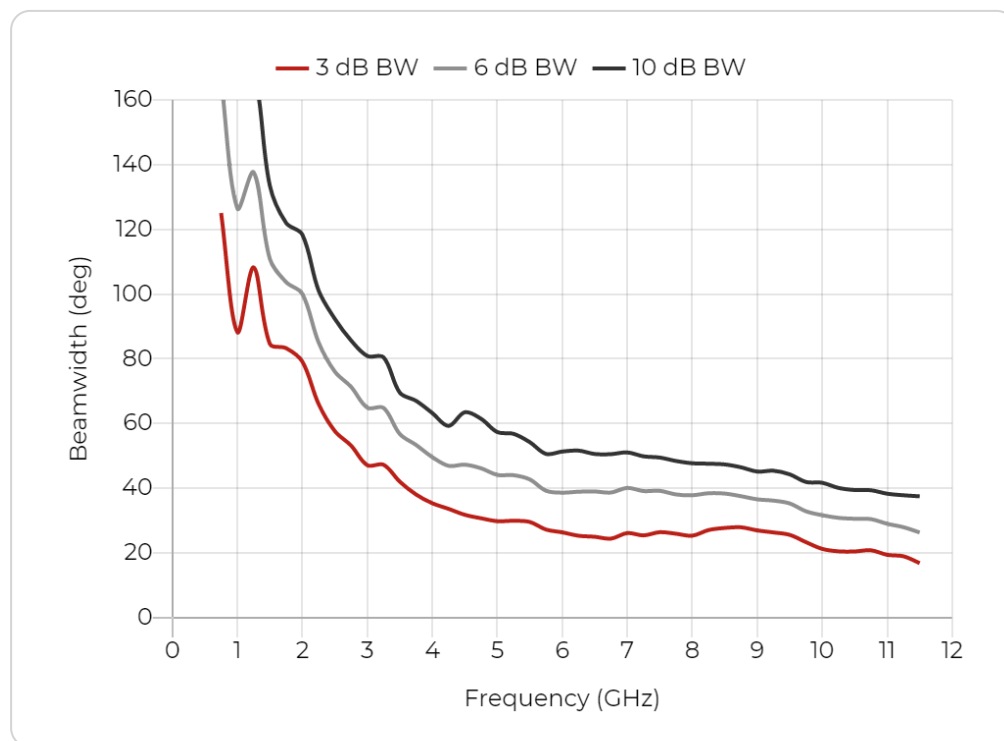
Port A, H plane



Port B, E plane

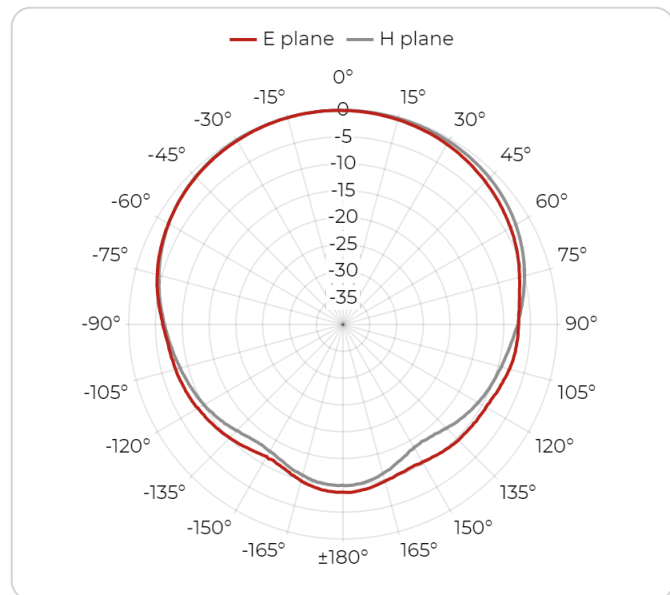


Port B, H plane

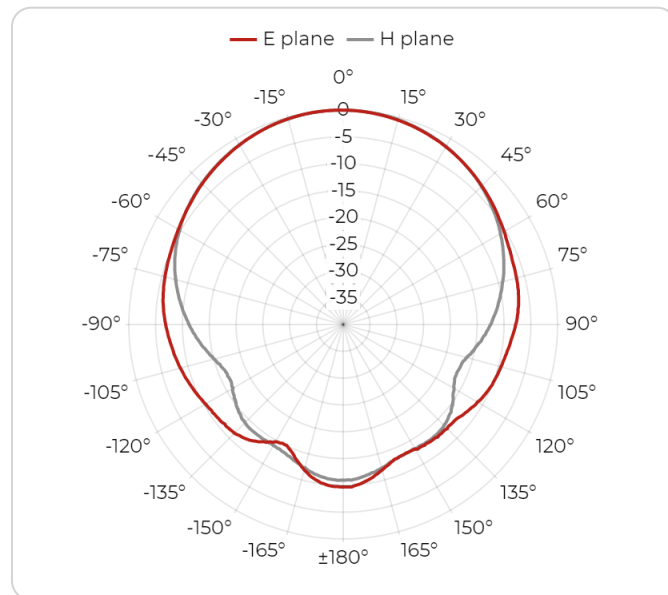


# Radiation Patterns - Port A

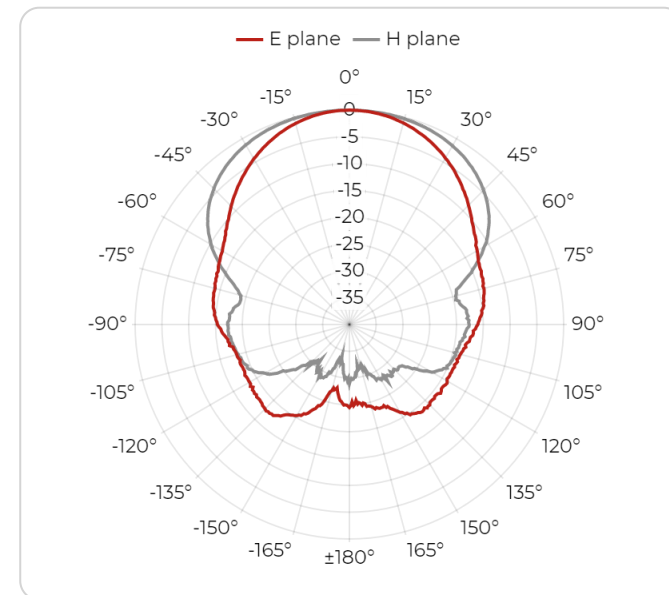
Port A, 0.75 GHz



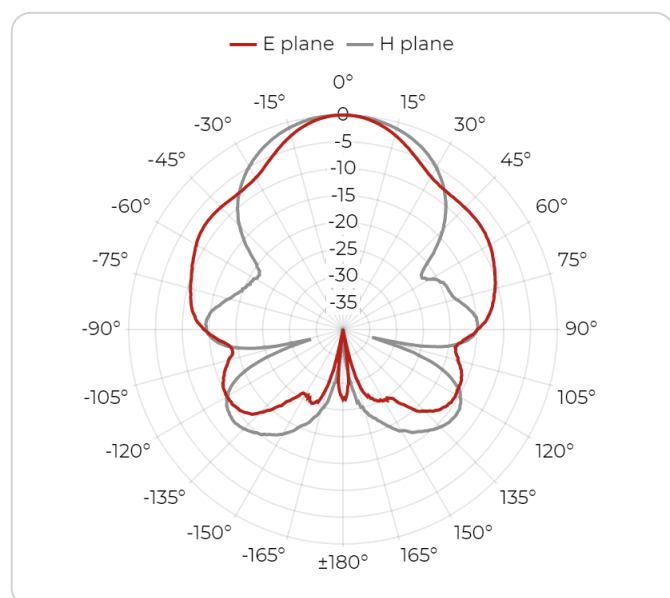
Port A, 1 GHz



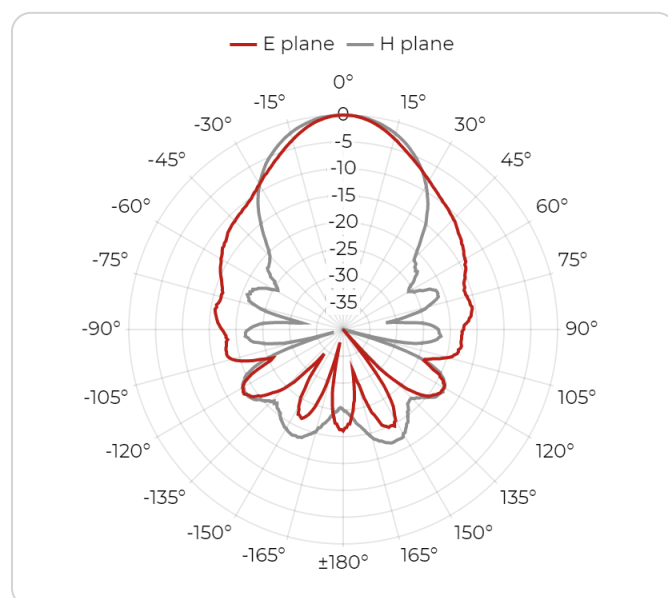
Port A, 2 GHz



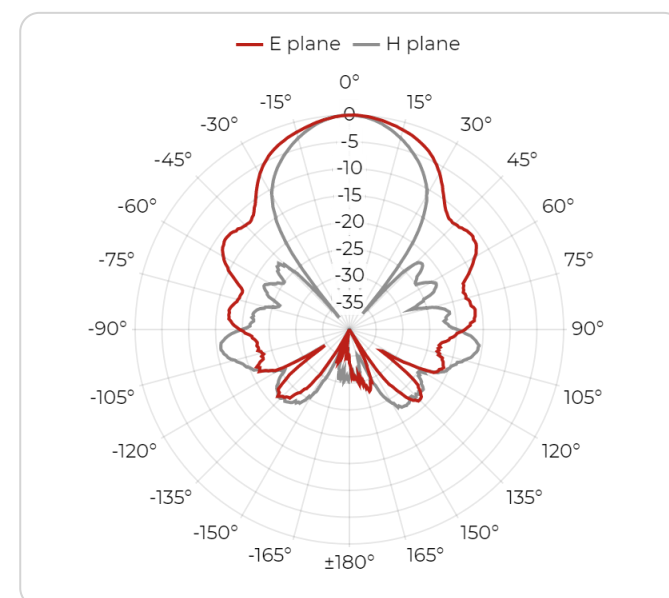
Port A, 3 GHz



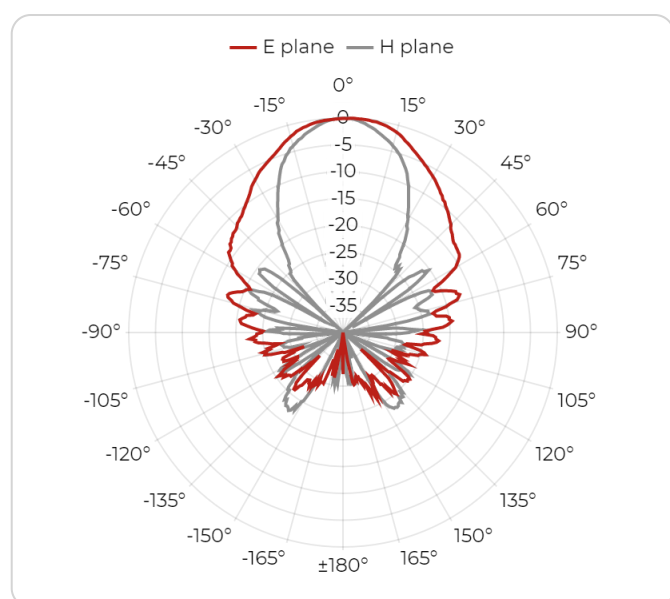
Port A, 4 GHz



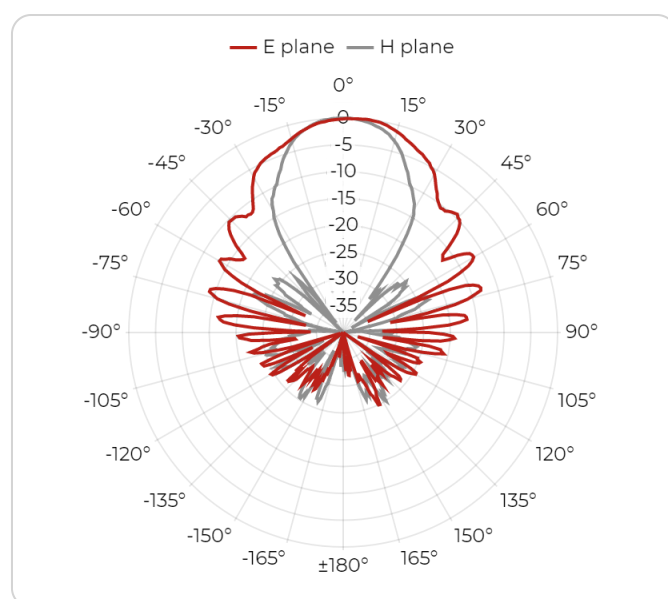
Port A, 5 GHz



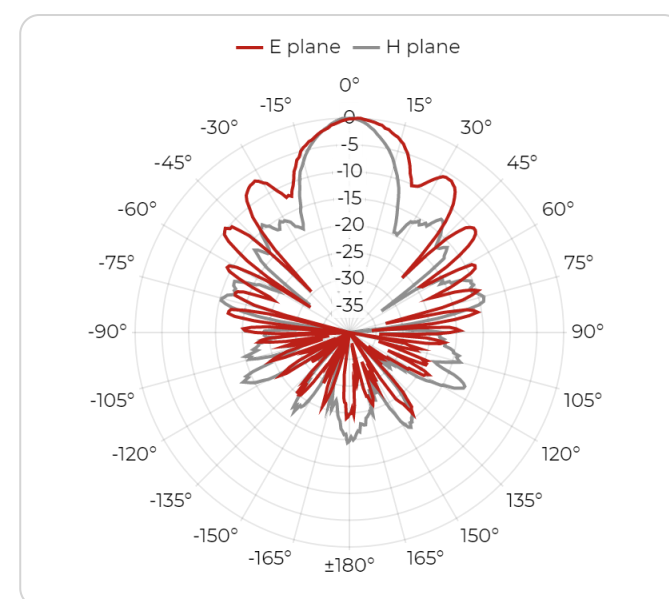
Port A, 8 GHz



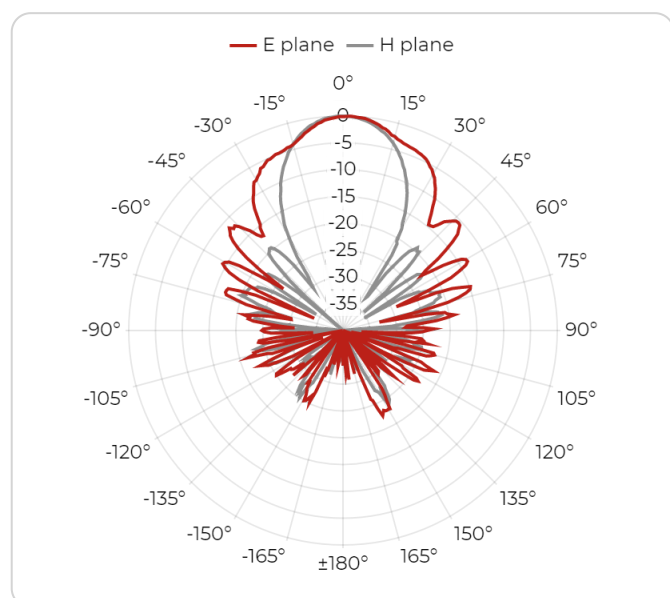
Port A, 9 GHz



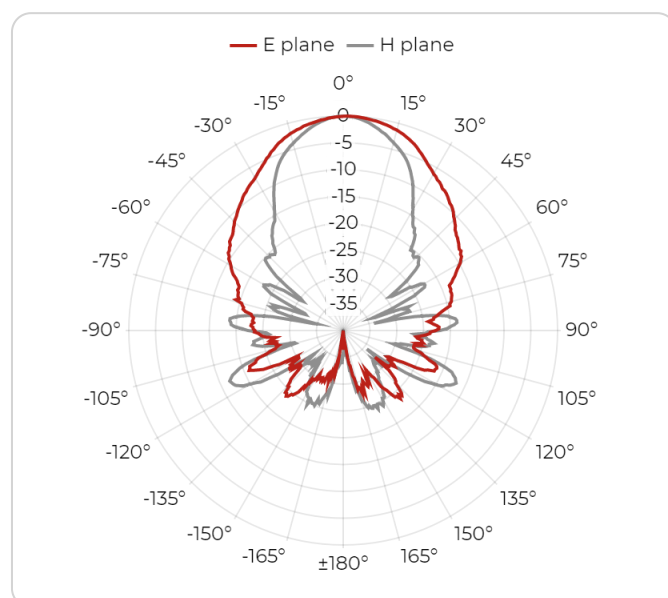
Port A, 11 GHz



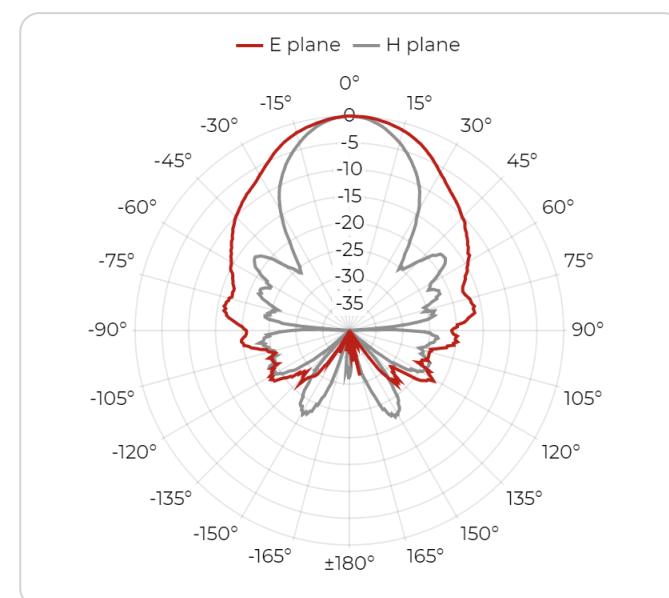
Port A, 10 GHz



Port A, 7 GHz



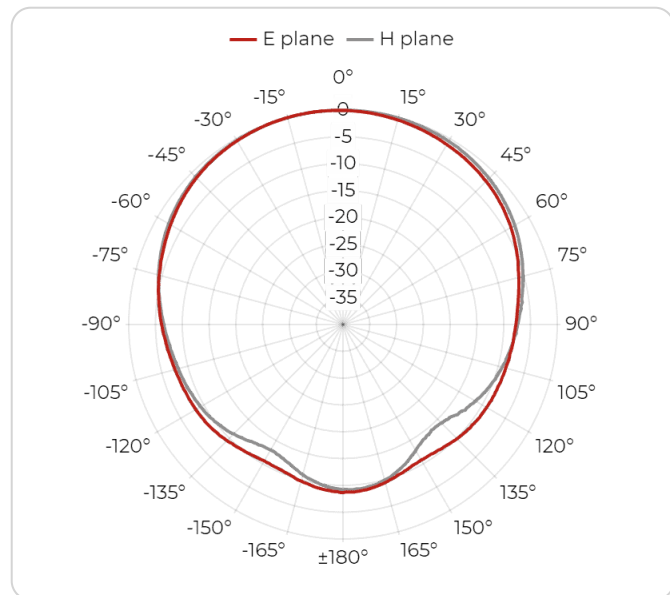
Port A, 6 GHz



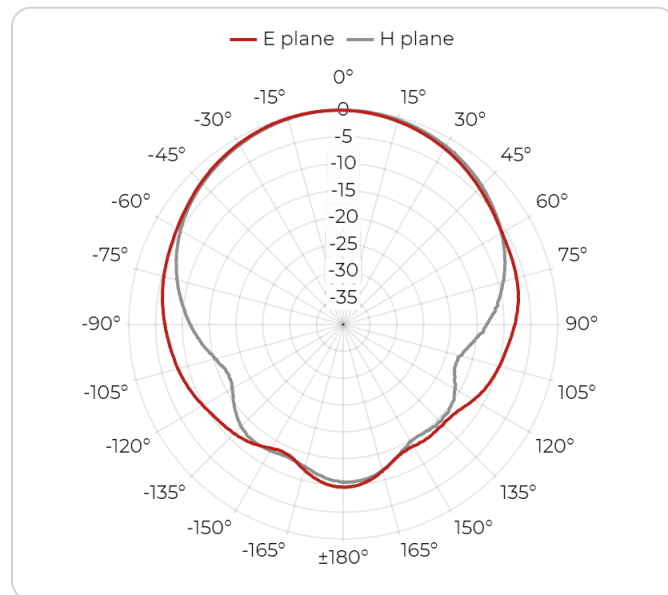


# Radiation Patterns - Port B

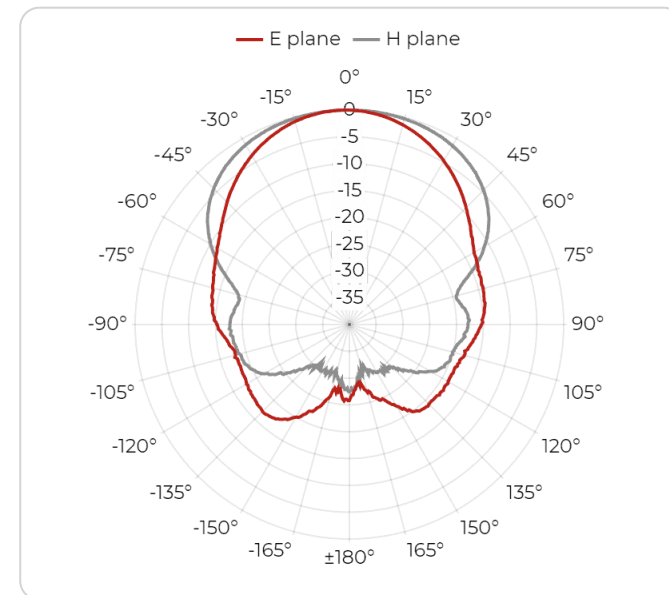
Port B, 0.75 GHz



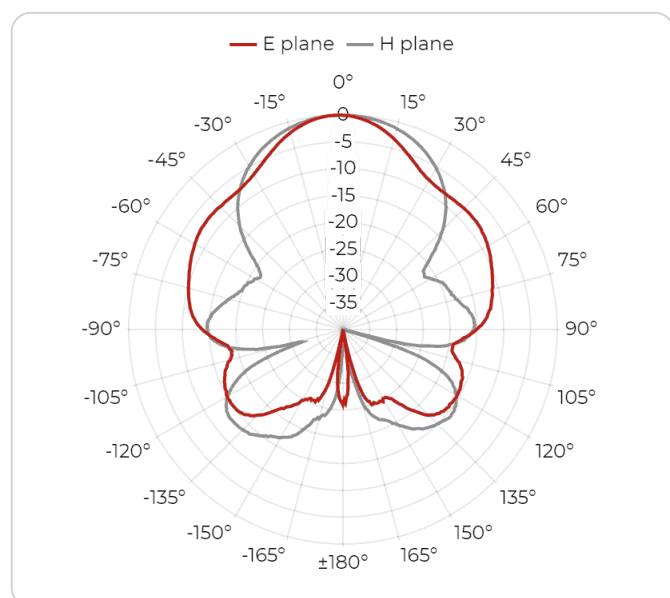
Port B, 1 GHz



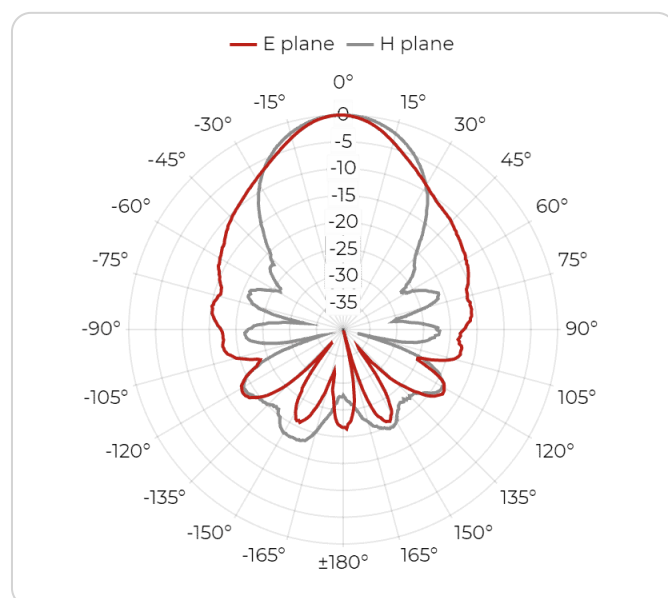
Port B, 2 GHz



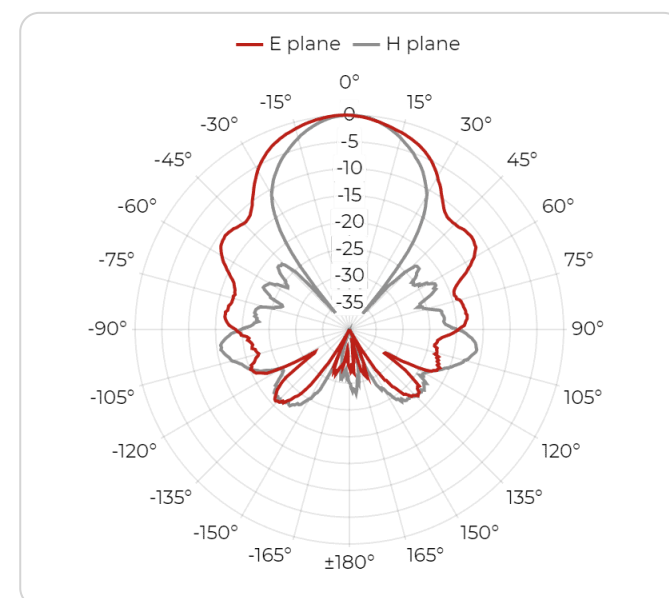
Port B, 3 GHz



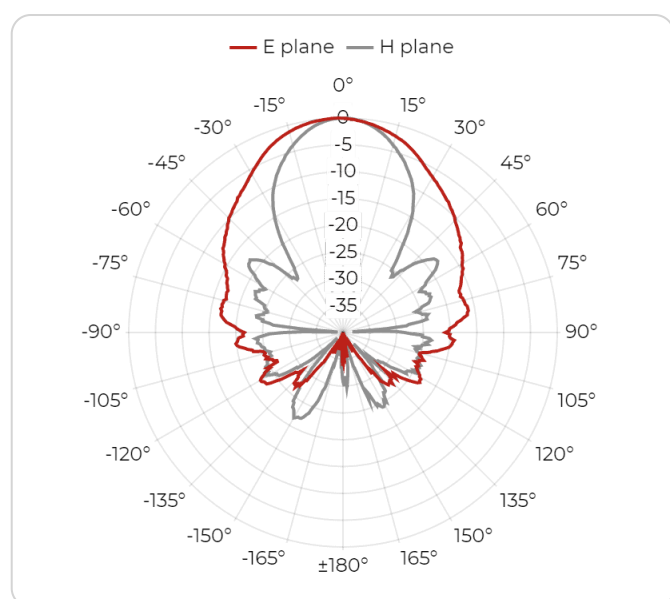
Port B, 4 GHz



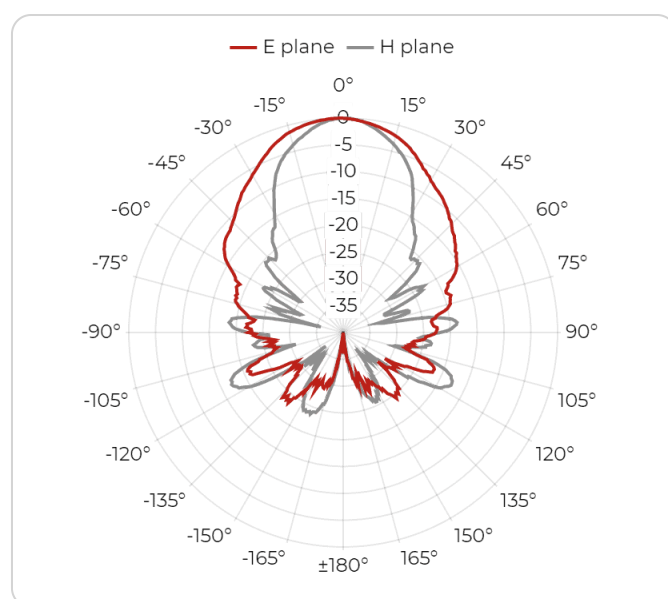
Port B, 5 GHz



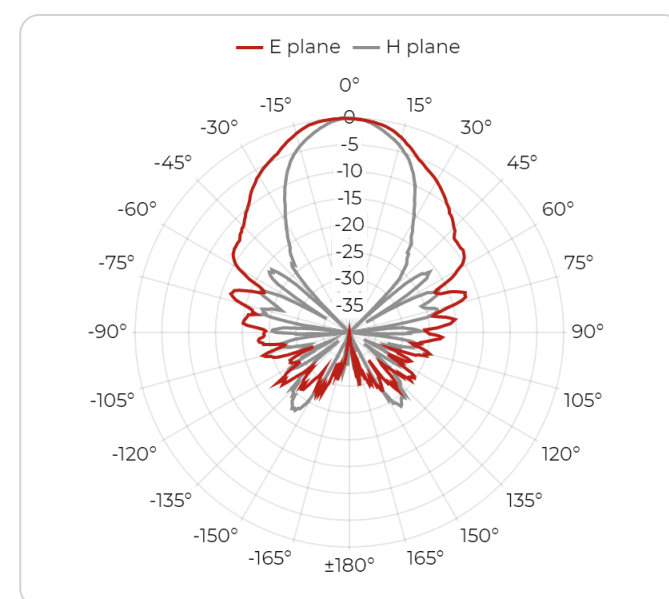
Port B, 6 GHz



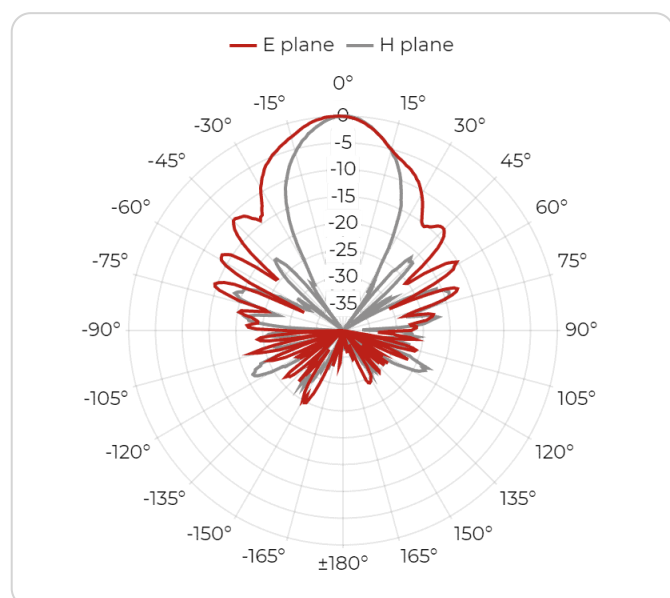
Port B, 7 GHz



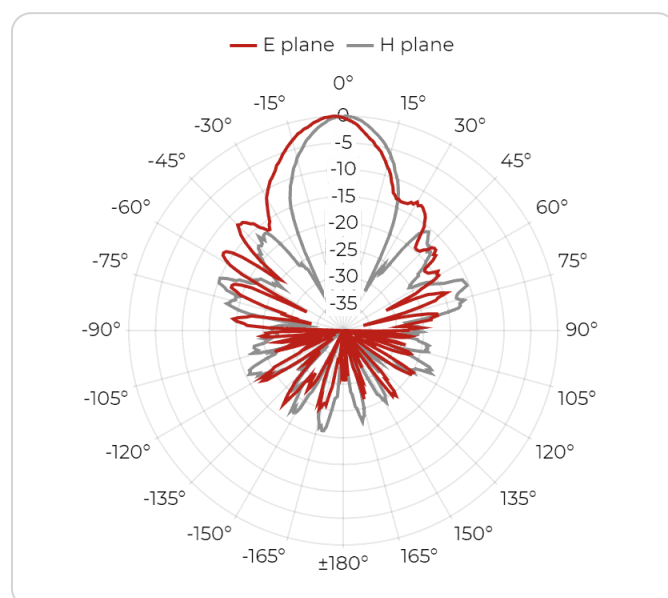
Port B, 8 GHz



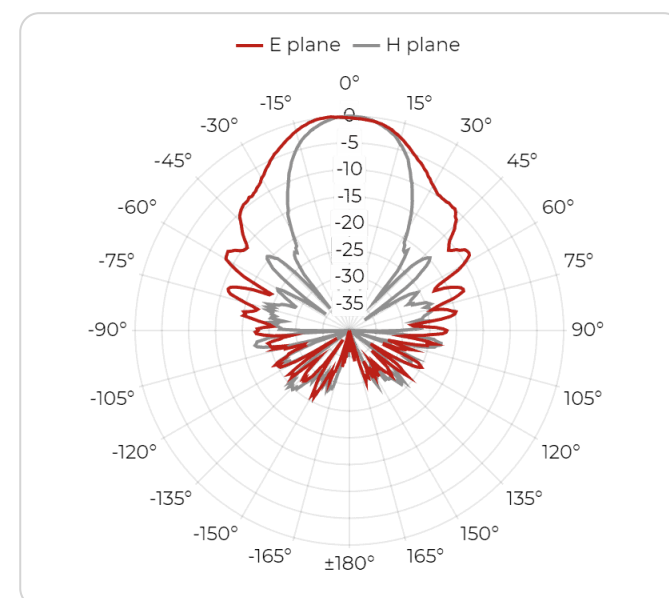
Port B, 10 GHz



Port B, 11 GHz



Port B, 9 GHz



## Packaging and Accessories

### What's in a box

- QRH11 Antenna
- Antenna specific mount adapter with ¼ inch inner thread
- Factory calibration certificate
- Full calibration report of each antenna
- QR code accessing online portal
- Calibration test dataset (available online)

### Accessories

- Standard mounting flange

### Optional Accessories

- [AHS22-10 Antenna Fixture](#)
- [PAS02 Antenna Stand](#)

### Custom services

- Custom mounting solutions
- Custom calibration data
- Radome waterproof enclosure

## Manufacturer Information

### About Datasheet

Product information available also online at  
<https://www.rfspin.com/product/grh11/>

*Data and specifications subject to change without notice.*

*Datasheet revision 02-2024.*

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### 📍 Address

RFspin s.r.o.  
Na Beránce 57/2  
160 00 Prague 6  
Czech Republic

### ✉ E-mail

[info@rfspin.com](mailto:info@rfspin.com)

### 📞 Phone

[+420 245 008 847](tel:+420245008847)