



The most demanded antenna QRH11 is equipped with a patented antenna lens that increases the Gain by 6dB. The maximum Gain is reaching 20 dB while keeping low weight and small size of the antenna. 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
- Covers 5G frequency band
- Suitable for EMC/EMI applications



Design and Surface Treatment

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



Manufacturing Technology

- High quality 2.92mm type coaxial connector



Product Packaging Includes

- Antenna with lens
- Universal antenna mount

Product Parameters

PRODUCT IDENTIFICATION

Product Name	QRH11C
Product Category	Quad Ridged Horn Antenna

ELECTRICAL SPECIFICATIONS

Frequency Range	730 MHz – 11 GHz
VSWR (max.)	2.8
VSWR (avg.)	1.4
Impedance	50 Ohm
Connector	SMA (female)
Power (CW / Peak)	100 W / 170 W
Antenna Factor	23 – 38 dB/m
Port Isolation	-32 dB
Polarization	Dual Linear, Circular (with hybrid)

PHYSICAL SPECIFICATIONS

Width	180 mm (7.087 in)
Height	281 mm (11.063 in)
Depth	180 mm (7.087 in)

OPERATING CONDITIONS

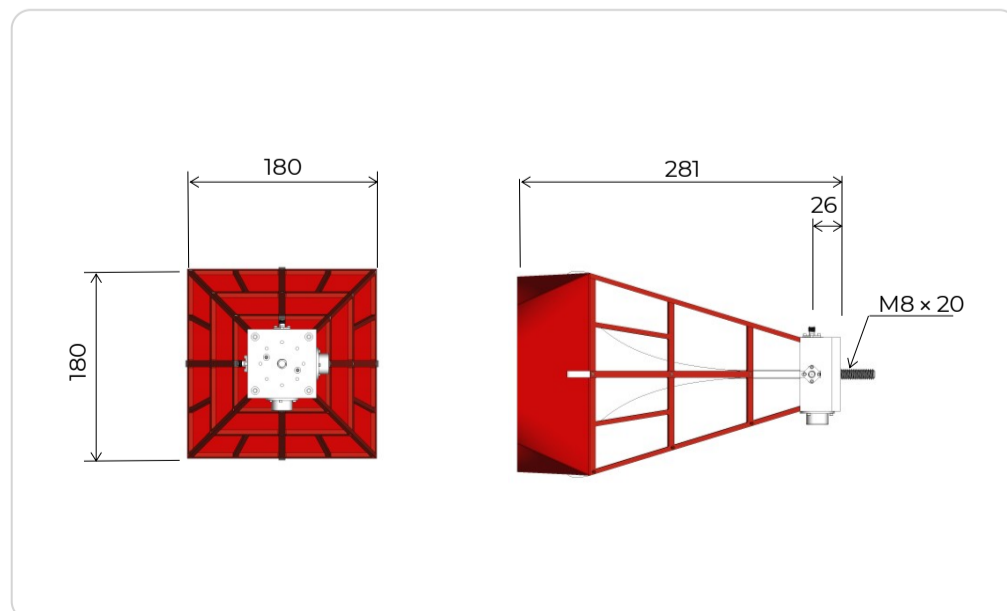
Rated Temperature Range	0°C – +50°C
Storage Temperature Range	-20°C – +70°C

MOUNTING FLANGE

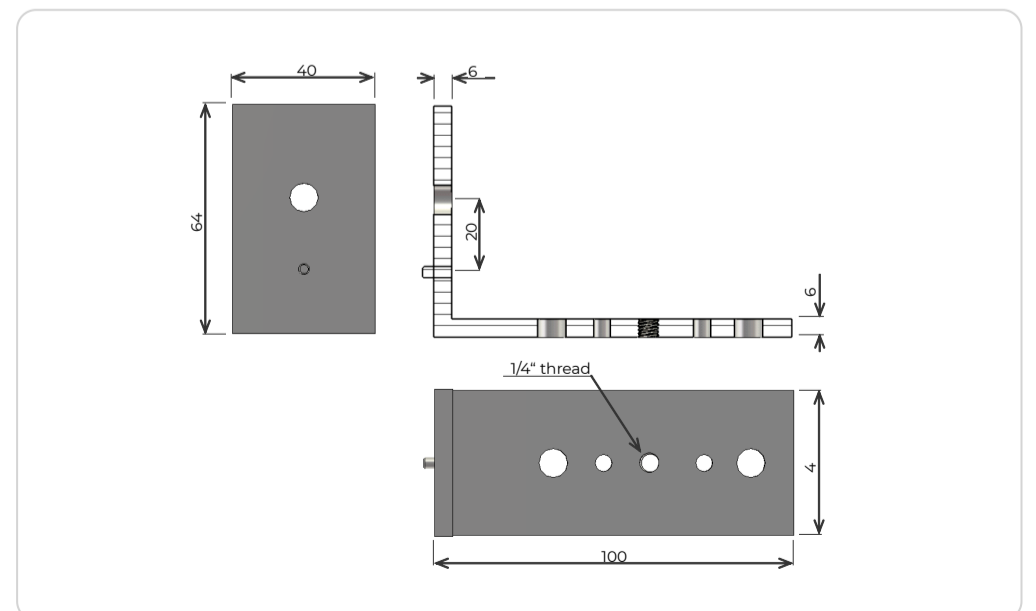
Mounting	Universal antenna mount
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Mechanical Drawings

Antenna



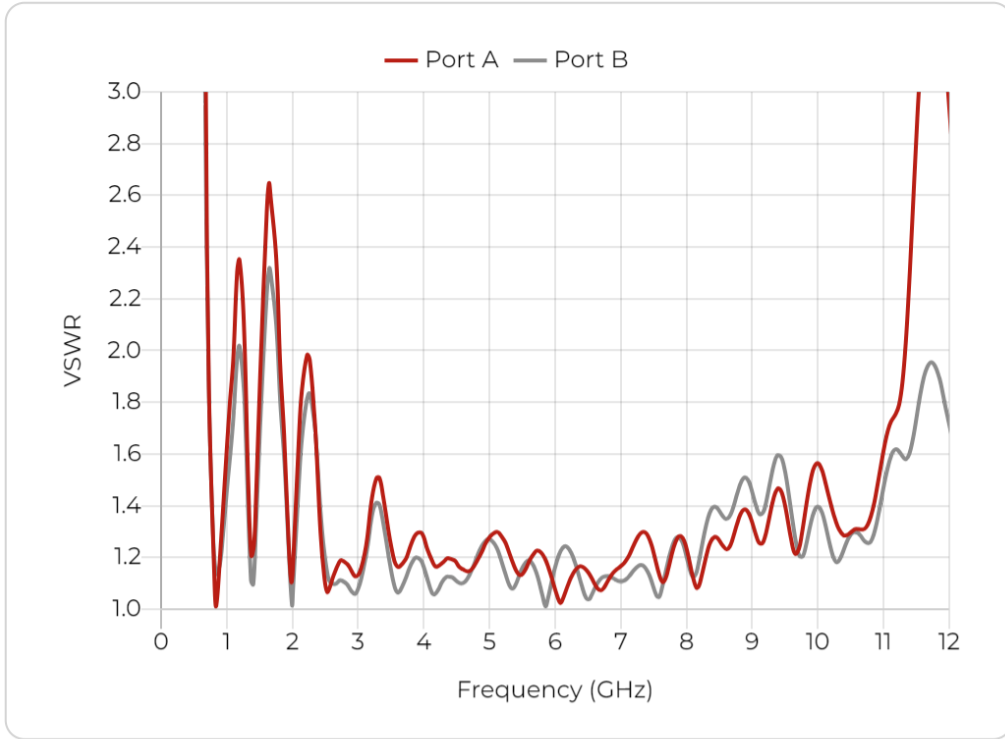
Mounting flange



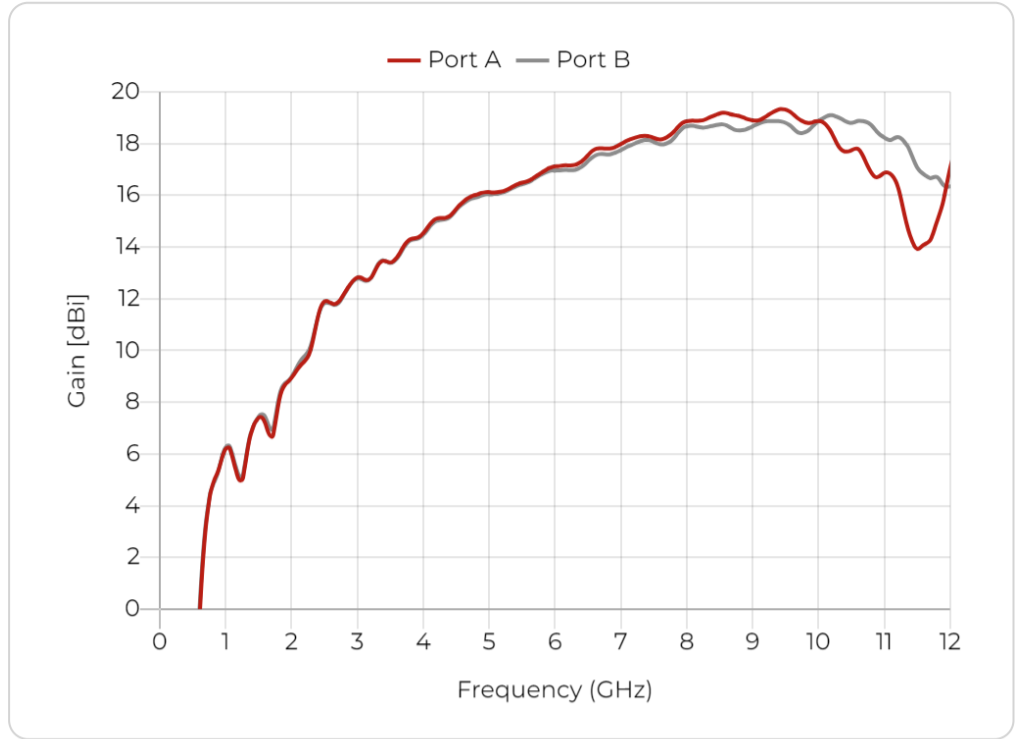
Parameters and Performance

Typical parameters

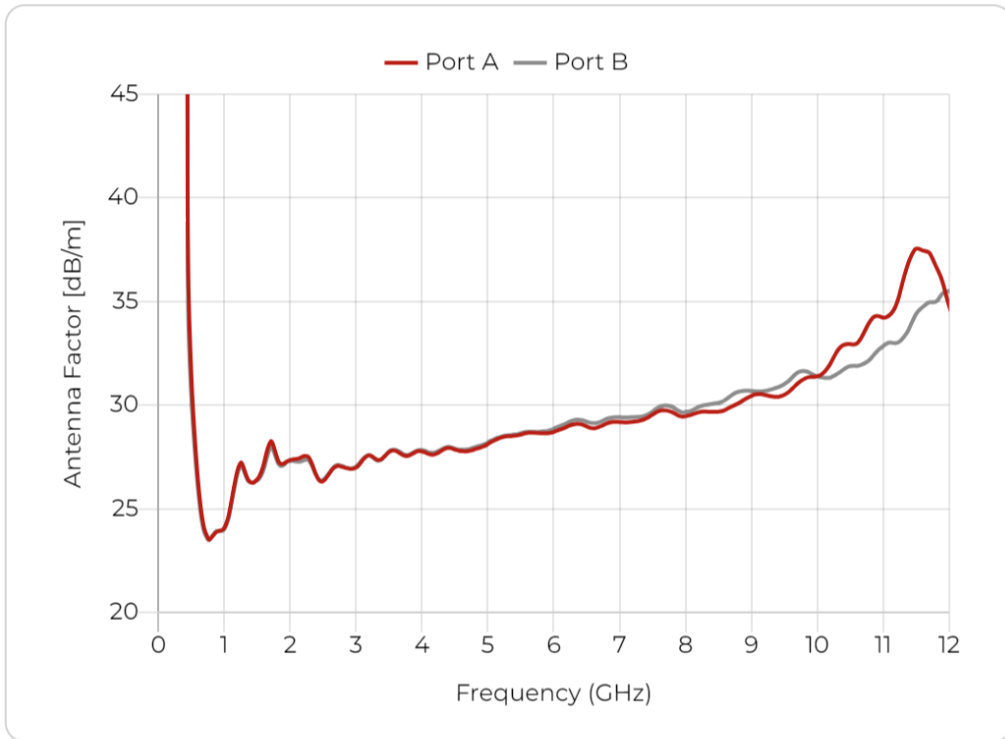
VSWR



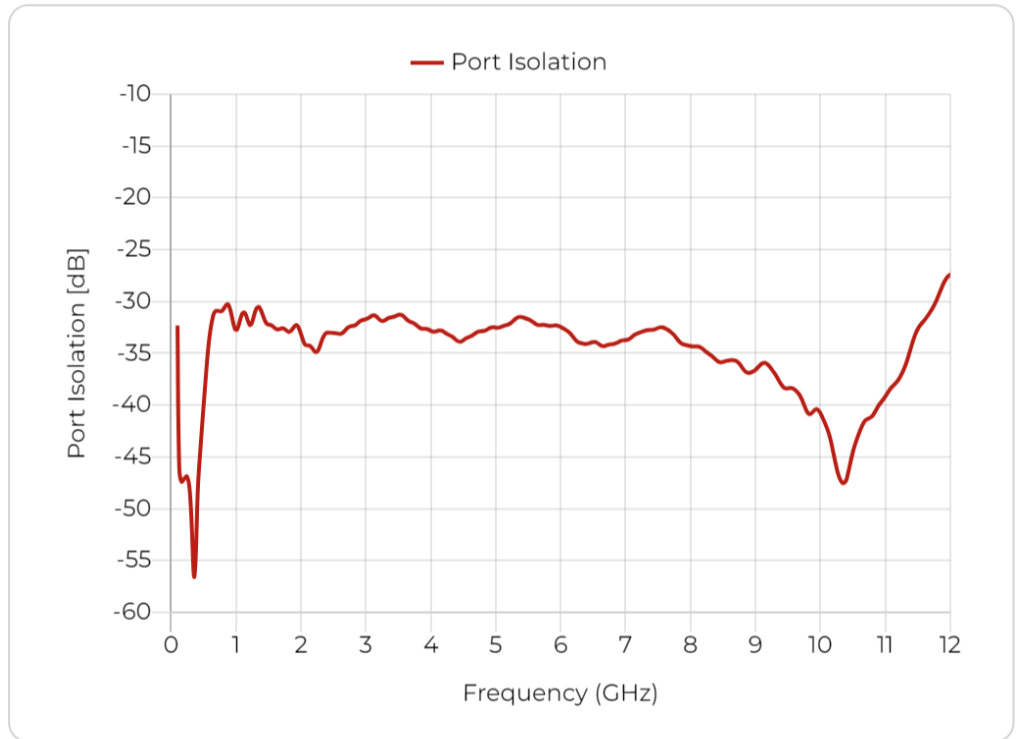
Gain



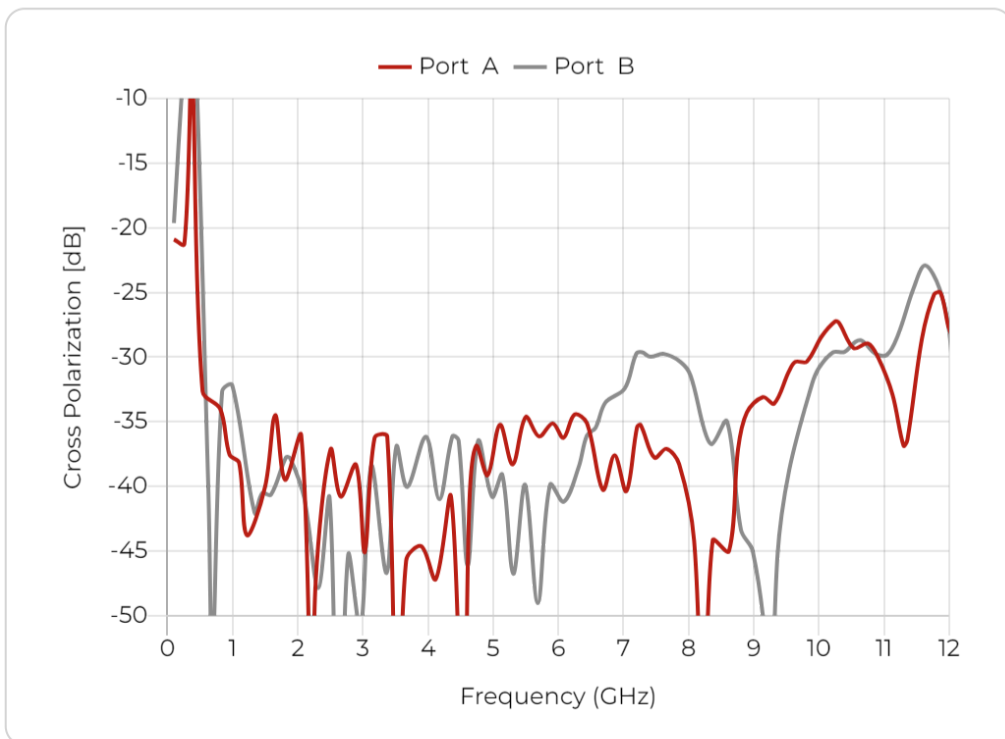
Antenna Factor



Port Isolation

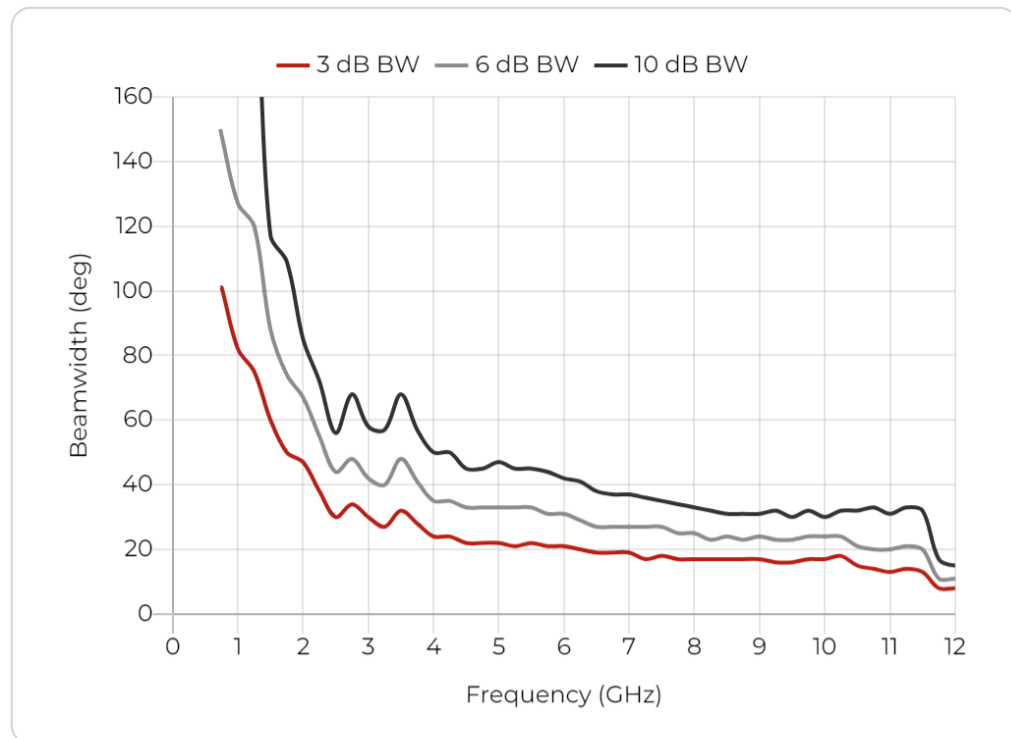


Cross Polarization

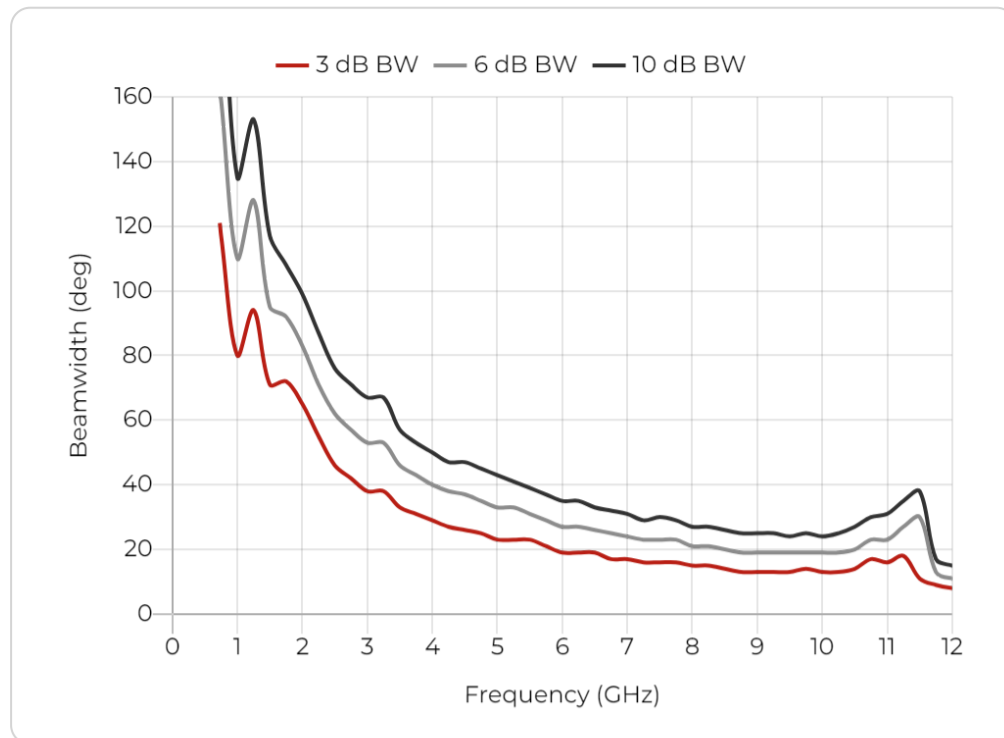


Beamwidth

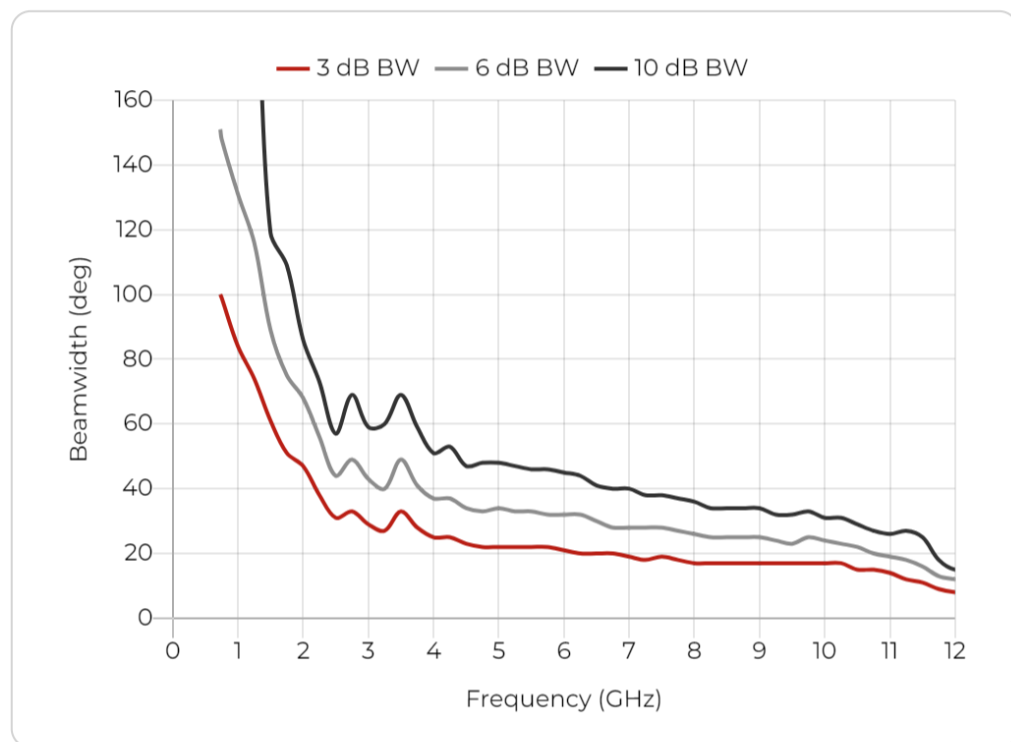
Port A, E plane



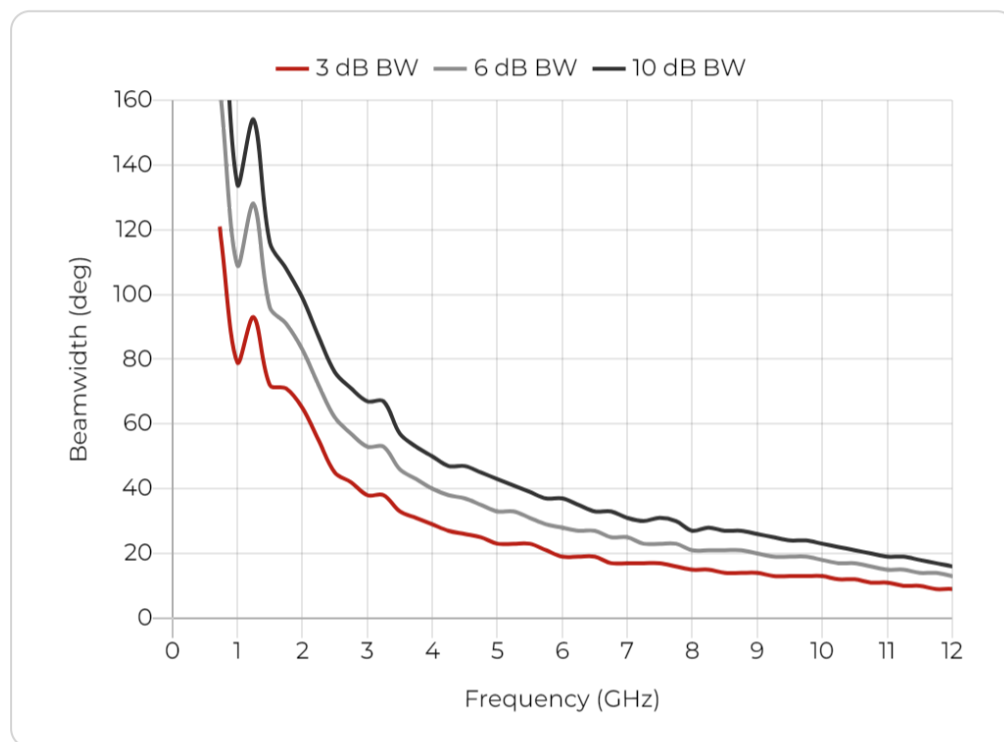
Port A, H plane



Port B, E plane

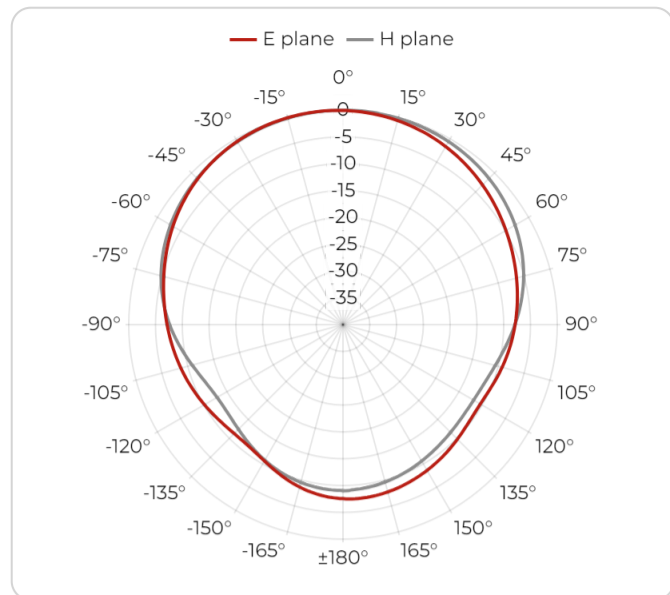


Port B, H plane

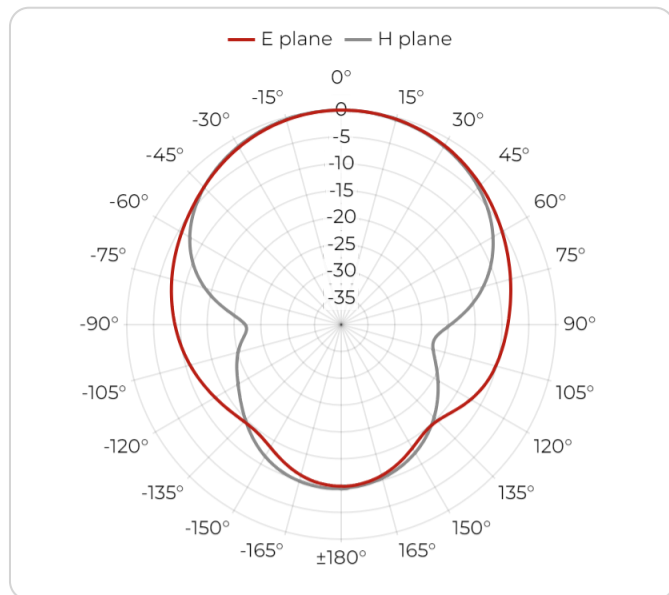


Radiation Patterns - Port A

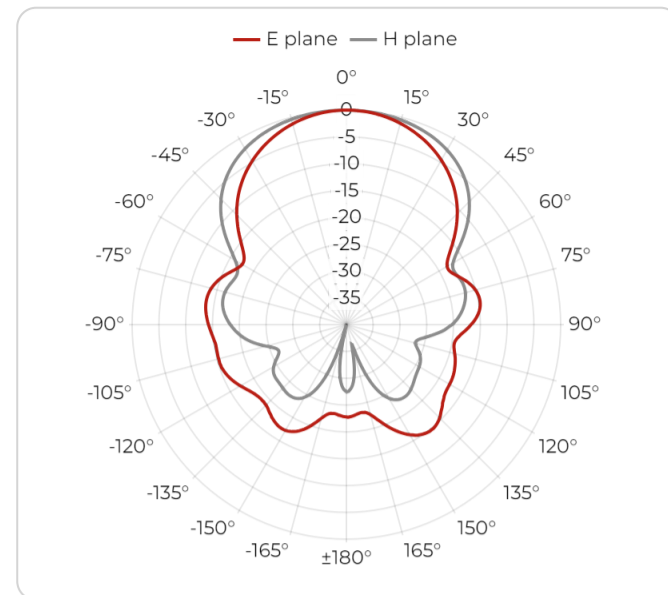
Port A, 0.73 GHz



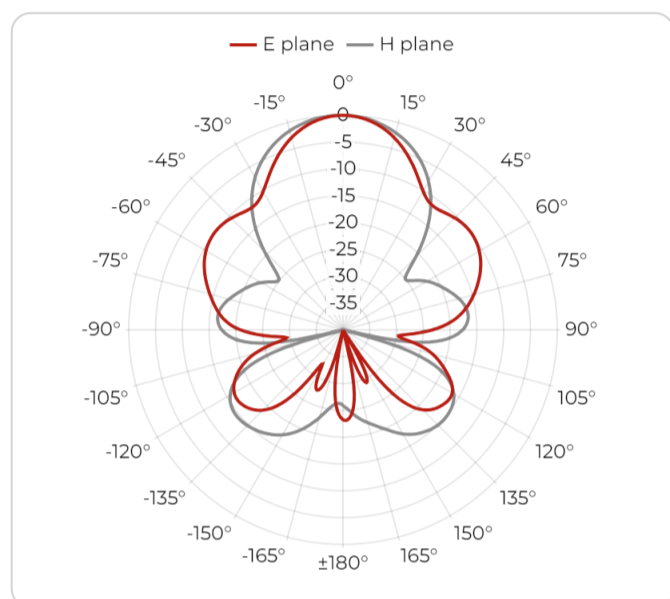
Port A, 1 GHz



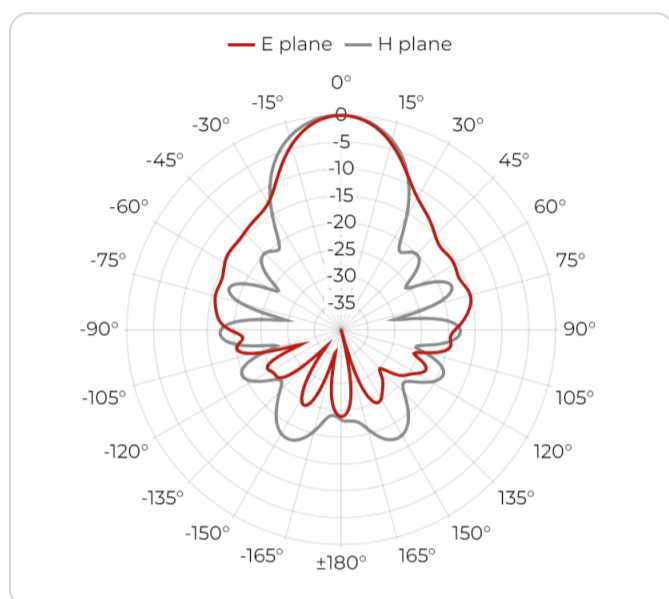
Port A, 2 GHz



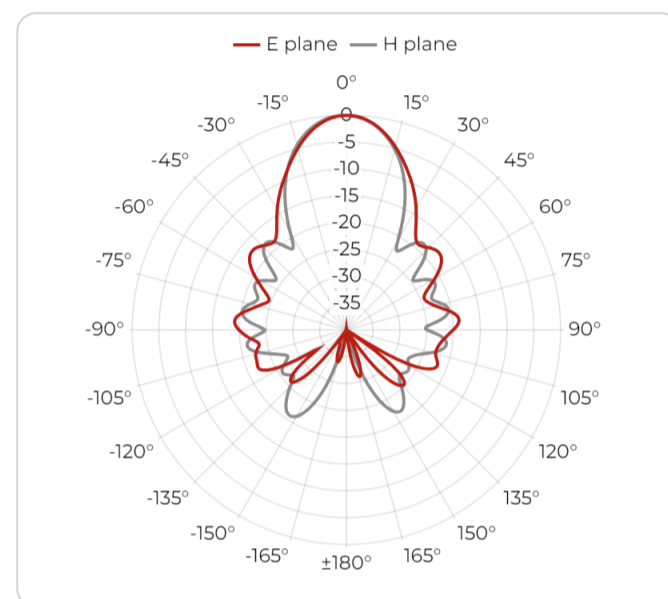
Port A, 3 GHz



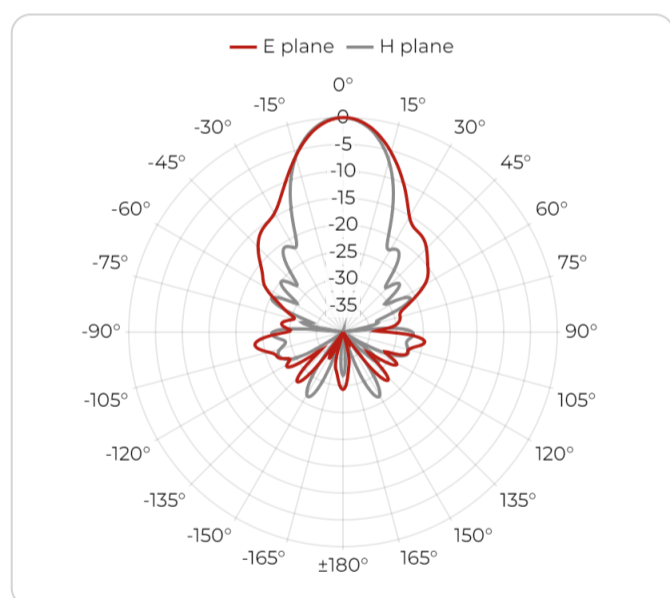
Port A, 4 GHz



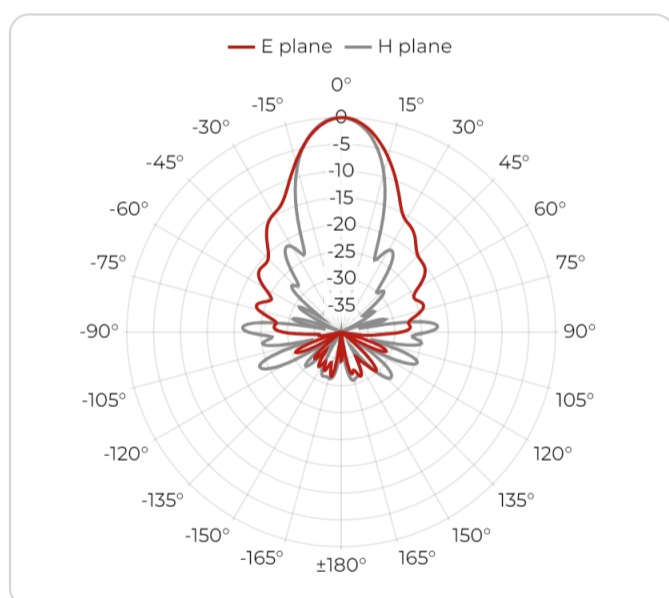
Port A, 5 GHz



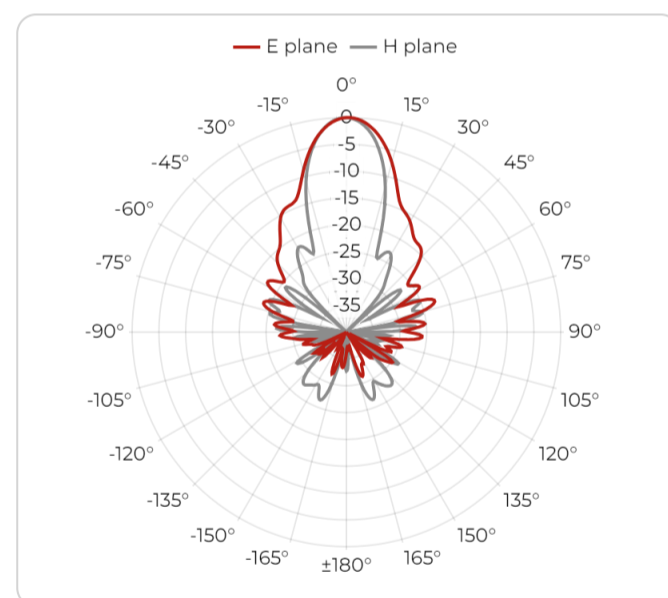
Port A, 6 GHz



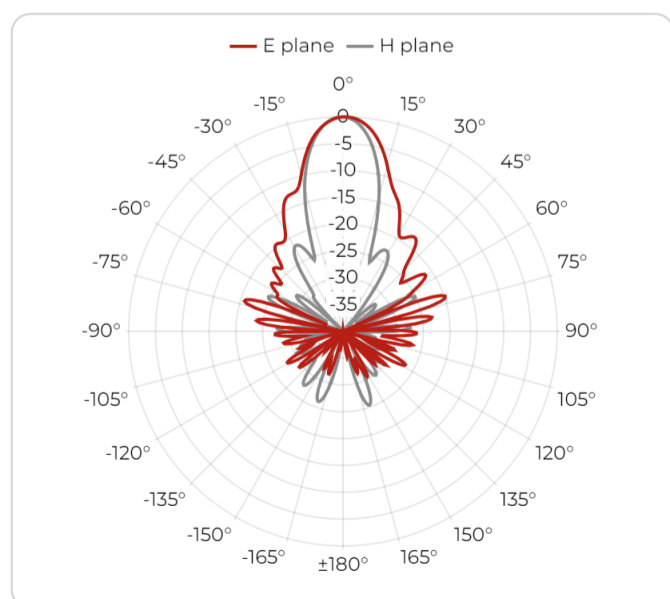
Port A, 7 GHz



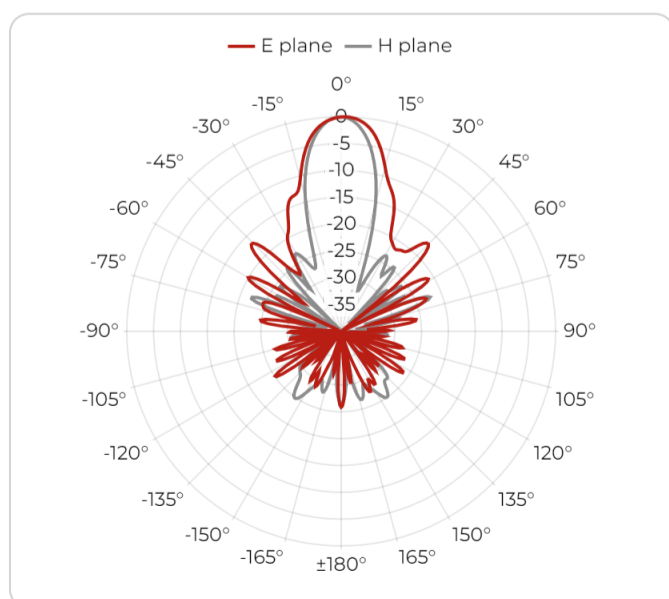
Port A, 8 GHz



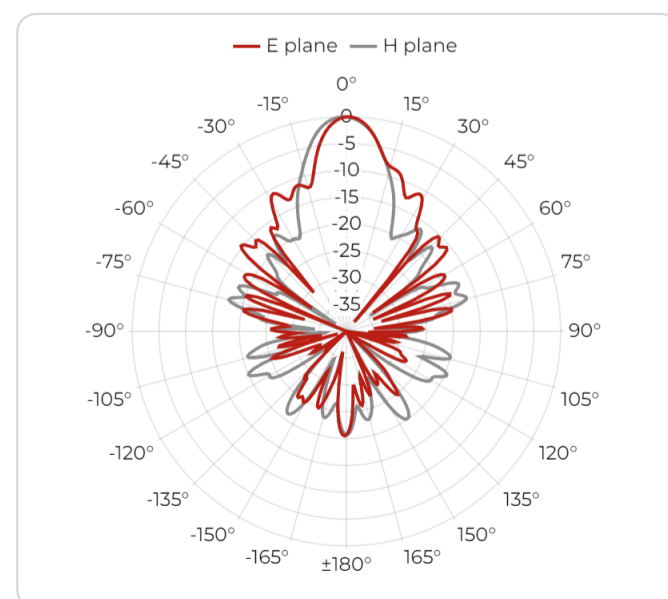
Port A, 9 GHz



Port A, 10 GHz

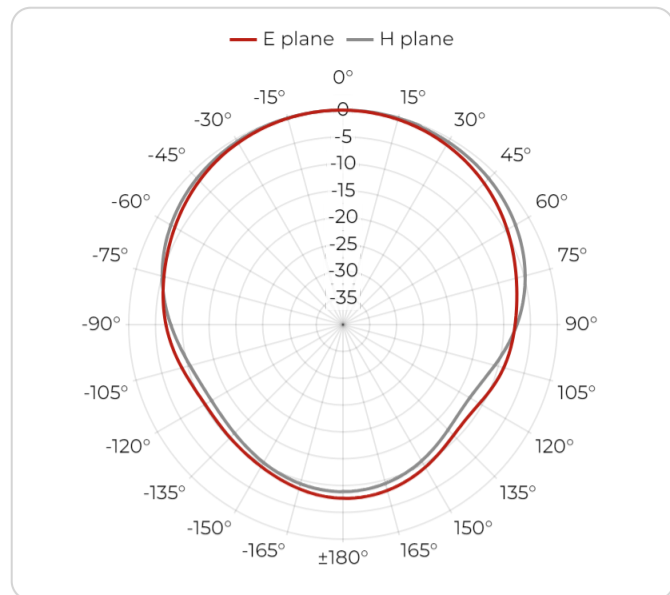


Port A, 11 GHz

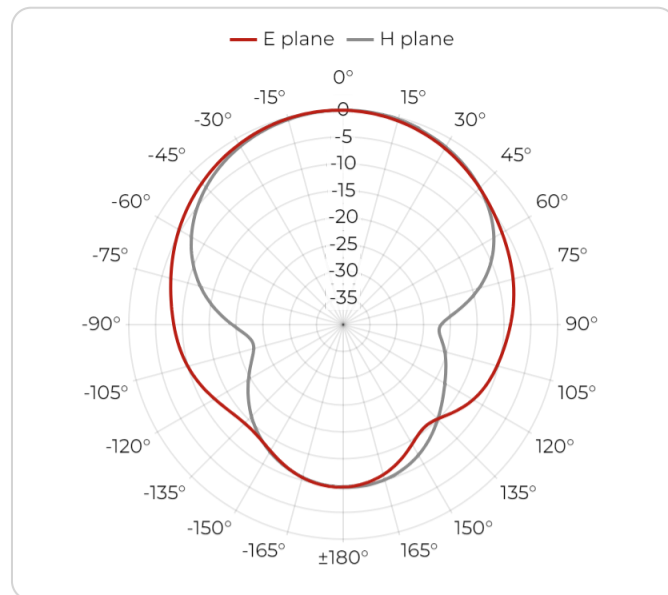


Radiation Patterns - Port B

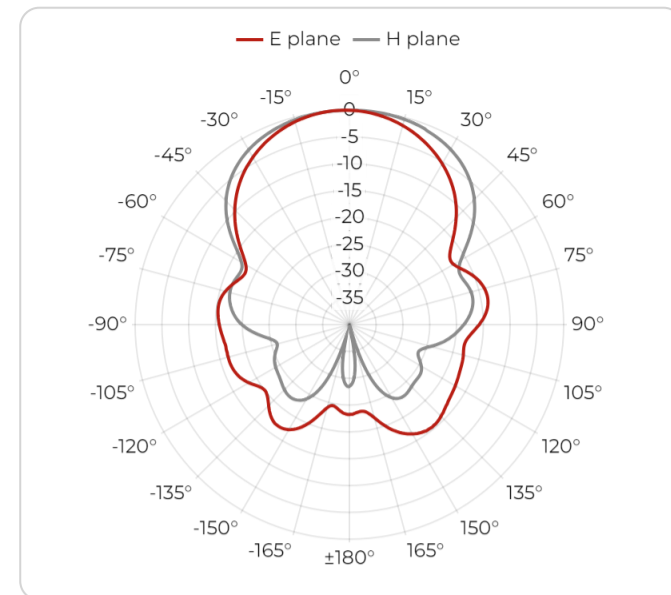
Port B, 0.73 GHz



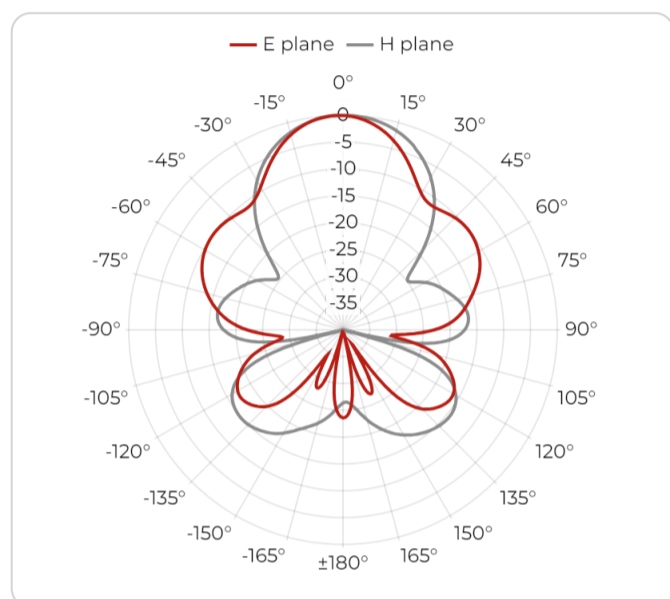
Port B, 1 GHz



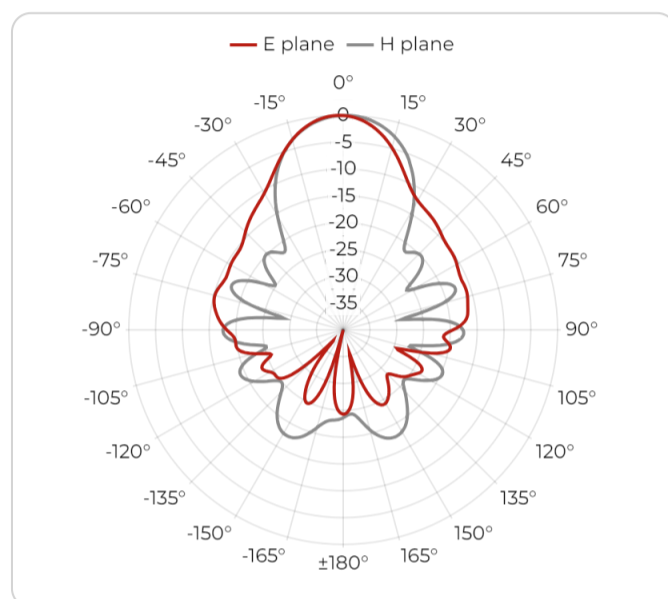
Port B, 2 GHz



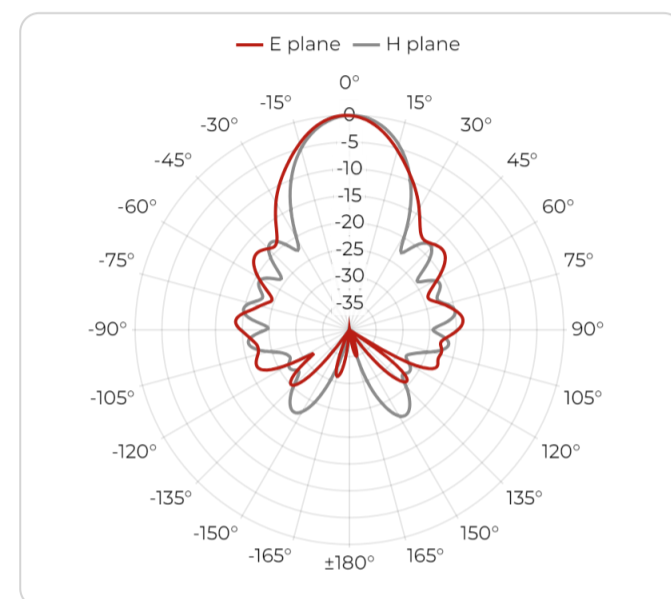
Port B, 3 GHz



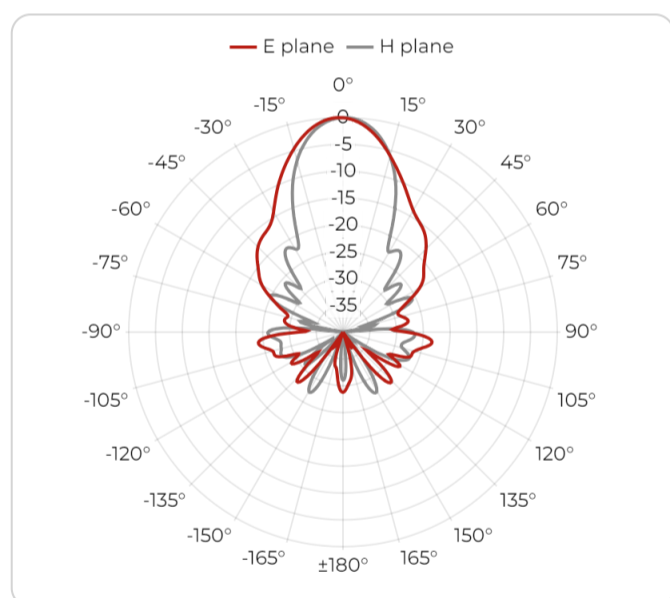
Port B, 4 GHz



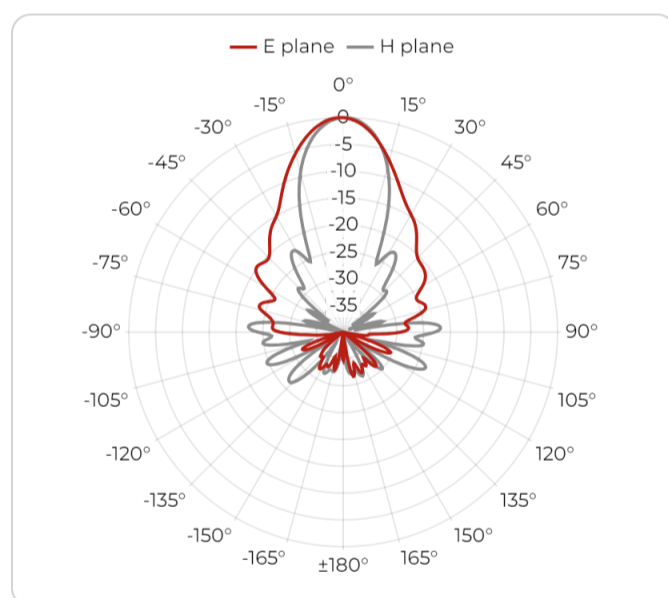
Port B, 5 GHz



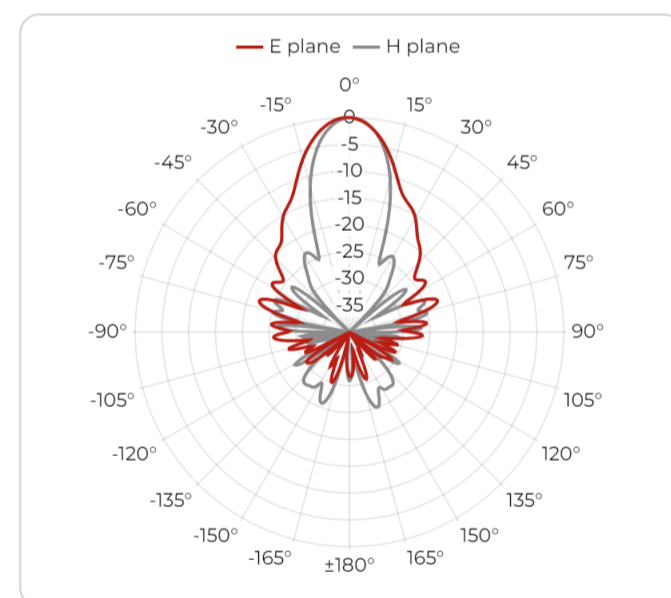
Port B, 6 GHz



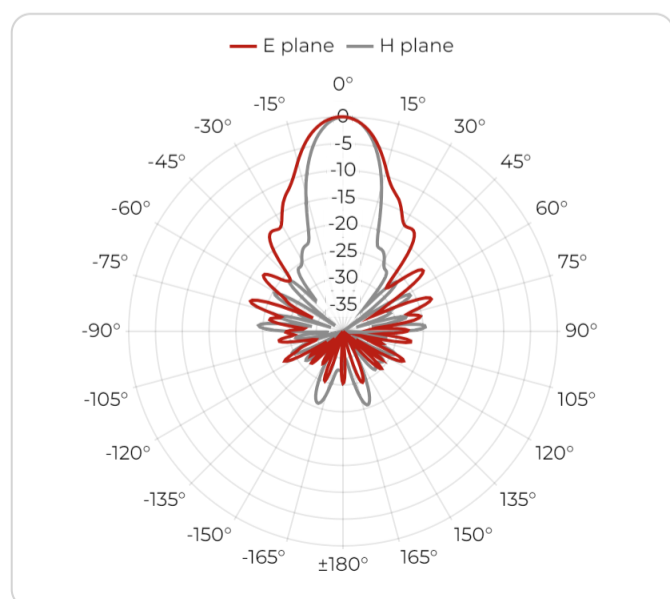
Port B, 7 GHz



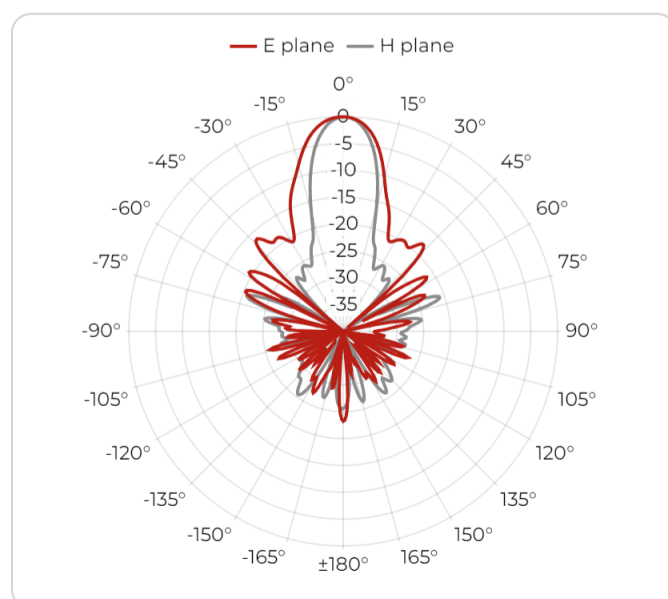
Port B, 8 GHz



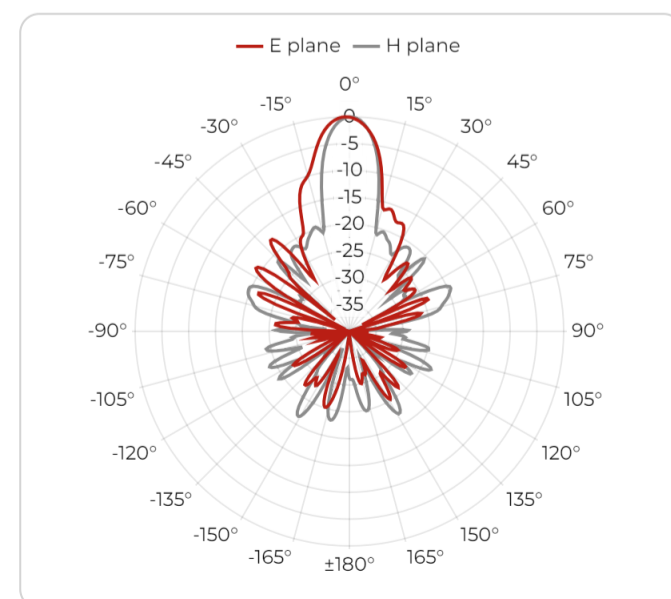
Port B, 9 GHz



Port B, 10 GHz



Port B, 11 GHz



Packaging and Accessories

What's in a box

- QRH11C Antenna
- Factory calibration certificate
- Full calibration report of each antenna
- QR code accessing online portal
- Calibration test dataset (available online)
- Universal antenna mount

Accessories

- Standard mounting flange

Optional Accessories

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

Custom services

- Custom mounting solutions
- Custom calibration data

Manufacturer Information

About Datasheet

Product information available also online at
<https://www.rfspin.com/product/grh11c/>

Data and specifications subject to change without notice.

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