



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.

Features and Specifications



Technical Performance

- Wide bandwidth
- Low return loss
- Individual calibration



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 ¼ inch inner thread, supplied with antenna
- Linear polarized double ridged broadband horn antenna

Product Parameters

PRODUCT IDENTIFICATION

Product Name	QRH20E
Product Category	Quad Ridged Horn Antenna

ELECTRICAL SPECIFICATIONS

Frequency Range	1.7 GHz – 20 GHz
VSWR (max.)	2.4
VSWR (avg.)	1.45
Impedance	50 Ohm
Connector	SMA (female)
Power (CW / Peak)	20 W / 40 W
Antenna Factor	28 – 42.5 dB/m
Port Isolation	-33 dB
Polarization	Dual Linear, Circular (with hybrid)

PHYSICAL SPECIFICATIONS

Width	101 mm (3.976 in)
Height	132 mm (5.197 in)
Depth	101 mm (3.976 in)
Weight	0.258 kg (0.569 lb)

OPERATING CONDITIONS

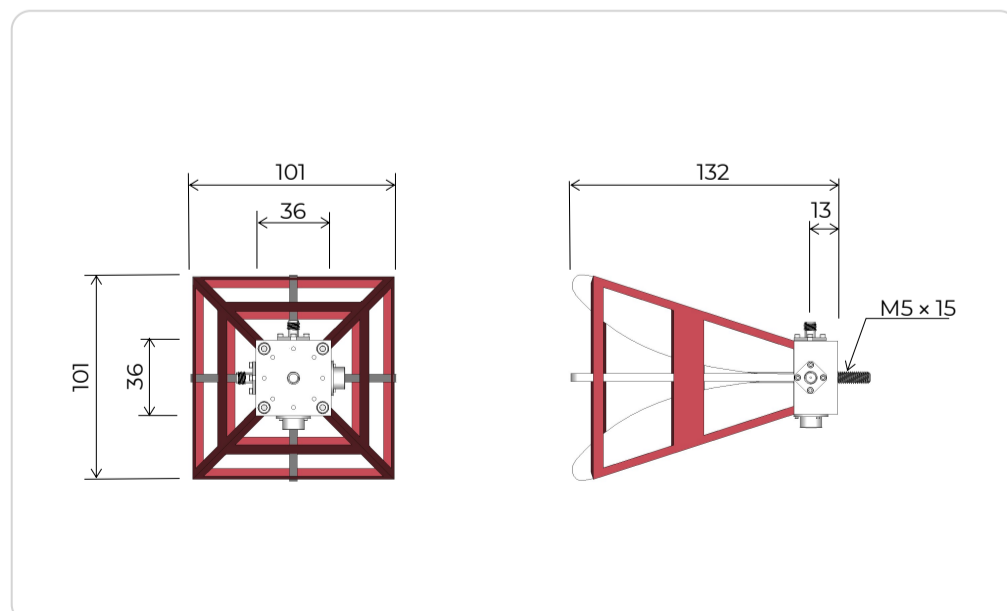
Rated Temperature Range	0°C – +50°C
Storage Temperature Range	-20°C – +70°C

MOUNTING FLANGE

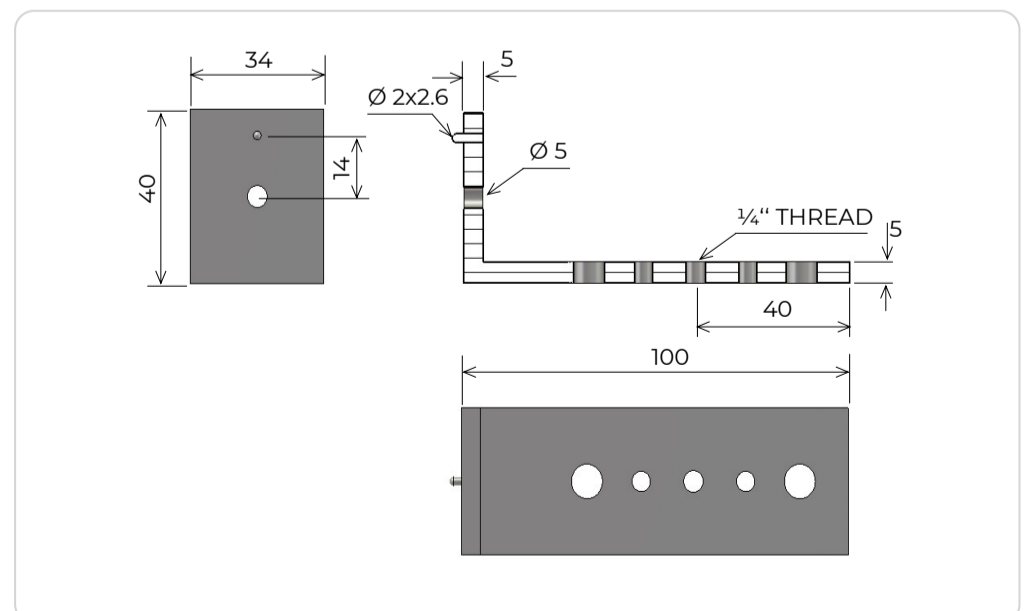
Mounting	Adapter with ¼ inch inner thread, supplied with antenna
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Mechanical Drawings

Antenna



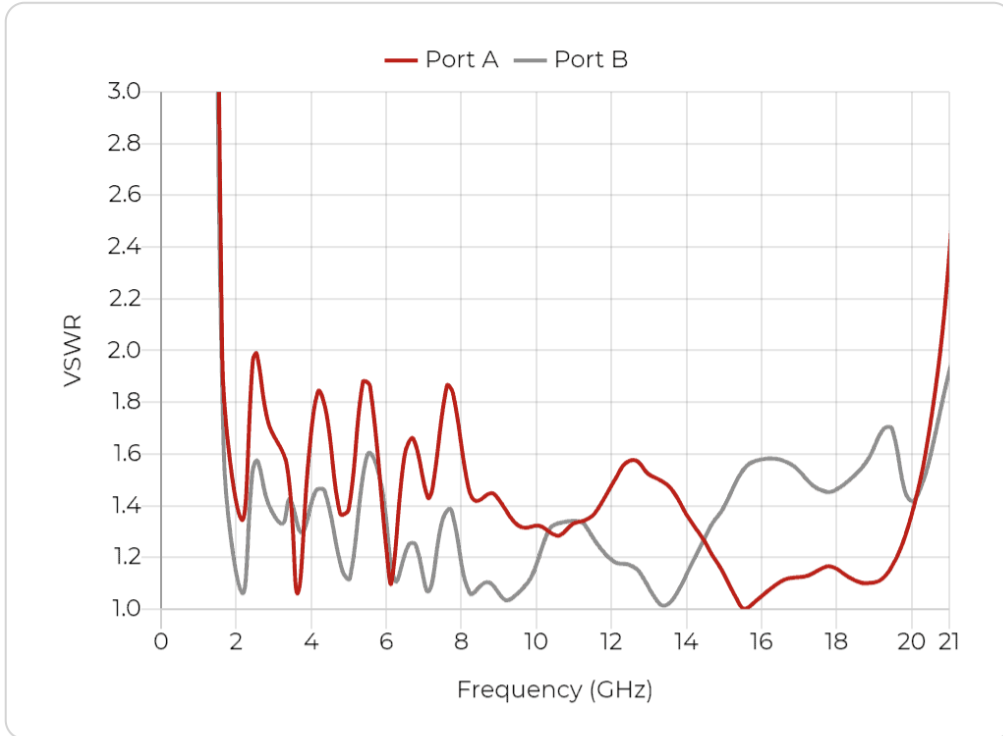
Mounting flange



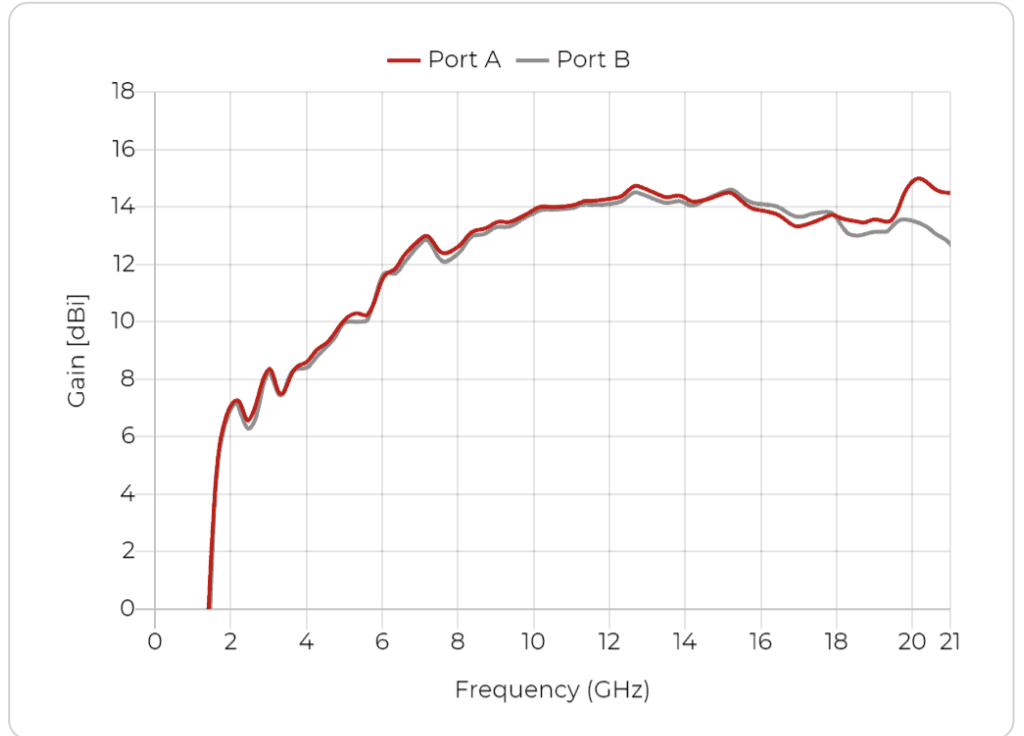
Parameters and Performance

Typical parameters

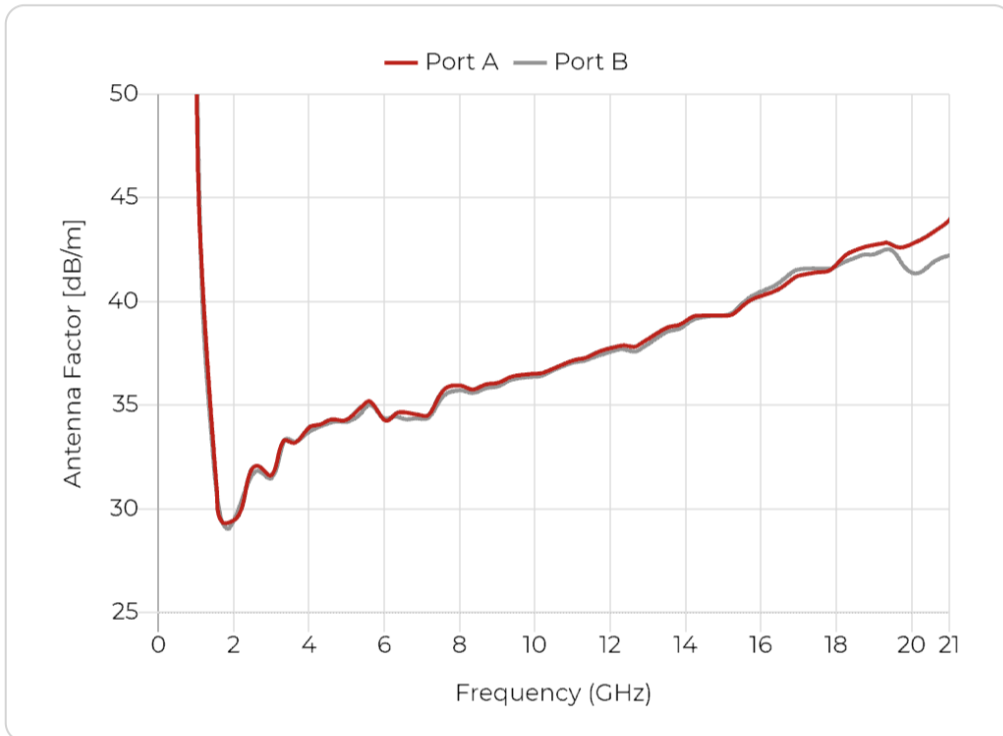
VSWR



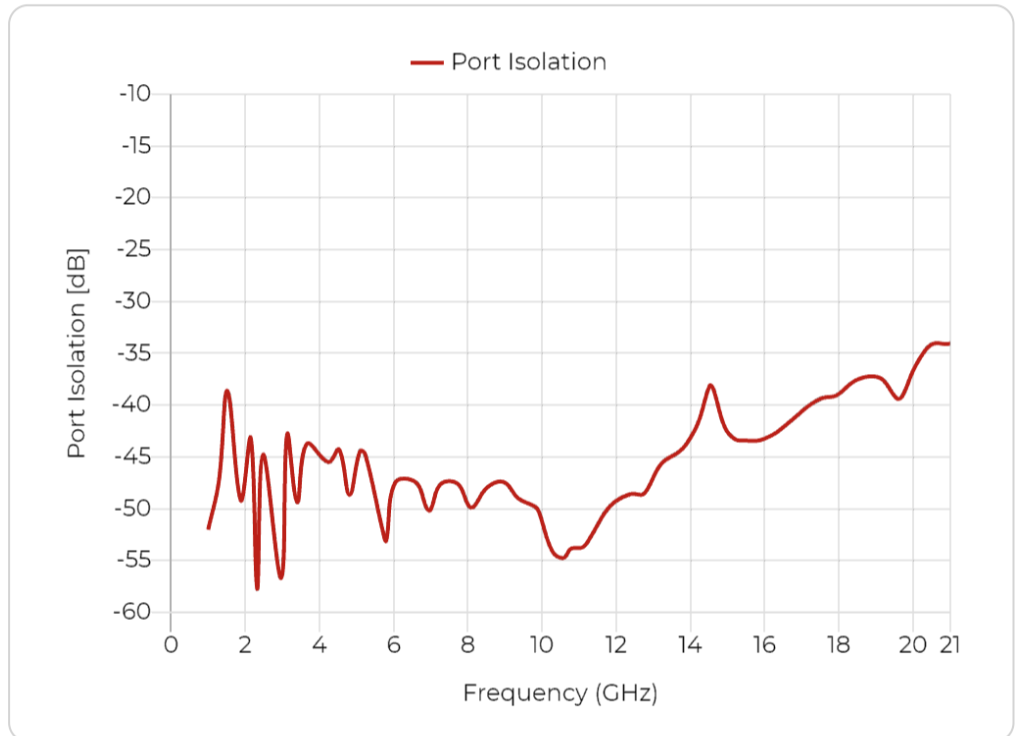
Gain



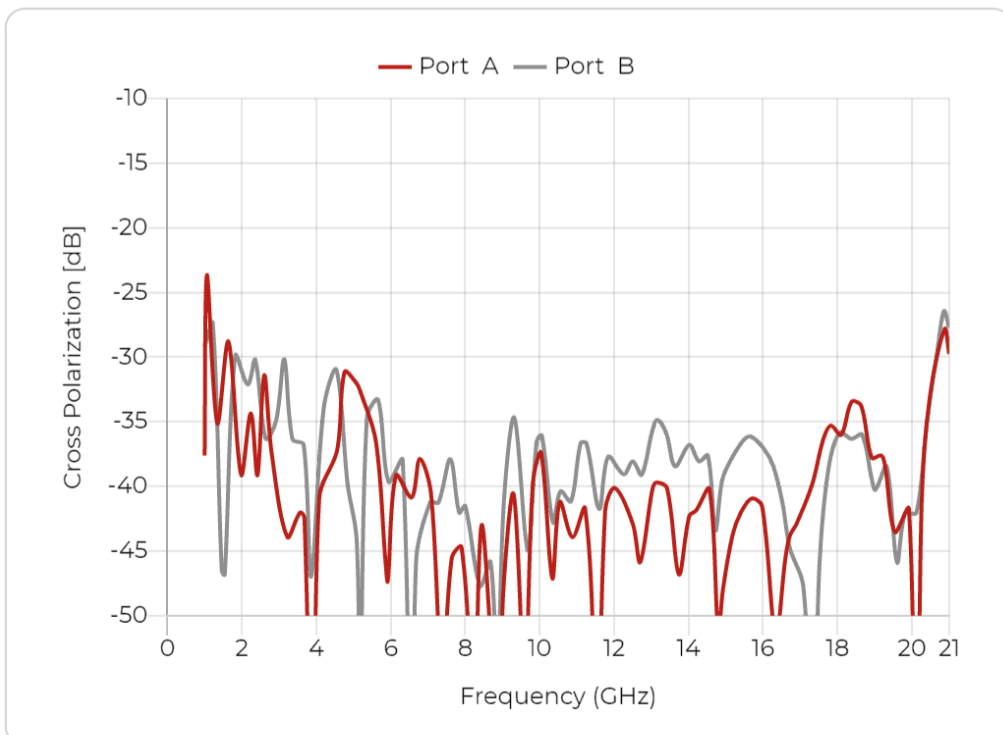
Antenna Factor



Port Isolation

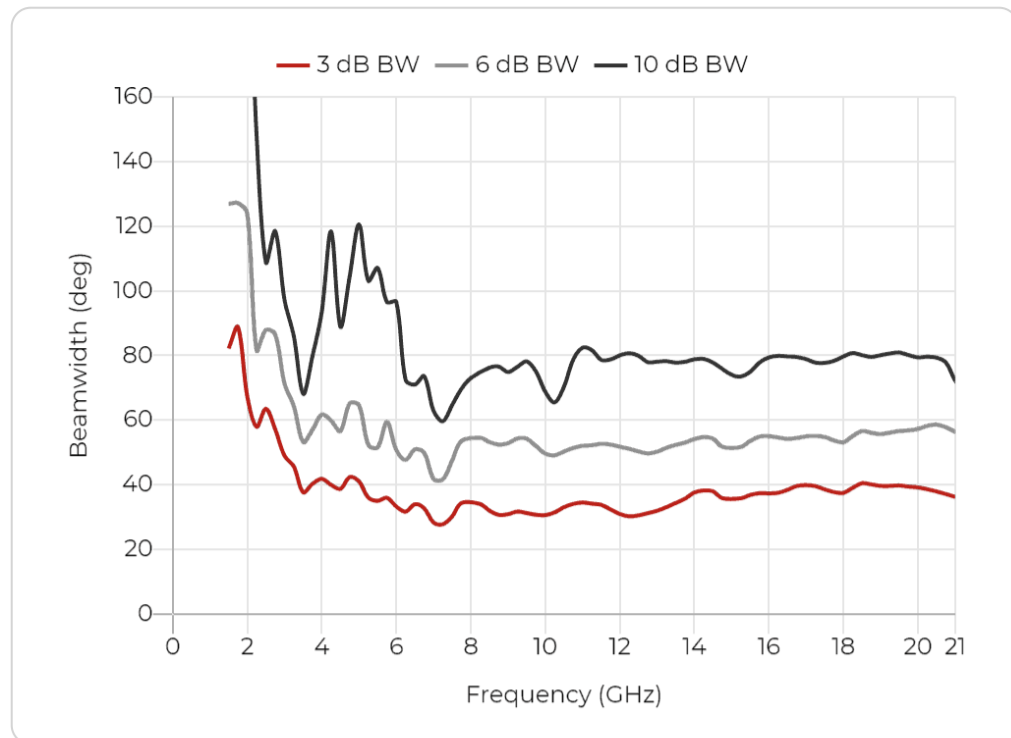


Cross Polarization

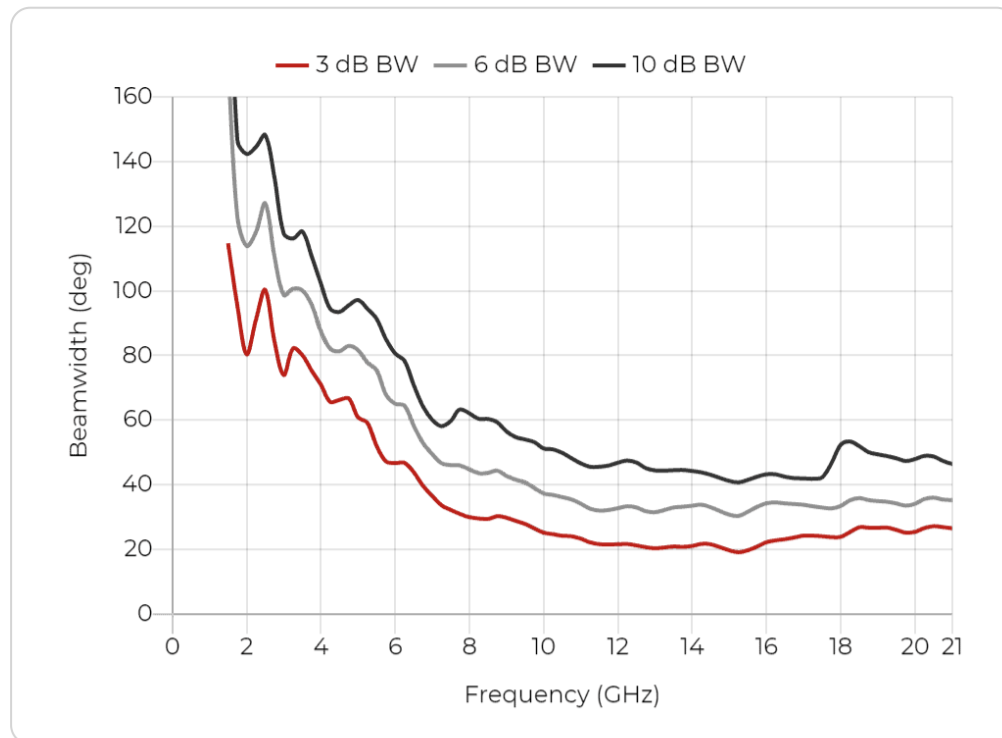


Beamwidth

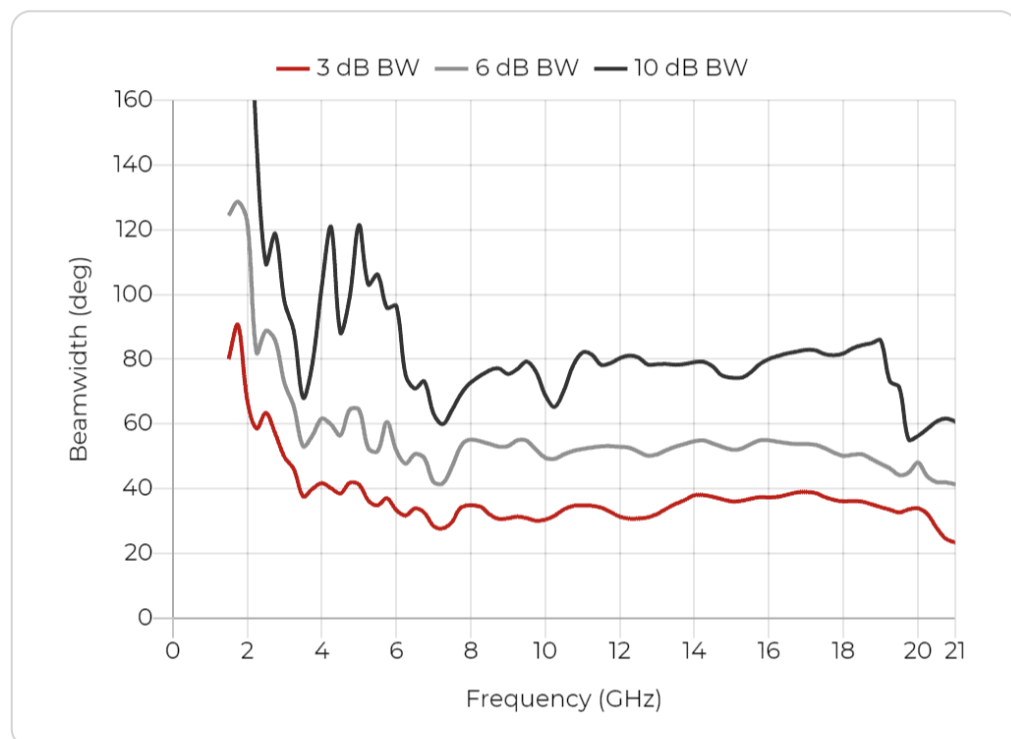
Port A, E plane



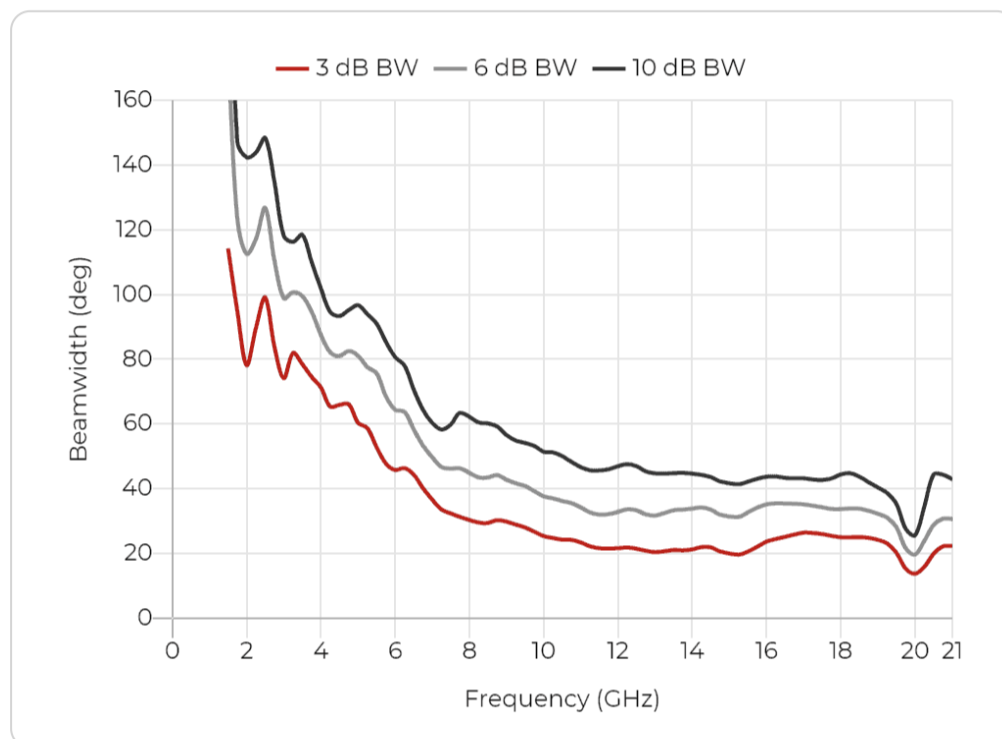
Port A, H plane



Port B, E plane

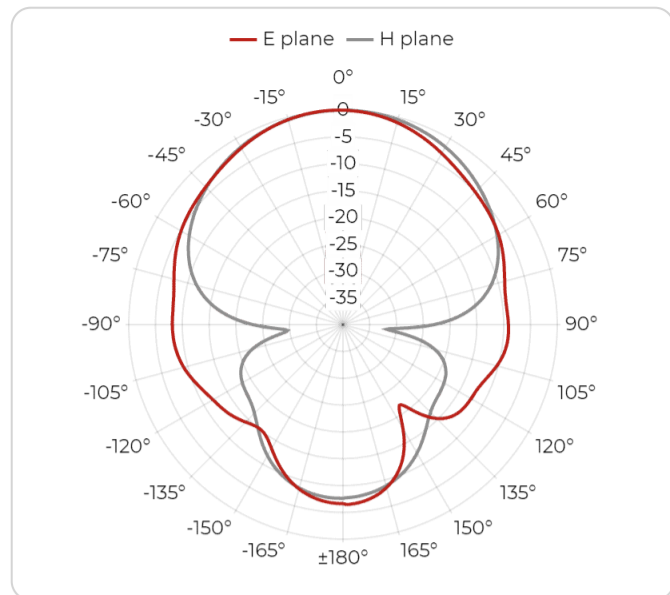


Port B, H plane

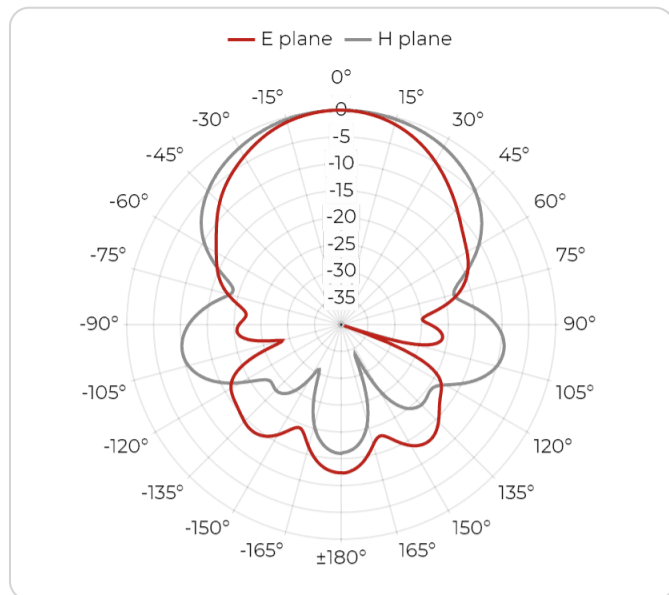


Radiation Patterns - Port A

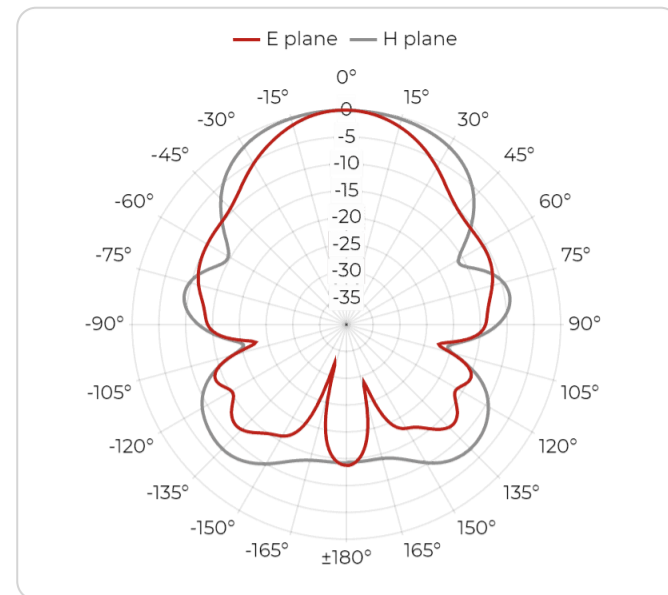
Port A, 2 GHz



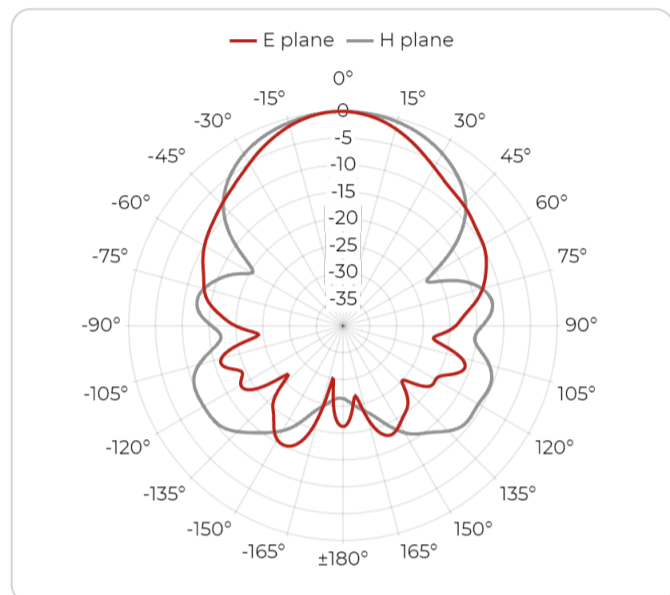
Port A, 3 GHz



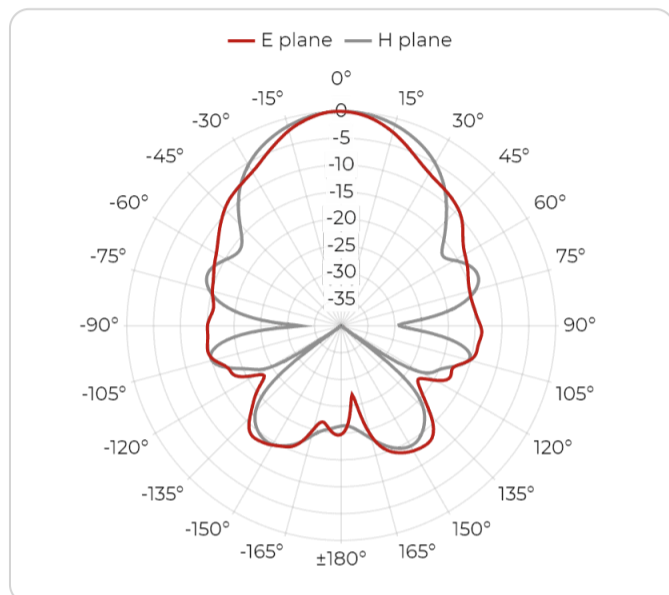
Port A, 4 GHz



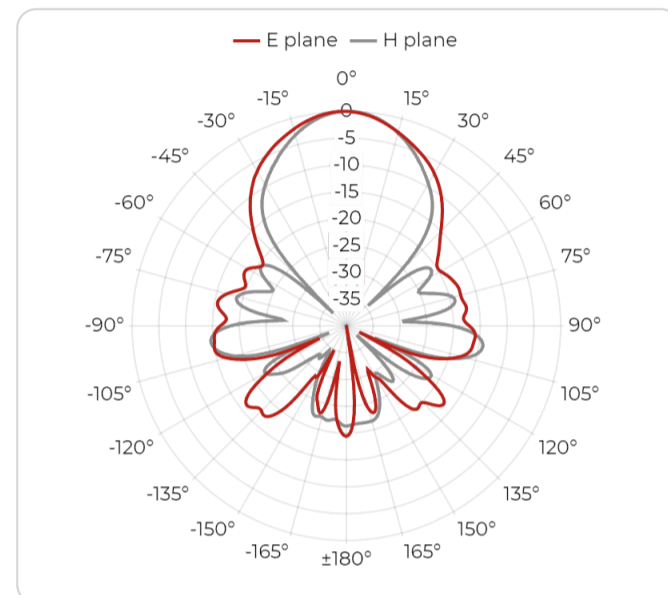
Port A, 5 GHz



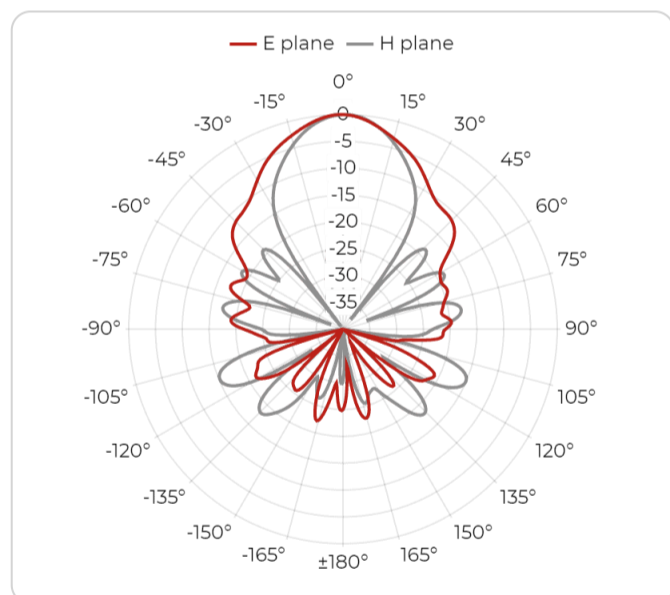
Port A, 6 GHz



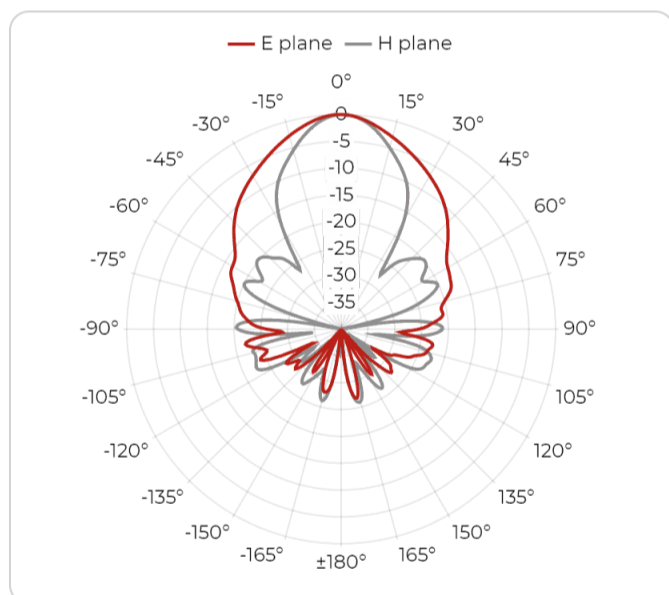
Port A, 8 GHz



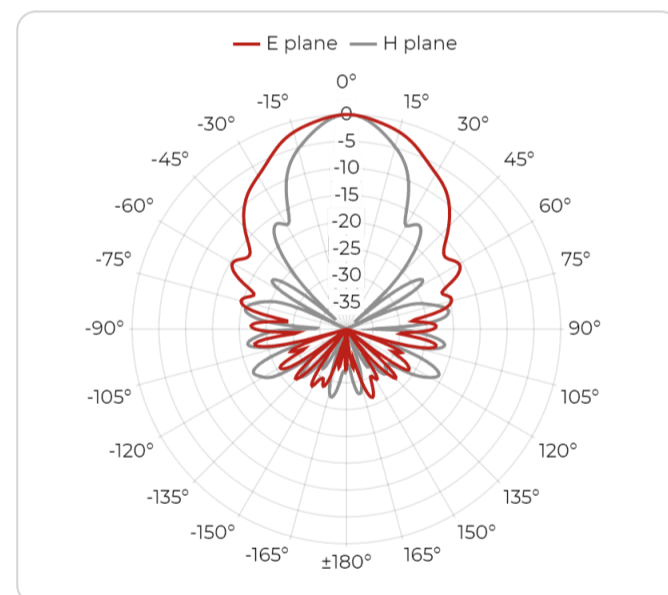
Port A, 10 GHz



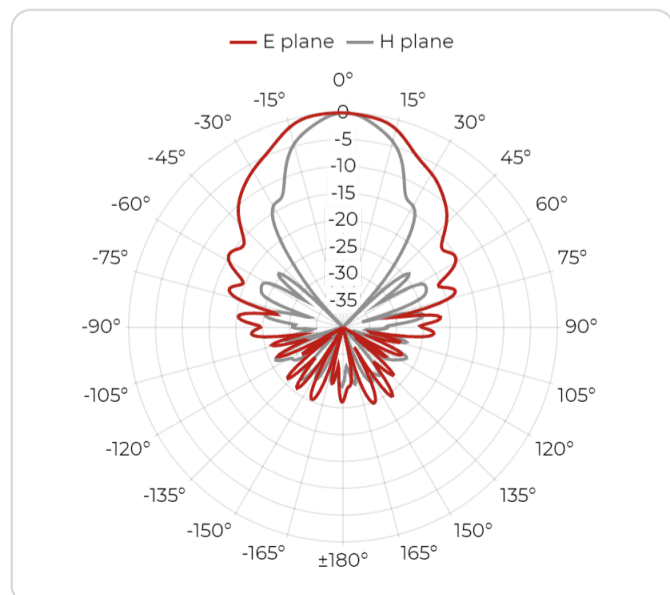
Port A, 12 GHz



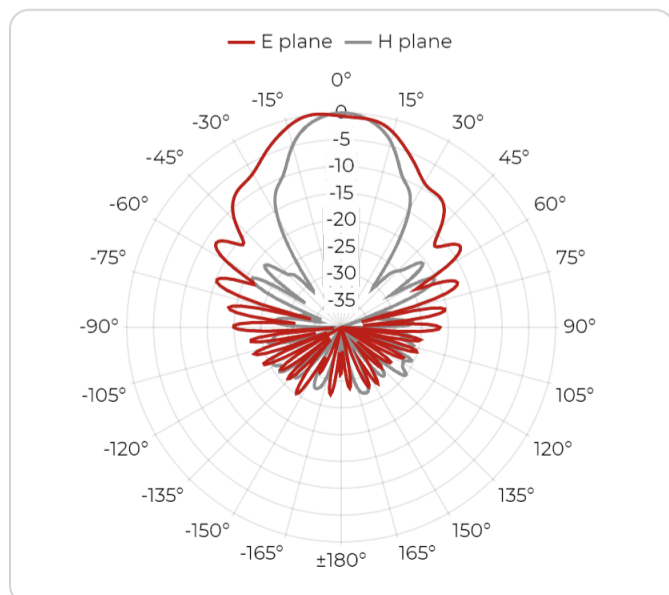
Port A, 14 GHz



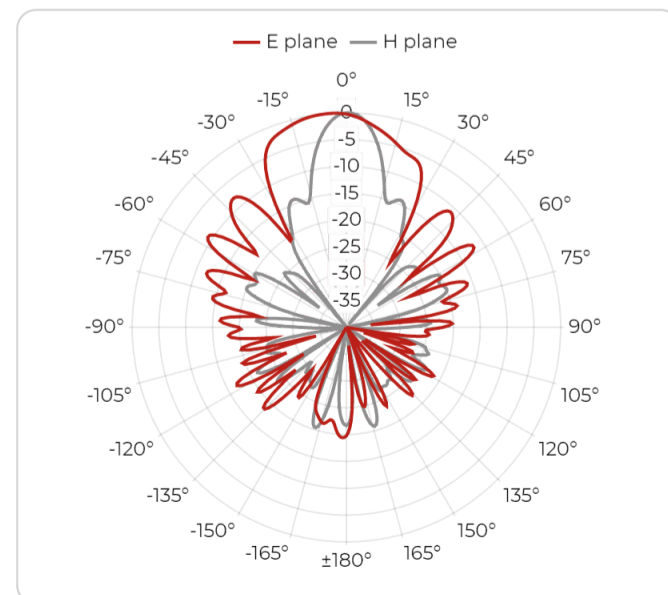
Port A, 16 GHz



Port A, 18 GHz

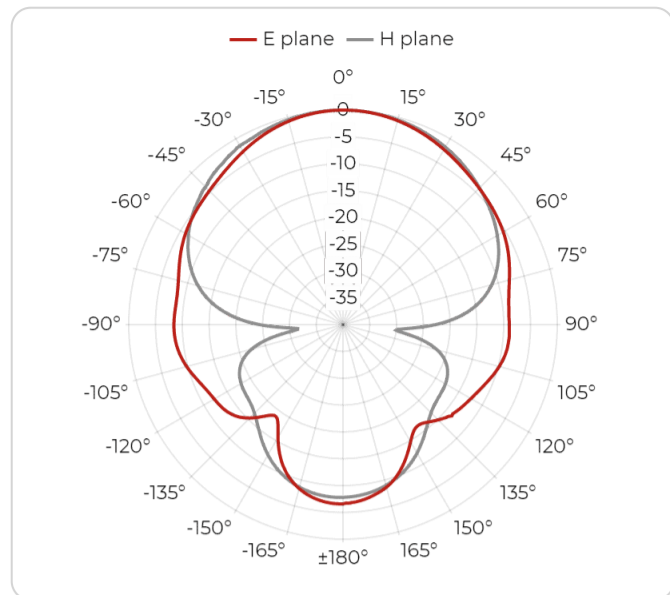


Port A, 20 GHz

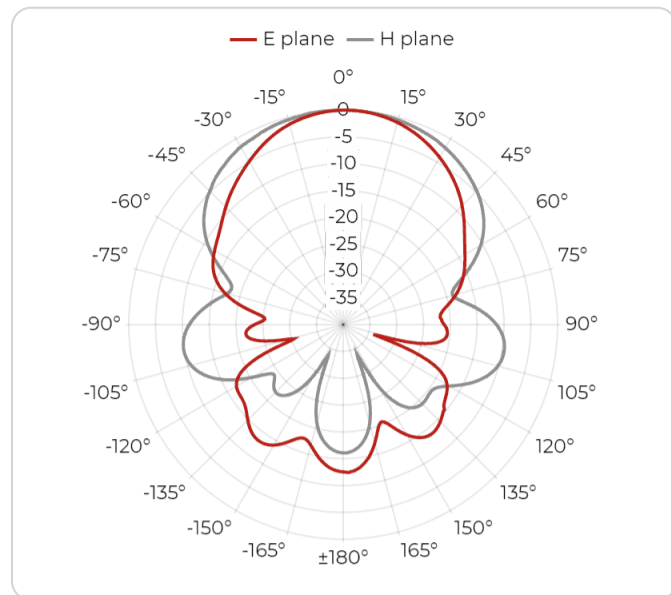


Radiation Patterns - Port B

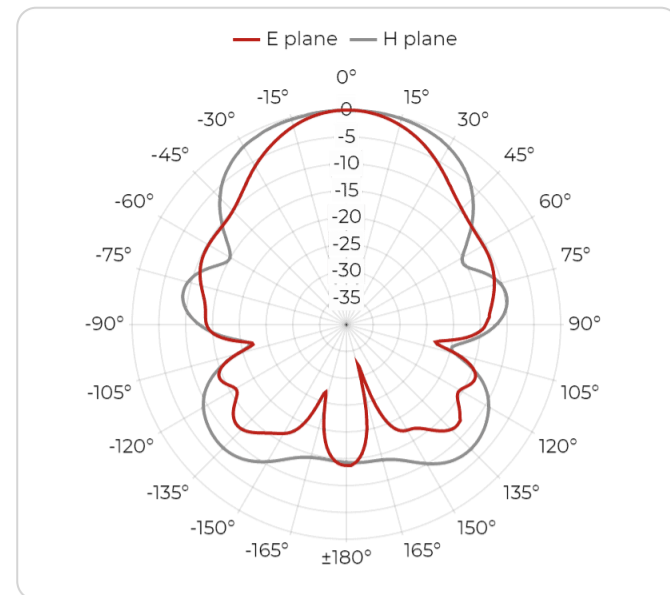
Port B, 2 GHz



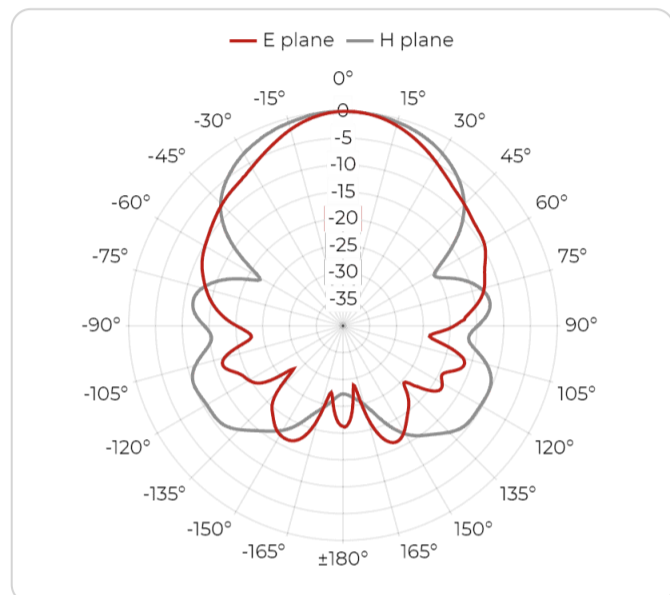
Port B, 3 GHz



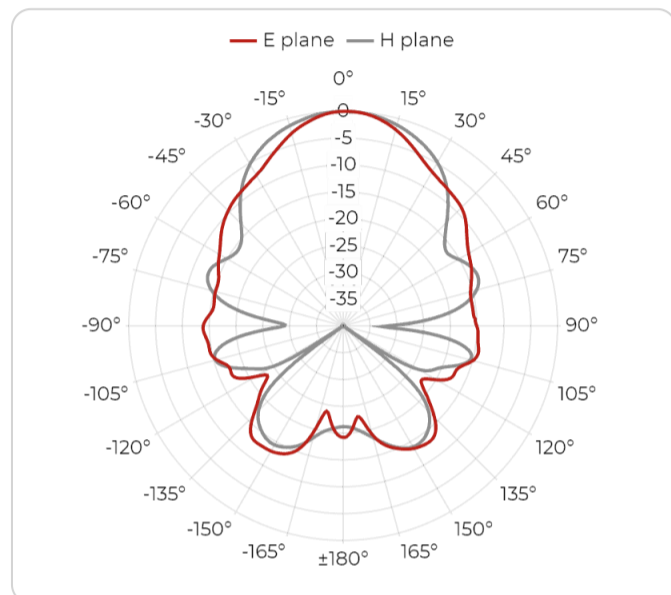
Port B, 4 GHz



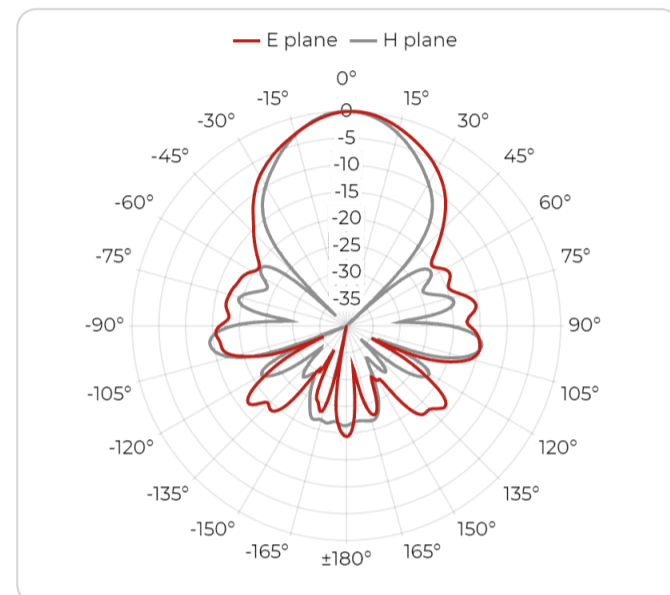
Port B, 5 GHz



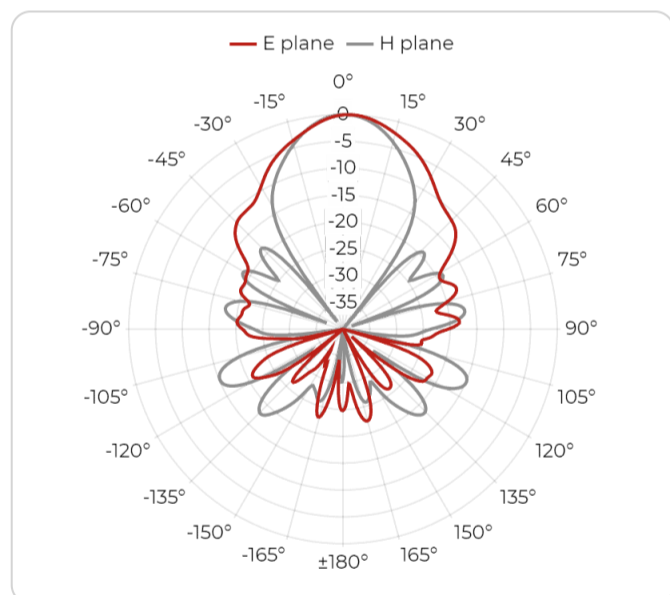
Port B, 6 GHz



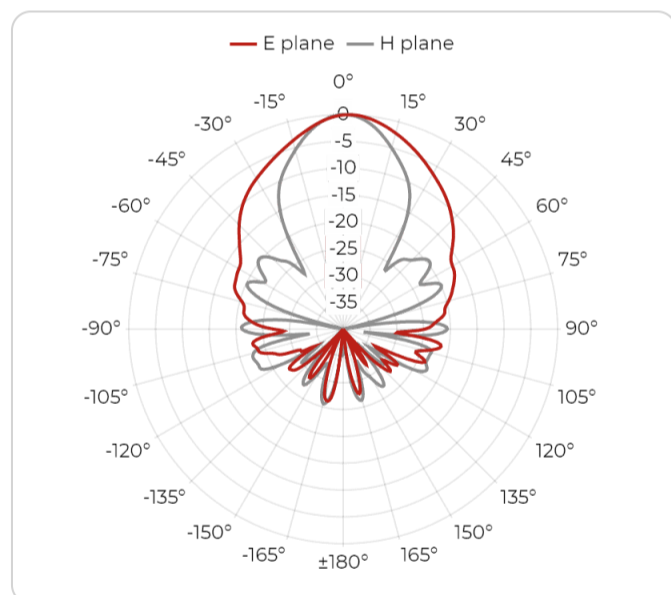
Port B, 8 GHz



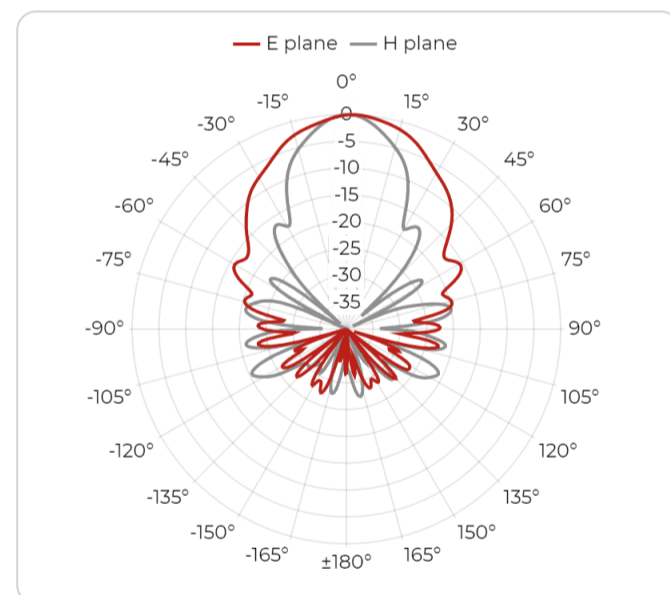
Port B, 10 GHz



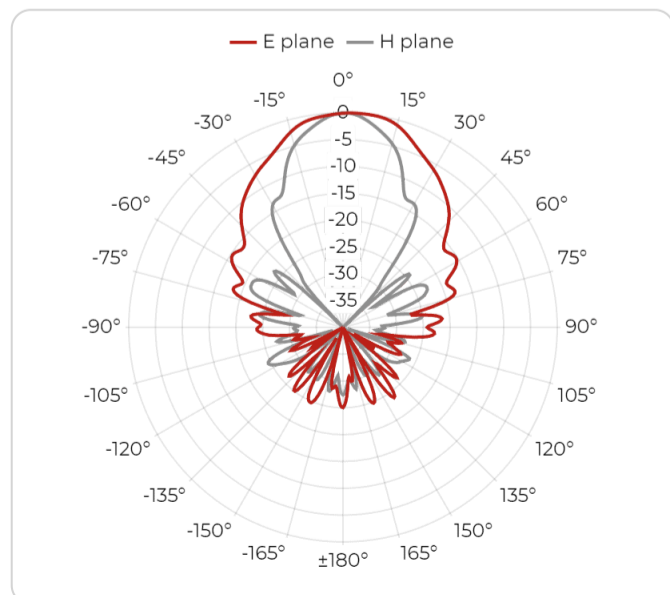
Port B, 12 GHz



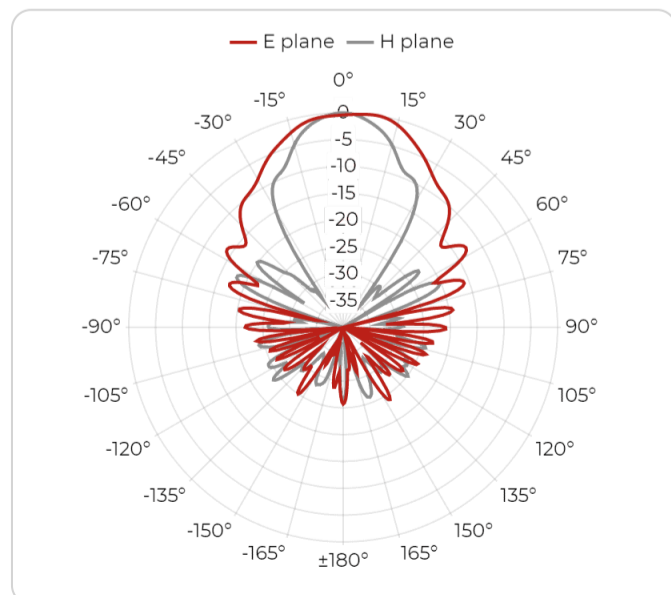
Port B, 14 GHz



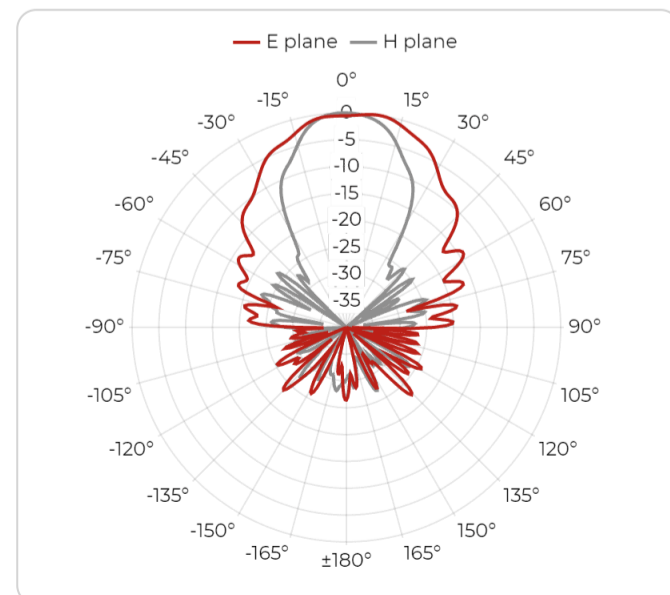
Port B, 16 GHz



Port B, 18 GHz



Port B, 20 GHz



Packaging and Accessories

What's in a box

- QRH20E 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

Custom services

- Custom mounting solutions
- Custom calibration data

Manufacturer Information

About Datasheet

Product information available also online at
<https://www.rfspin.com/product/grh20e/>

Data and specifications subject to change without notice.

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