



QRH400 Datasheet



QRH400 is a brother of DRH370. This dual-polarized broadband antenna with frequency from 400 MHz up to 6 GHz, this antenna is perfect for big chambers and EMC measurements. 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.

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

- Extremely durable
- High quality N type coaxial connector



Product Packaging Includes

- Linear polarized double ridged broadband horn antenna
- Universal antenna mount

Product Parameters

PRODUCT IDENTIFICATION

Product Name	QRH400
Product Category	Quad Ridged Horn Antenna

ELECTRICAL SPECIFICATIONS

Frequency Range	400 MHz – 6 GHz
VSWR (max.)	2.3
VSWR (avg.)	1.5
Impedance	50 Ohm
Connector	N (female)
Power (CW / Peak)	500 W / 700 W
Antenna Factor	17 – 33 dB/m
Port Isolation	-32 dB
Polarization	Dual Linear, Circular (with hybrid)

PHYSICAL SPECIFICATIONS

Width	335 mm (13.189 in)
Height	433 mm (17.047 in)
Depth	335 mm (13.189 in)
Weight	4 kg (8.818 lb)

OPERATING CONDITIONS

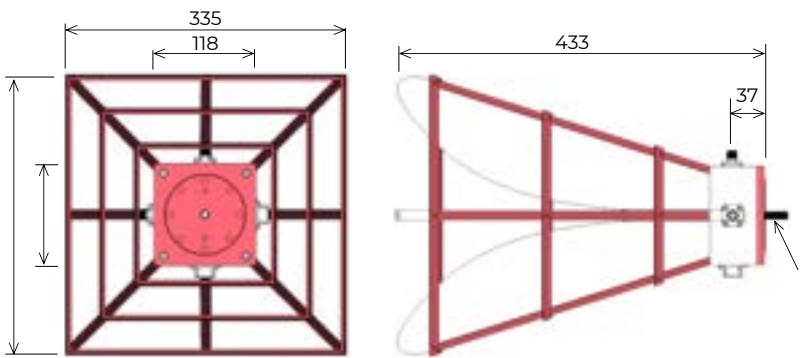
Rated Temperature Range	0°C – +50°C
Storage Temperature Range	-20°C – +70°C

MOUNTING FLANGE

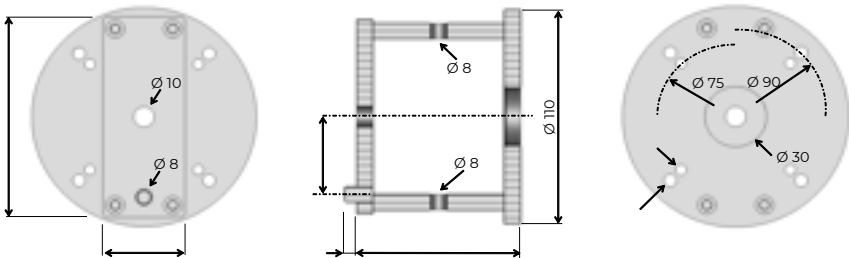
Mounting	Universal antenna mount
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Mechanical Drawings

Antenna



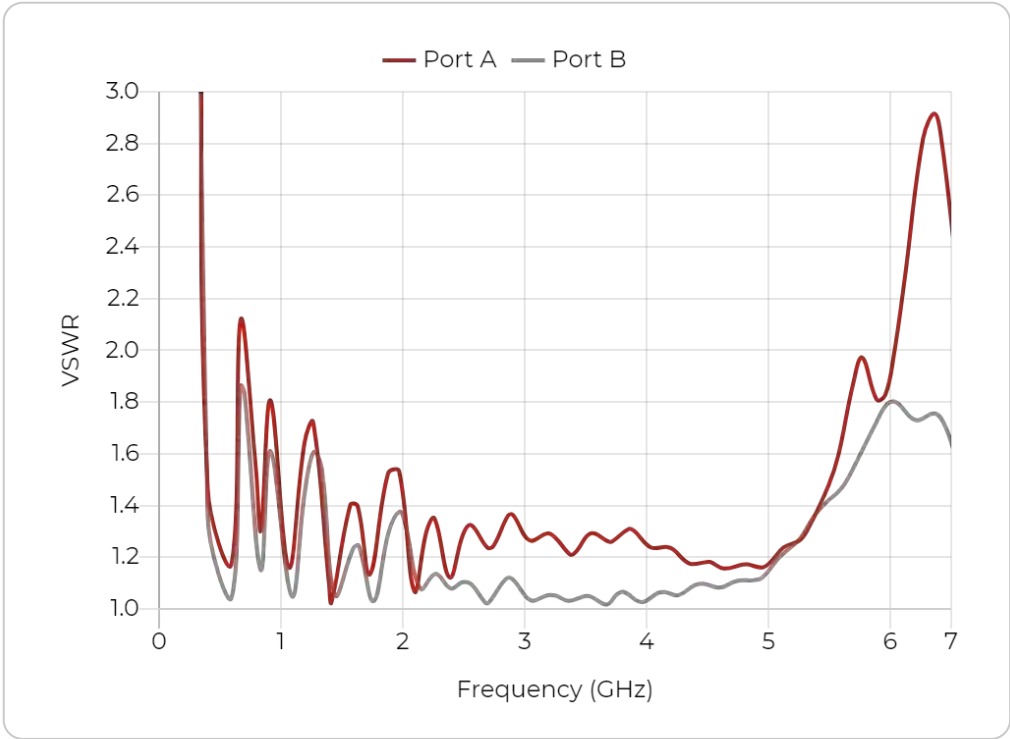
Mounting flange



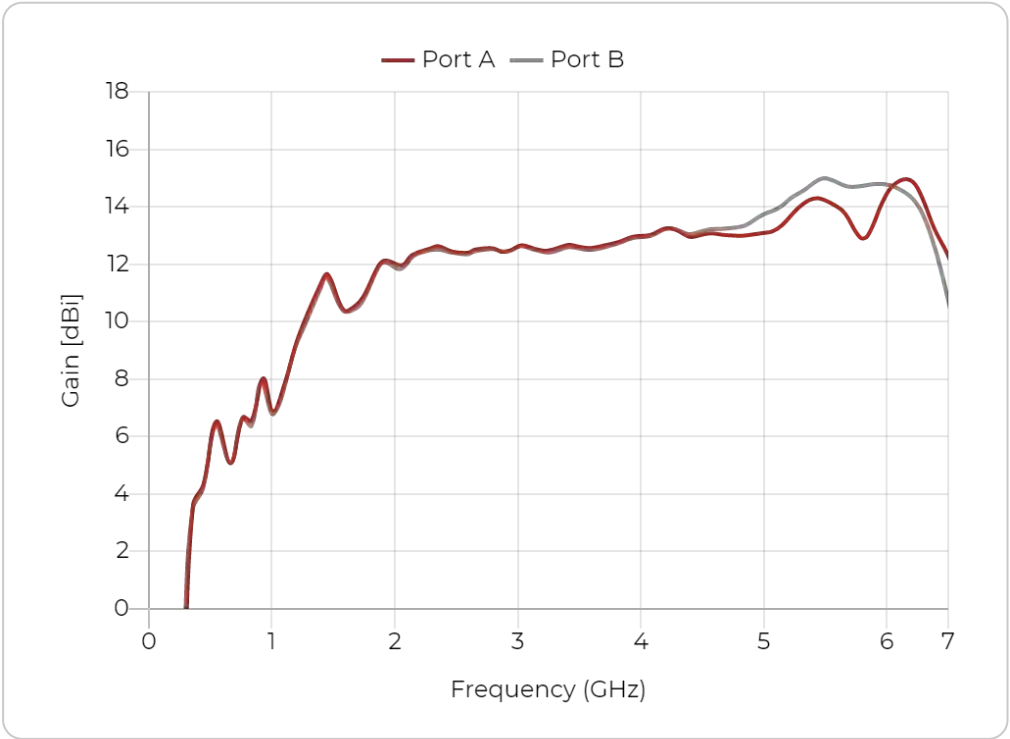
Parameters and Performance

Typical parameters

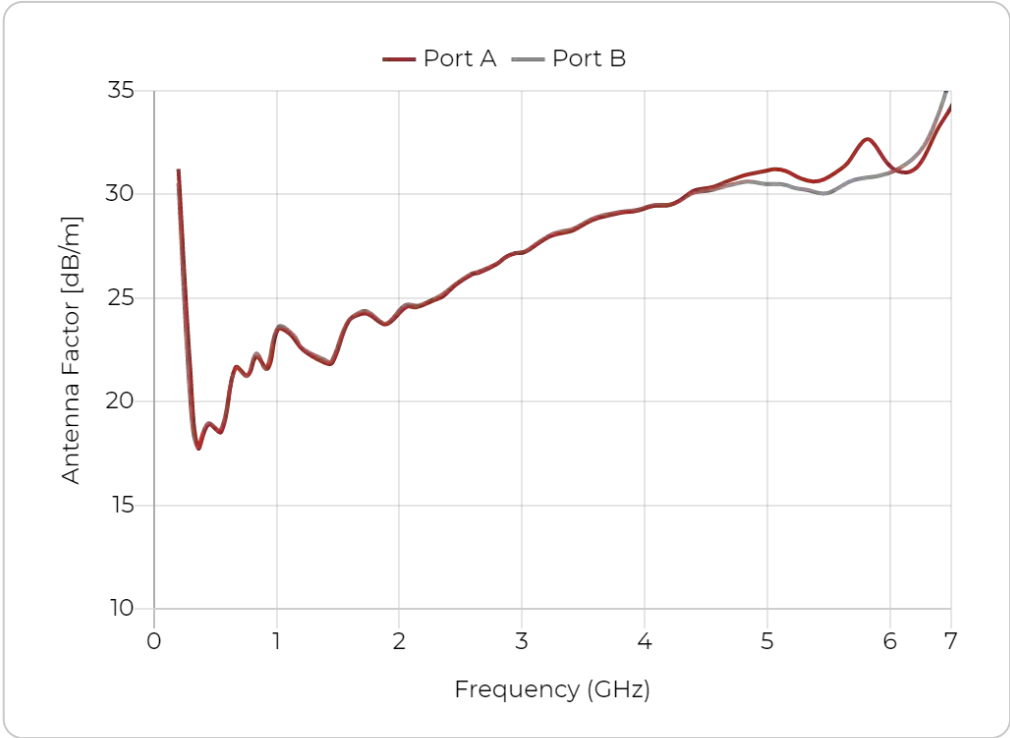
VSWR



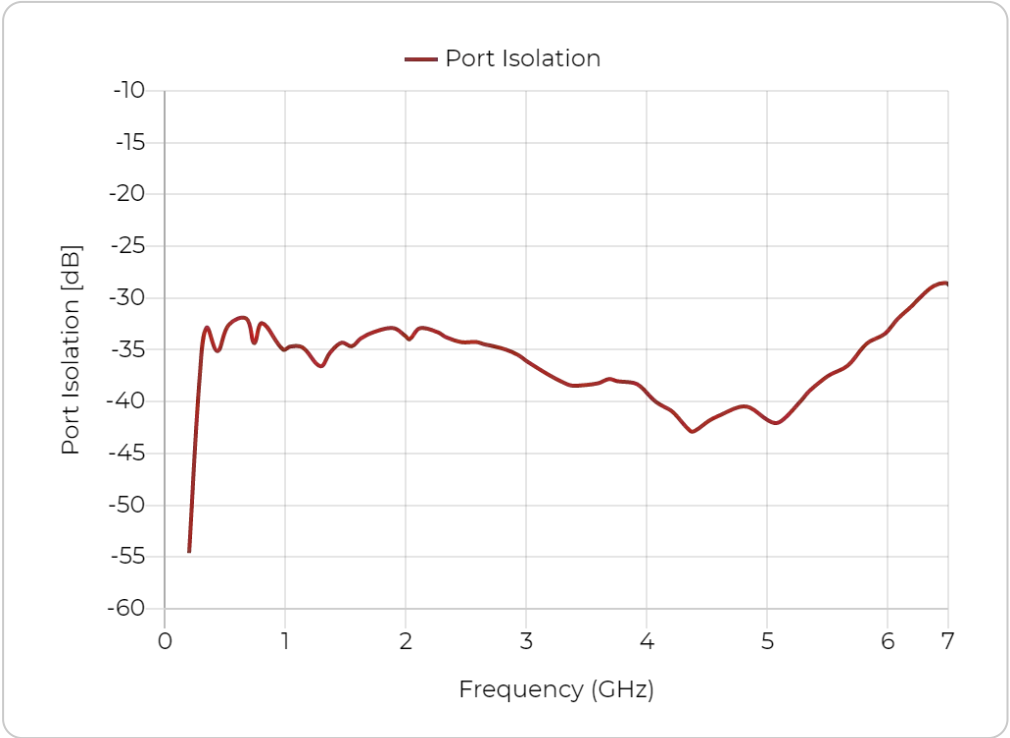
Gain



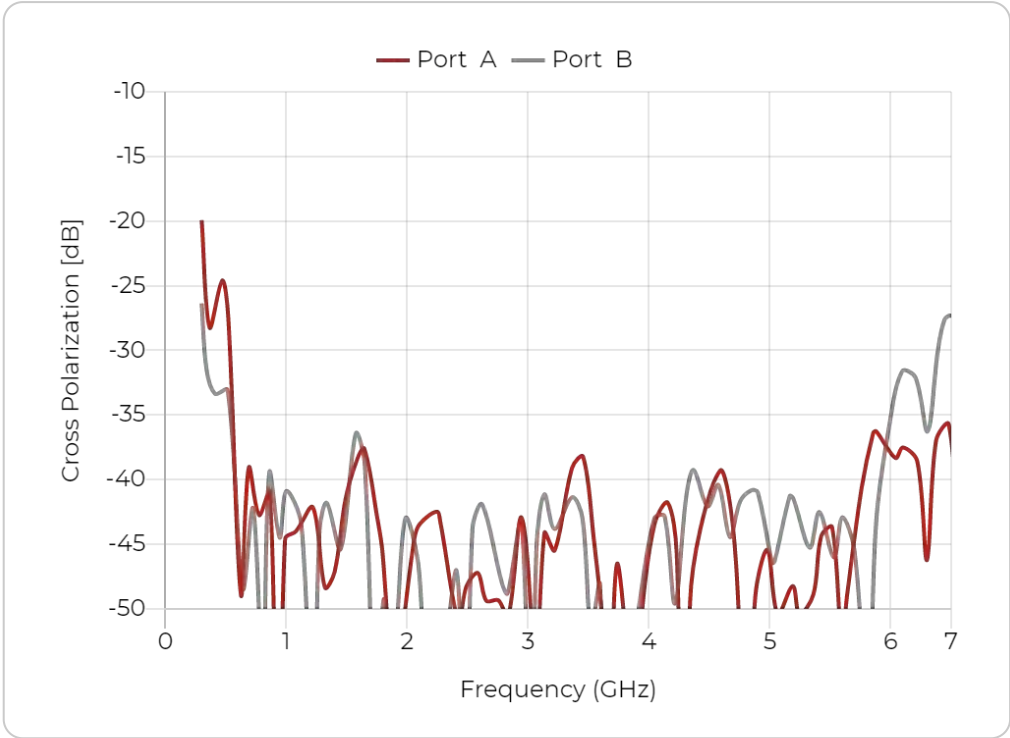
Antenna Factor



Port Isolation

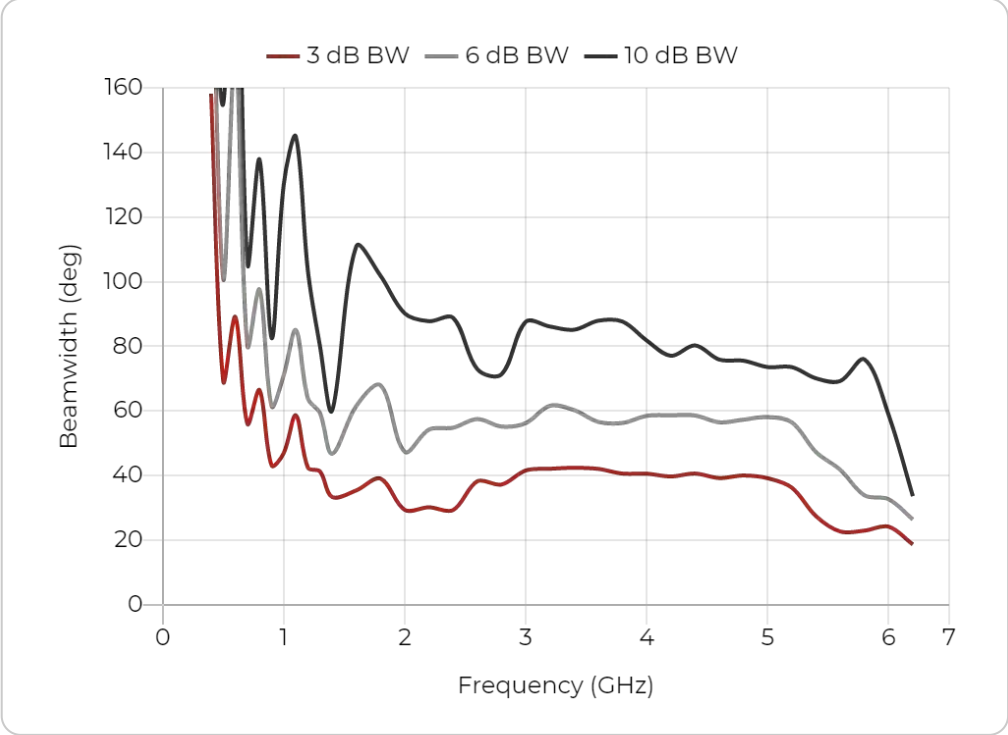


Cross Polarization

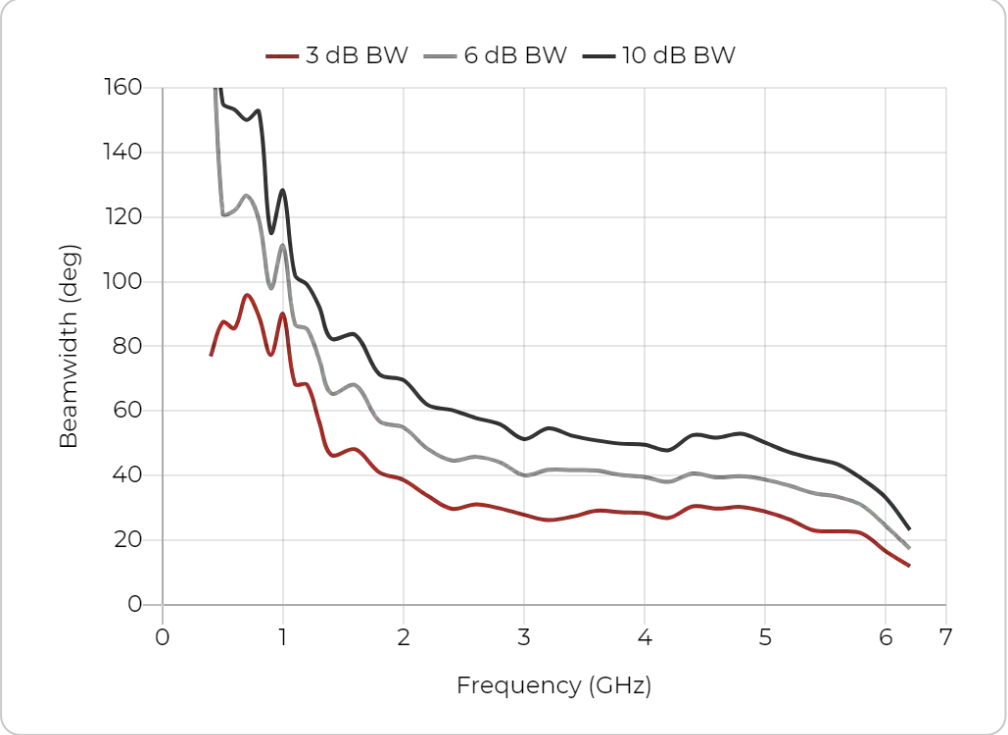


Beamwidth

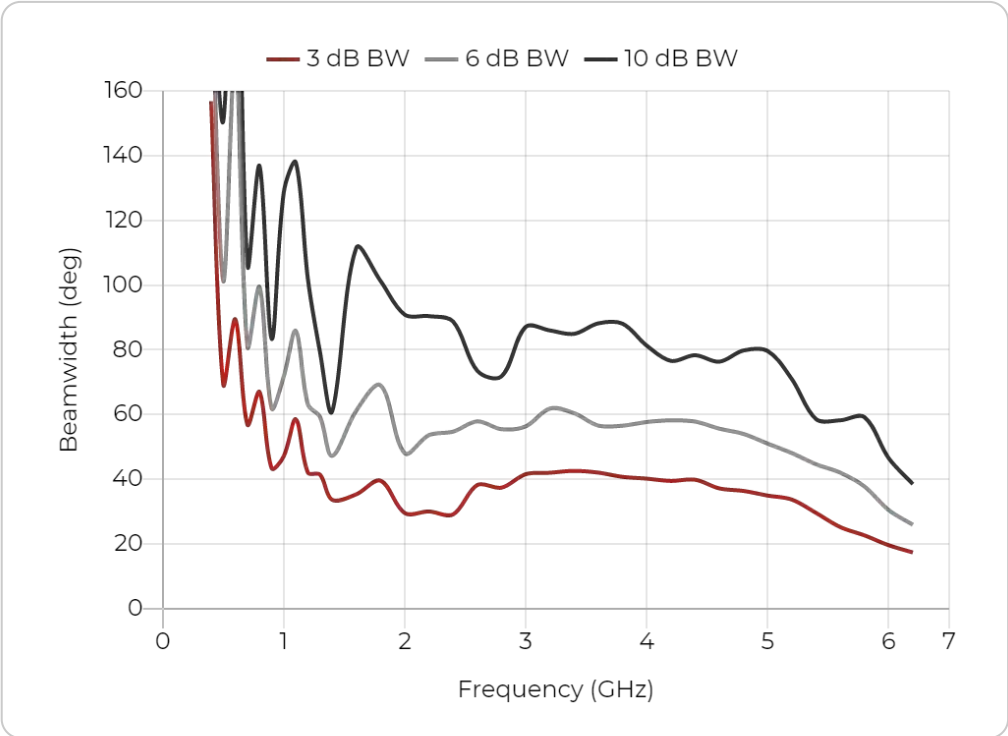
Port A, E plane



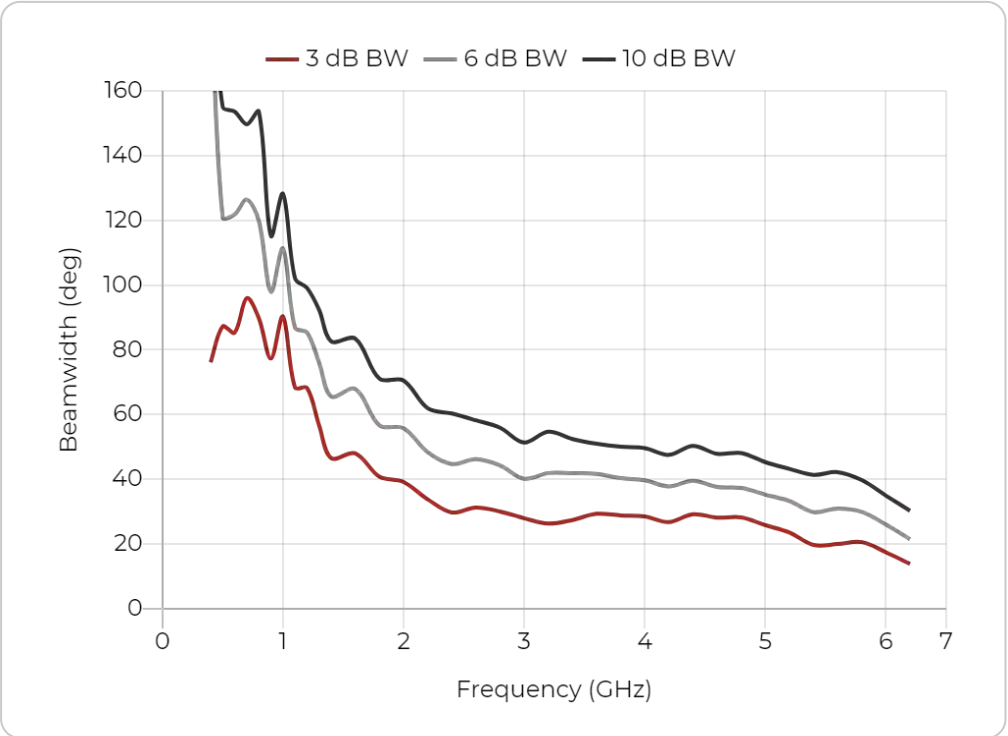
Port A, H plane



Port B, E plane

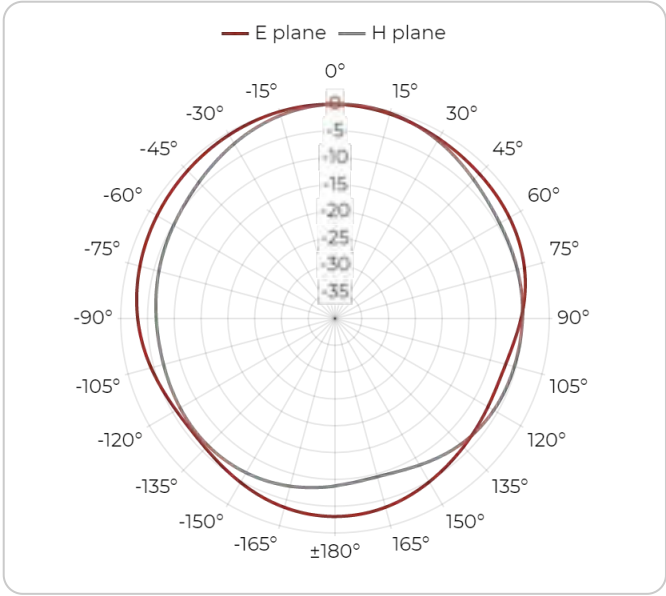


Port B, H plane

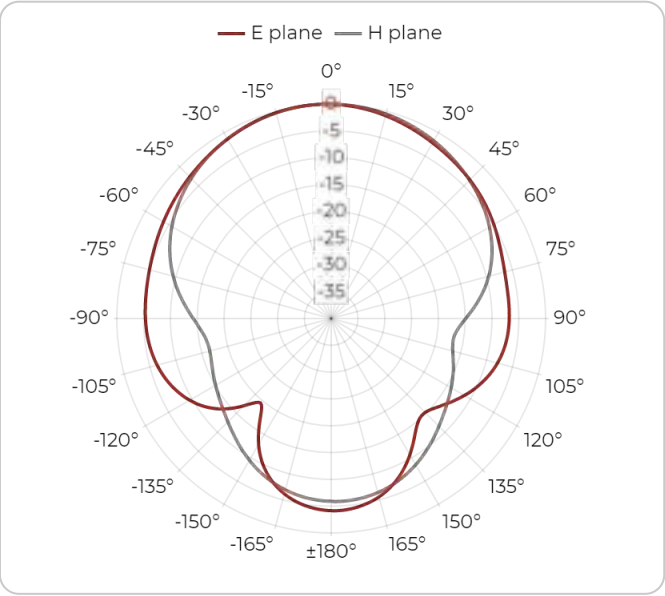


Radiation Patterns - Port A

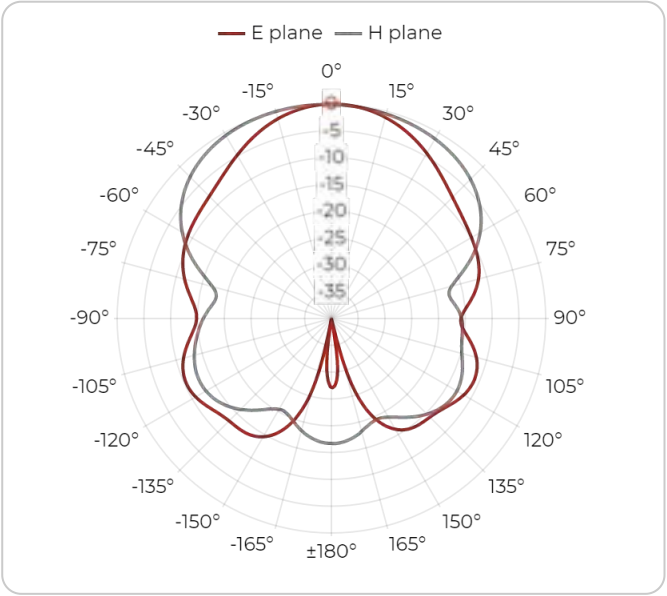
Port A, 0.4 GHz



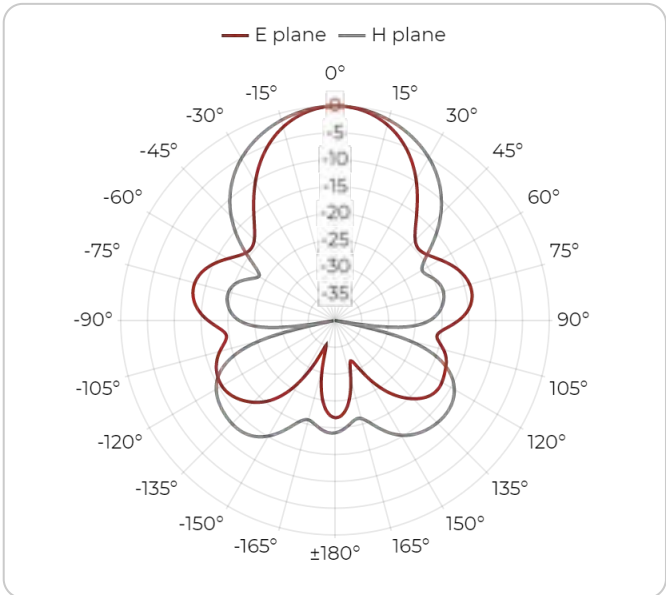
Port A, 0.6 GHz



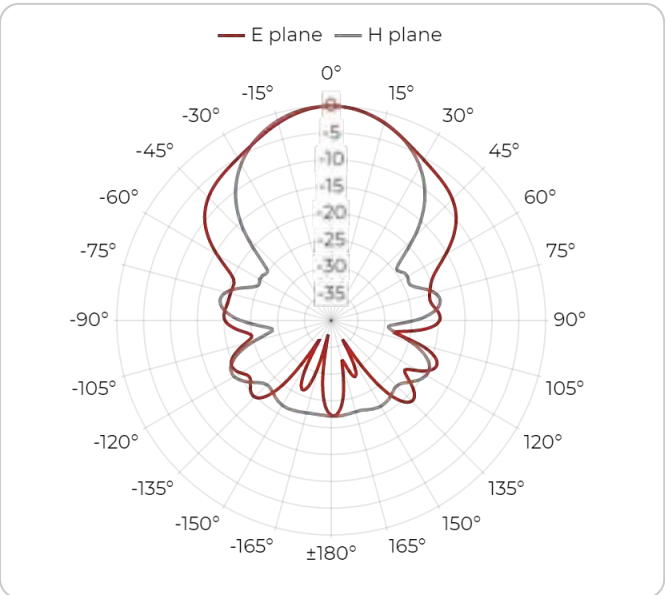
Port A, 1 GHz



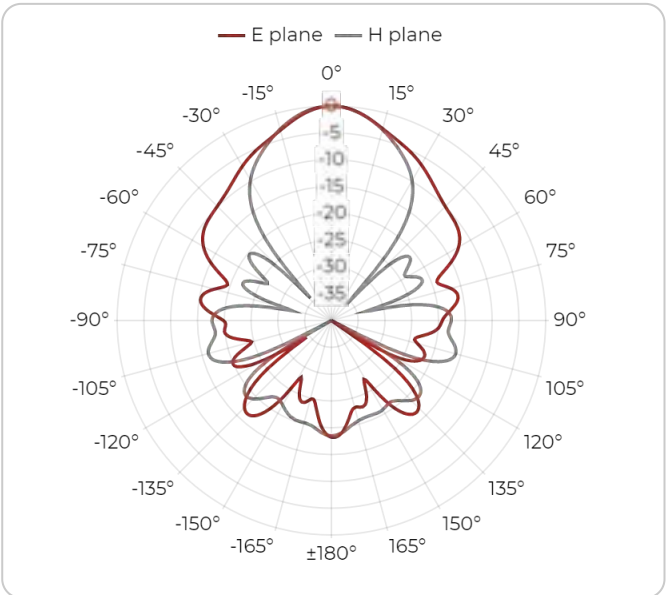
Port A, 1.4 GHz



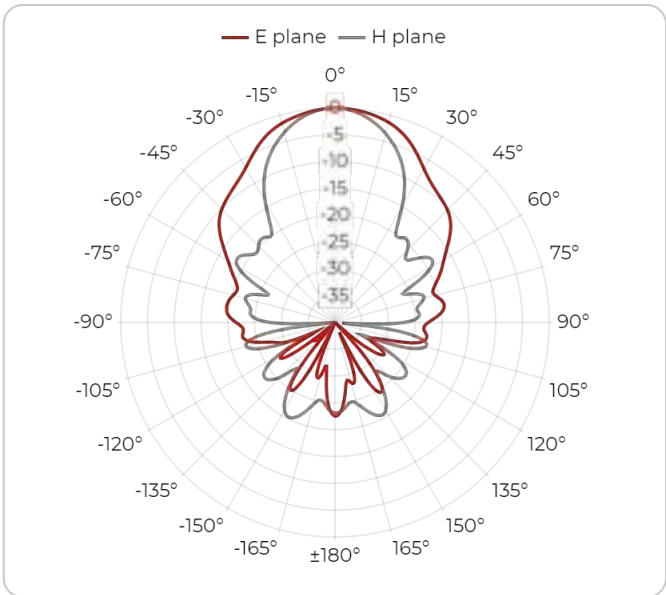
Port A, 1.8 GHz



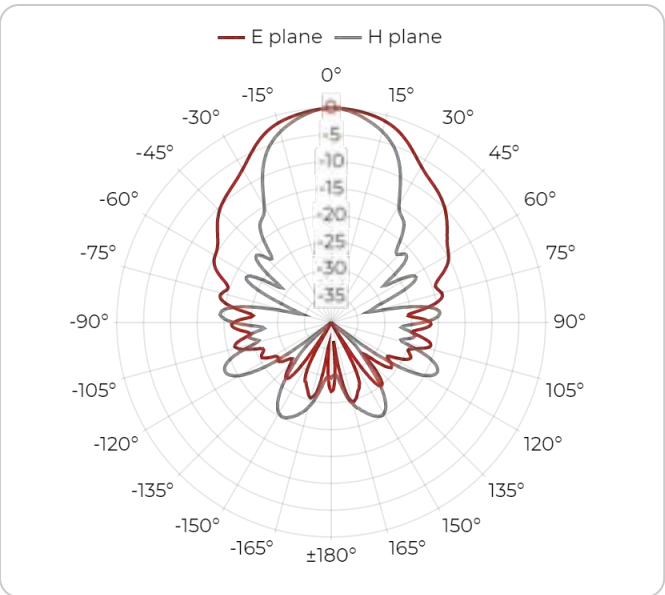
Port A, 2.4 GHz



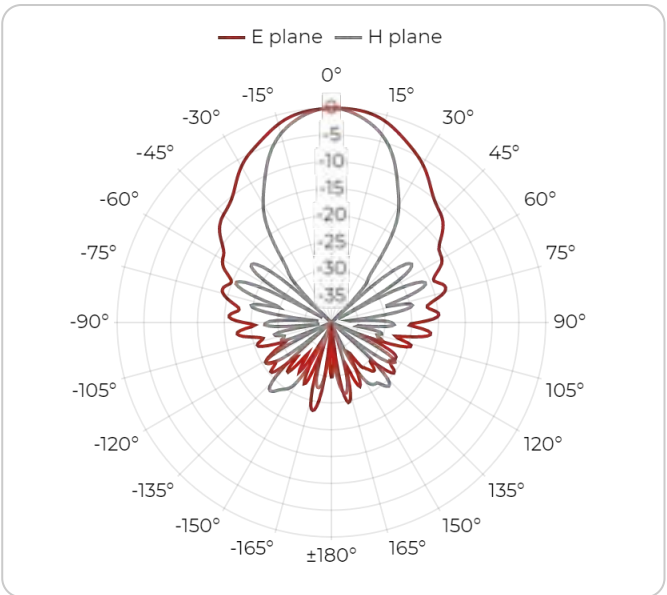
Port A, 3 GHz



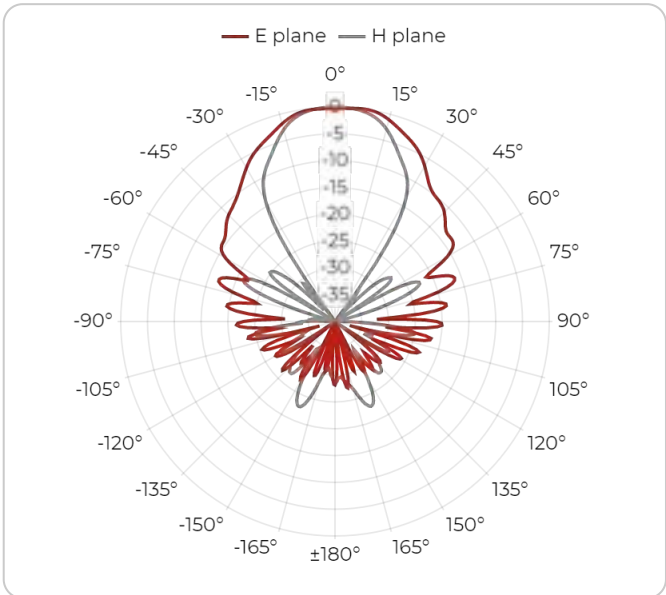
Port A, 3.6 GHz



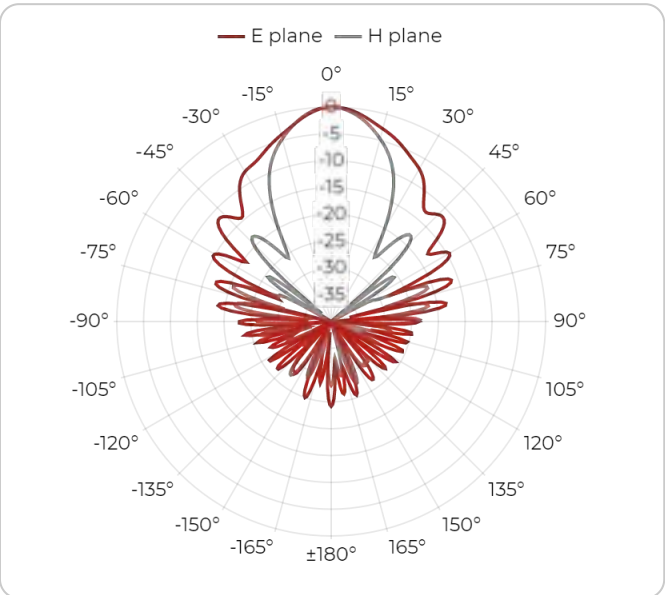
Port A, 4.2 GHz



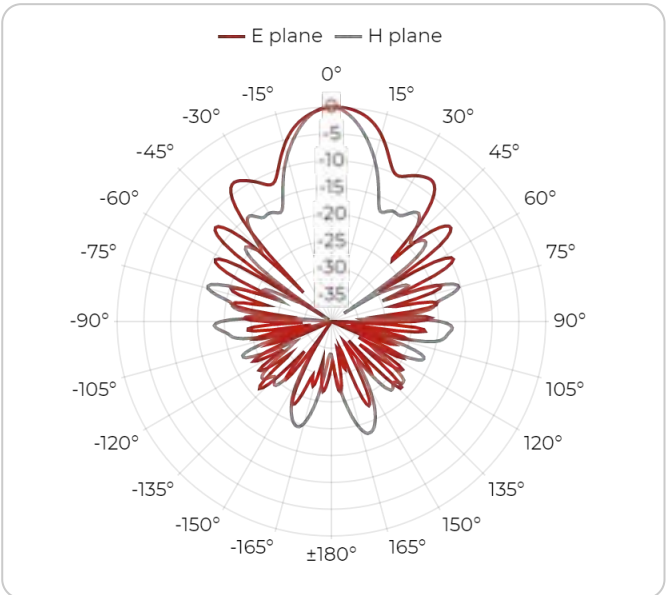
Port A, 4.8 GHz



Port A, 5.4 GHz

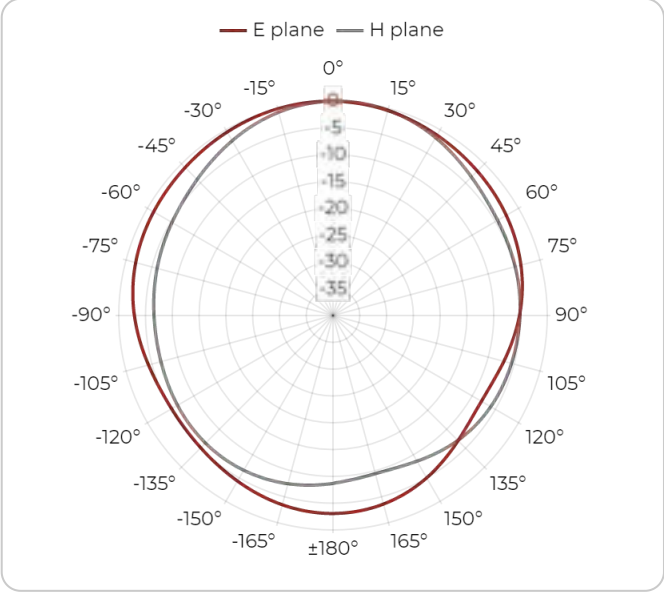


Port A, 6 GHz

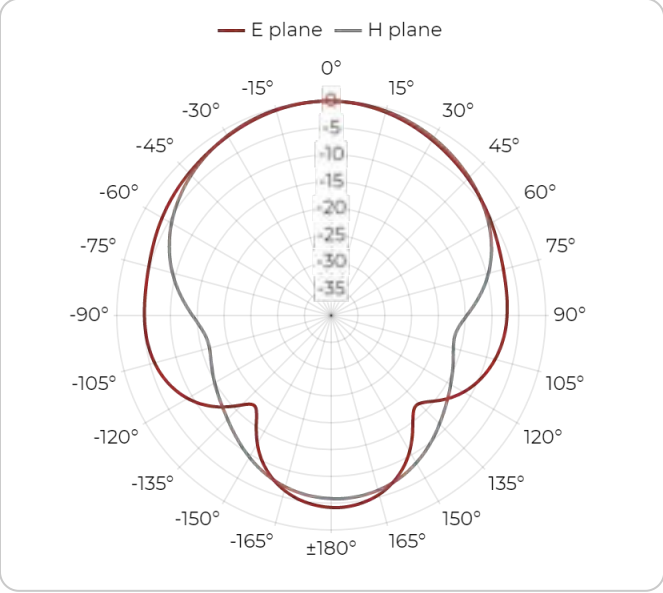


Radiation Patterns - Port B

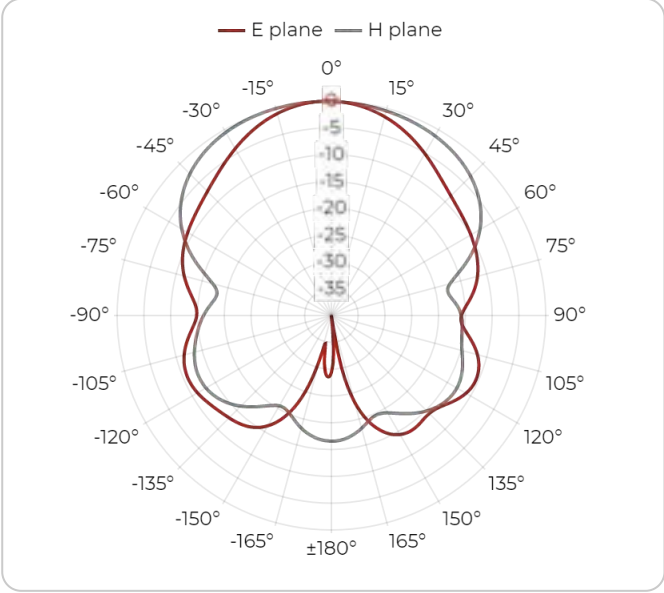
Port B, 0.4 GHz



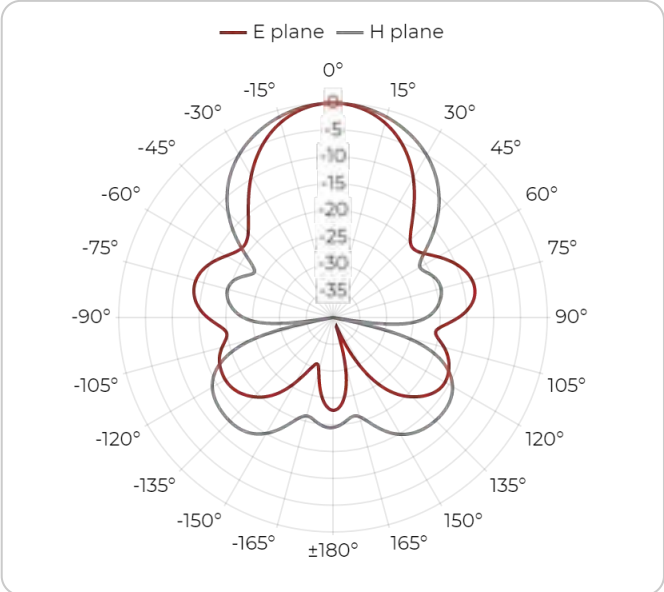
Port B, 0.6 GHz



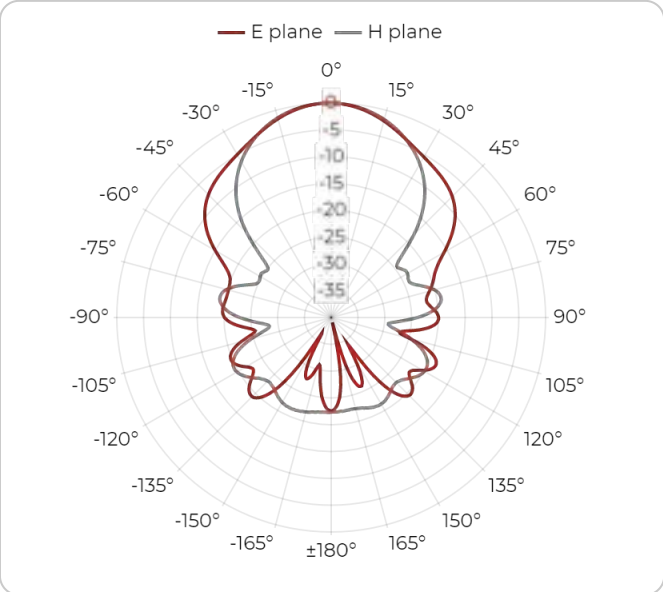
Port B, 1 GHz



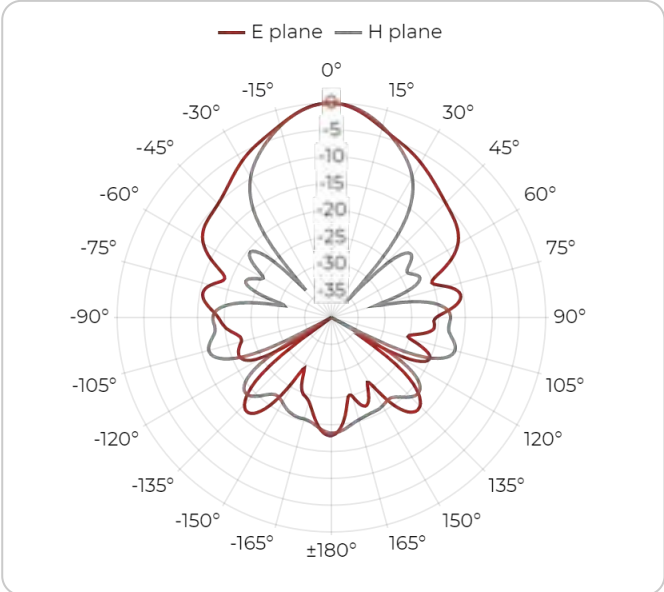
Port B, 1.4 GHz



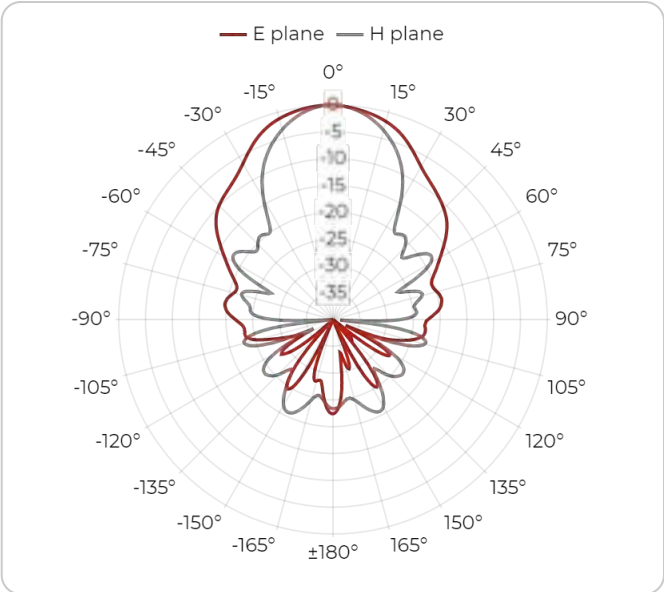
Port B, 1.8 GHz



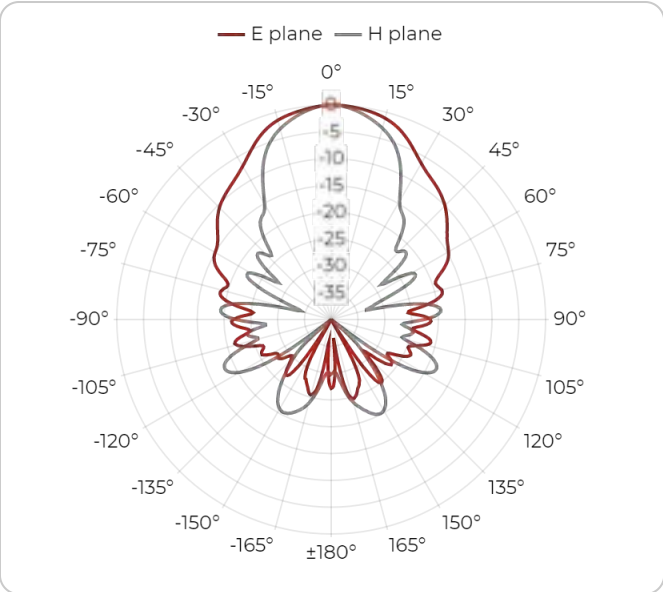
Port B, 2.4 GHz



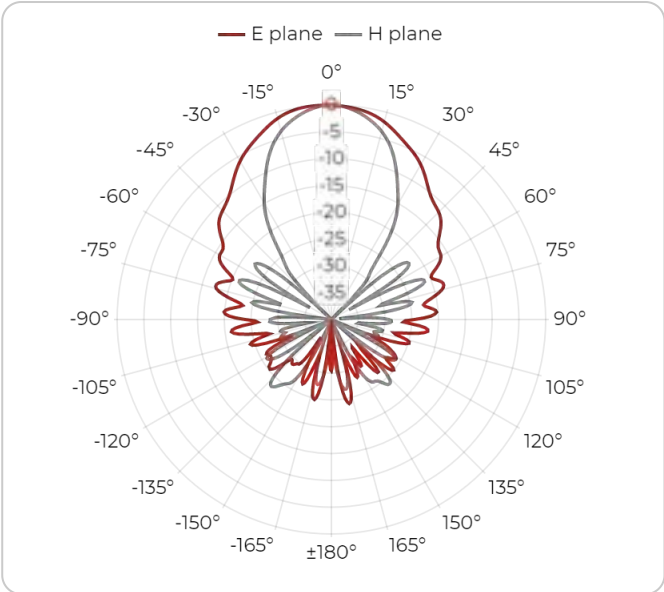
Port B, 3 GHz



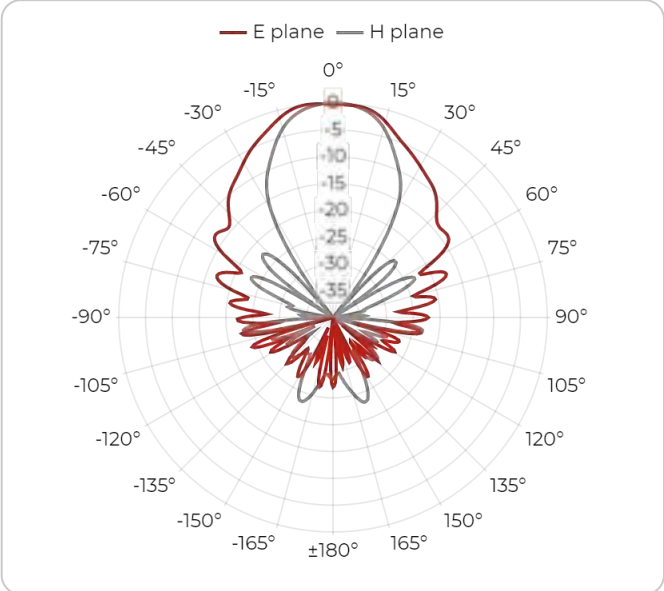
Port B, 3.6 GHz



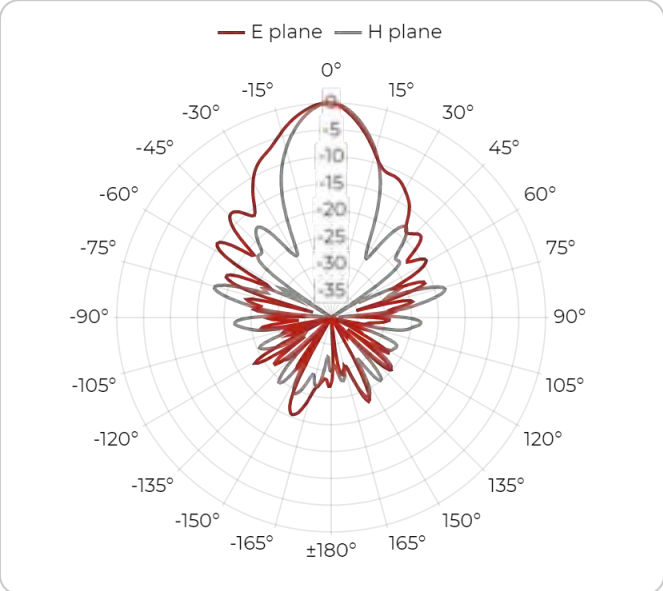
Port B, 4.2 GHz



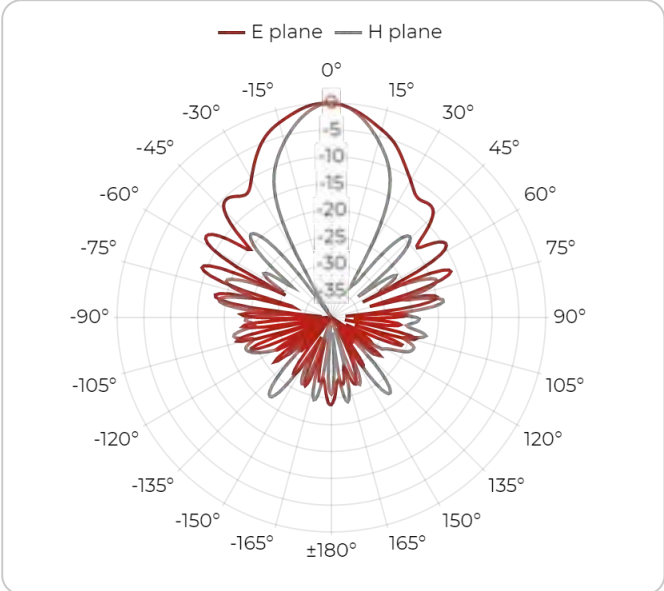
Port B, 4.8 GHz



Port B, 6 GHz



Port B, 5.4 GHz



Packaging and Accessories

What's in a box

- QRH400 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)

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/grh400/>

Data and specifications subject to change without notice.

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