



The QRH40C antenna combines small dimensions with high accuracy and perfect electrical parameters. Now improved by a patented antenna lens that increases the gain up to 20dB while keeping a small size and low weight.

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
- Covers 5G frequency band
- Suitable for EMC/EMI applications



Design and Surface Treatment

- Corrosion-resistant coating
- Includes standard mount



Manufacturing Technology

- High quality 2.92mm type coaxial connector



Product Packaging Includes

- Antenna with lens
- Adapter with ¼ inch inner thread, supplied with antenna

Product Parameters

PRODUCT IDENTIFICATION

Product Name	QRH40C
Product Category	Quad Ridged Horn Antenna

ELECTRICAL SPECIFICATIONS

Frequency Range	4 GHz – 40 GHz
VSWR (max.)	2.4
VSWR (avg.)	1.4
Impedance	50 Ohm
Power (CW / Peak)	10 W / 20 W
Antenna Factor	35 – 45 dB/m
Port Isolation	-28 dB
Polarization	Dual Linear, Circular (with hybrid)

PHYSICAL SPECIFICATIONS

Width	53 mm (2.087 in)
Height	90 mm (3.543 in)
Depth	53 mm (2.087 in)

OPERATING CONDITIONS

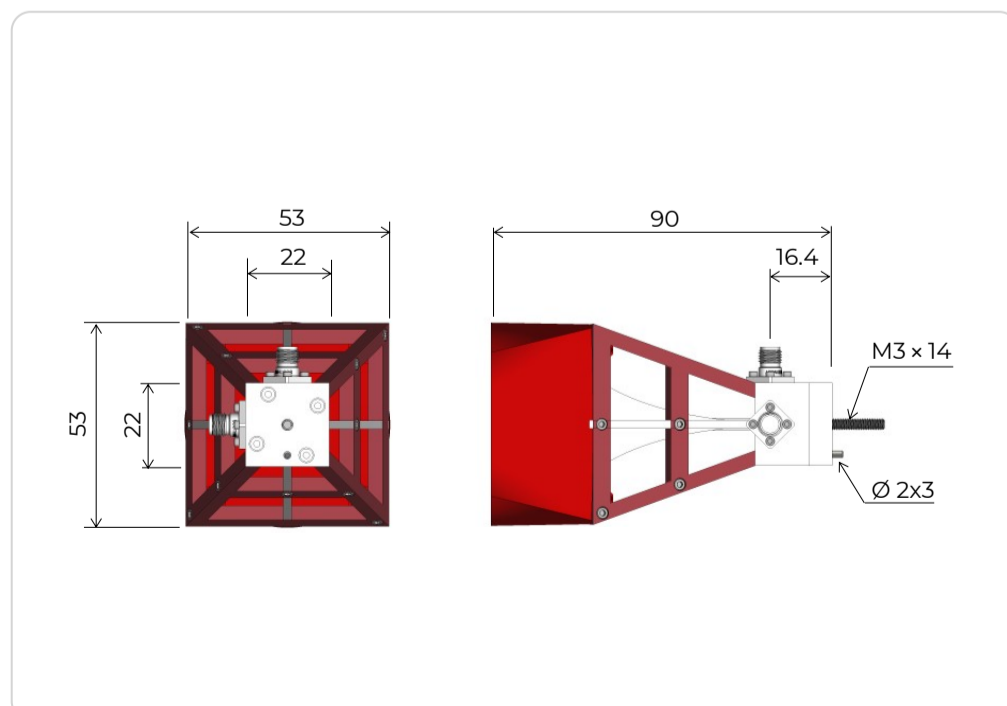
Rated Temperature Range	0°C – +50°C
Storage Temperature Range	-20°C – +70°C

MOUNTING FLANGE

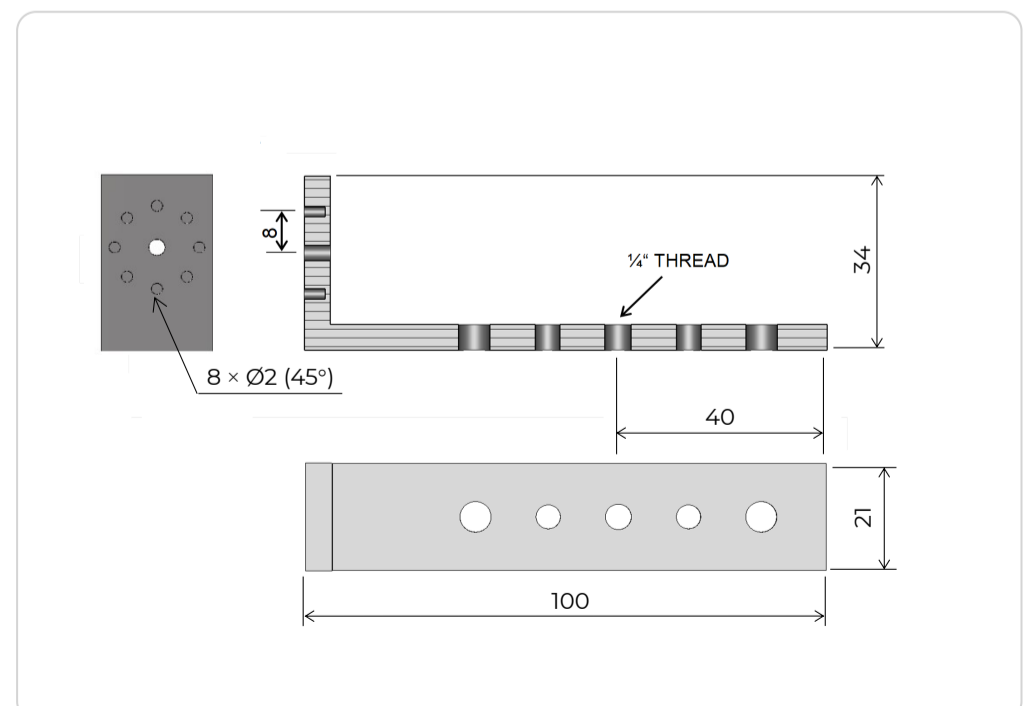
Mounting	Adapter with ¼ inch inner thread, supplied with antenna
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Mechanical Drawings

Antenna



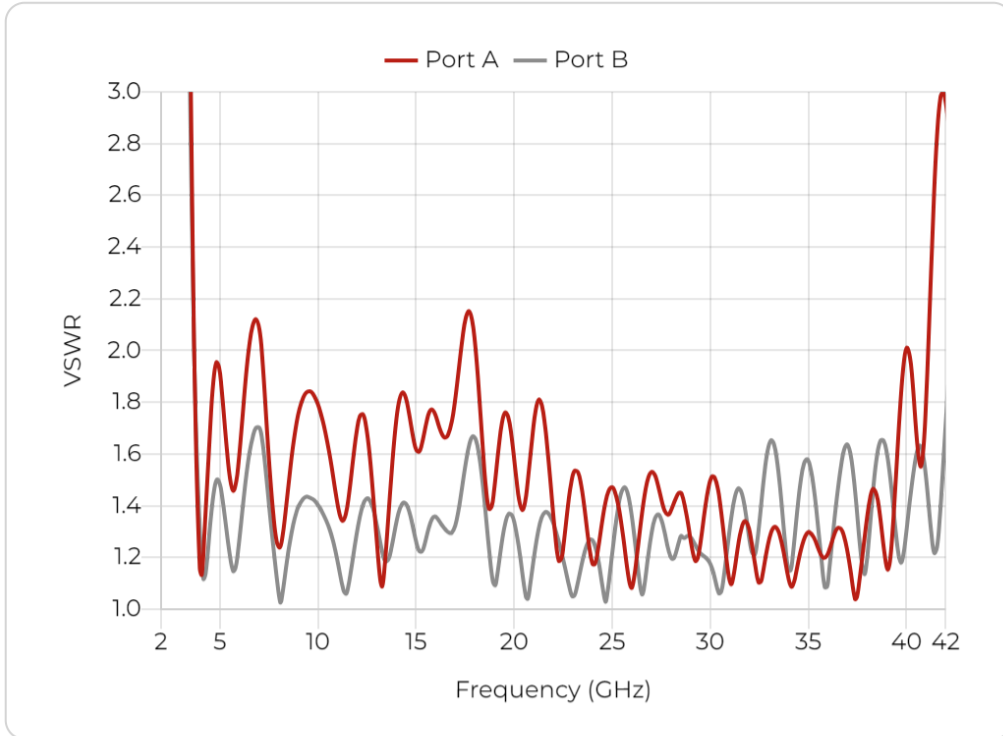
Mounting flange



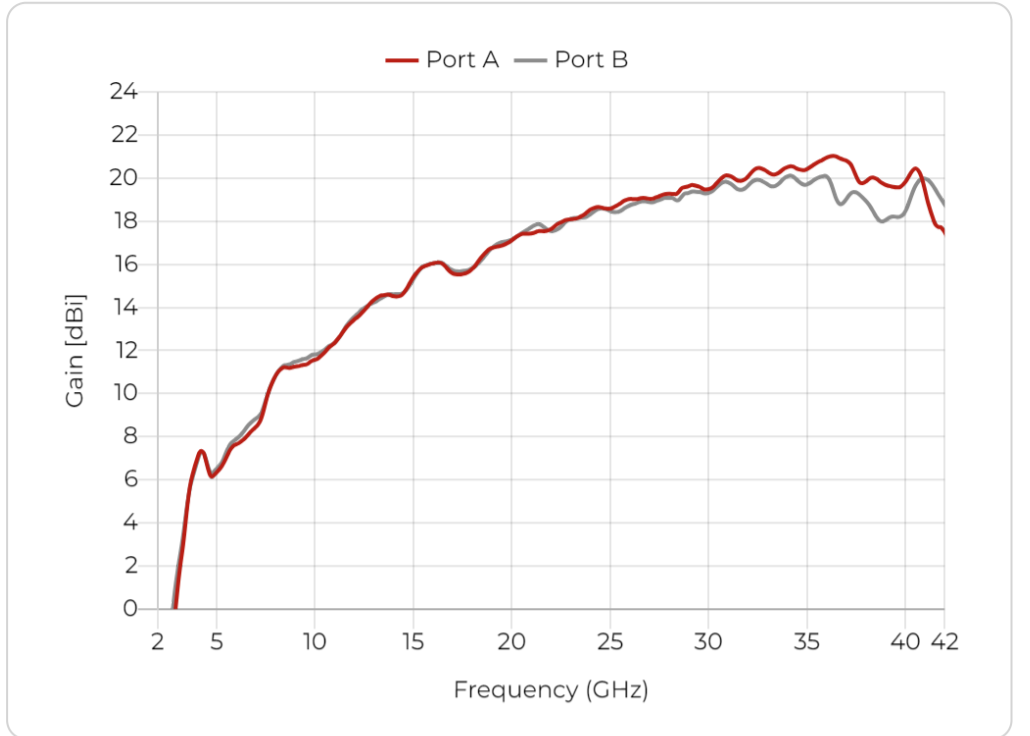
Parameters and Performance

Typical parameters

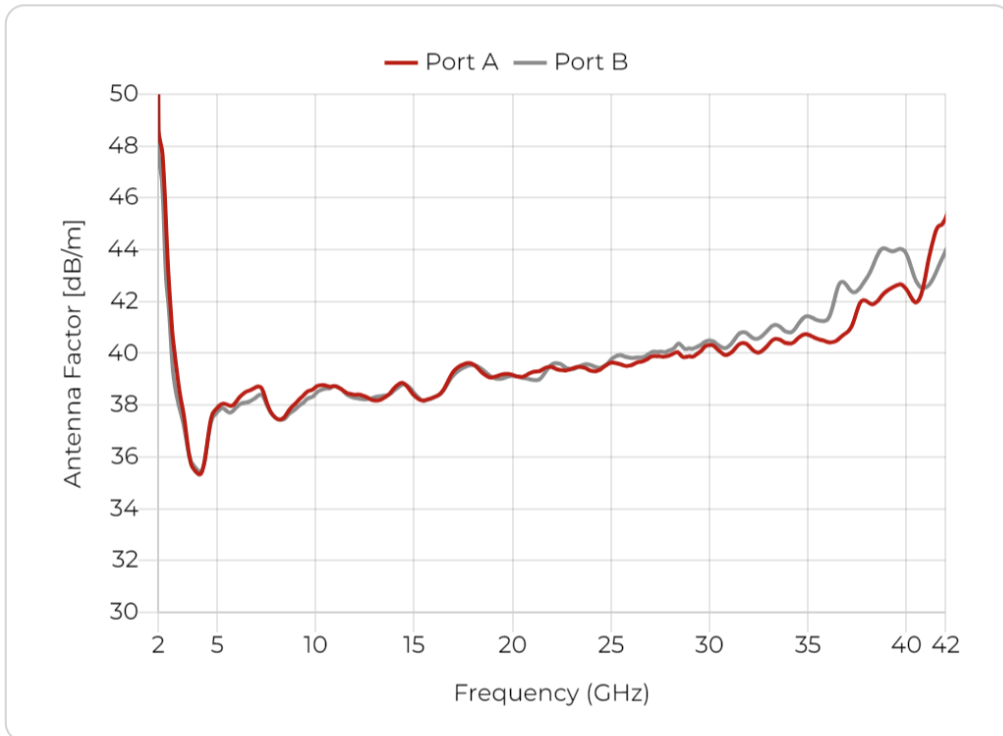
VSWR



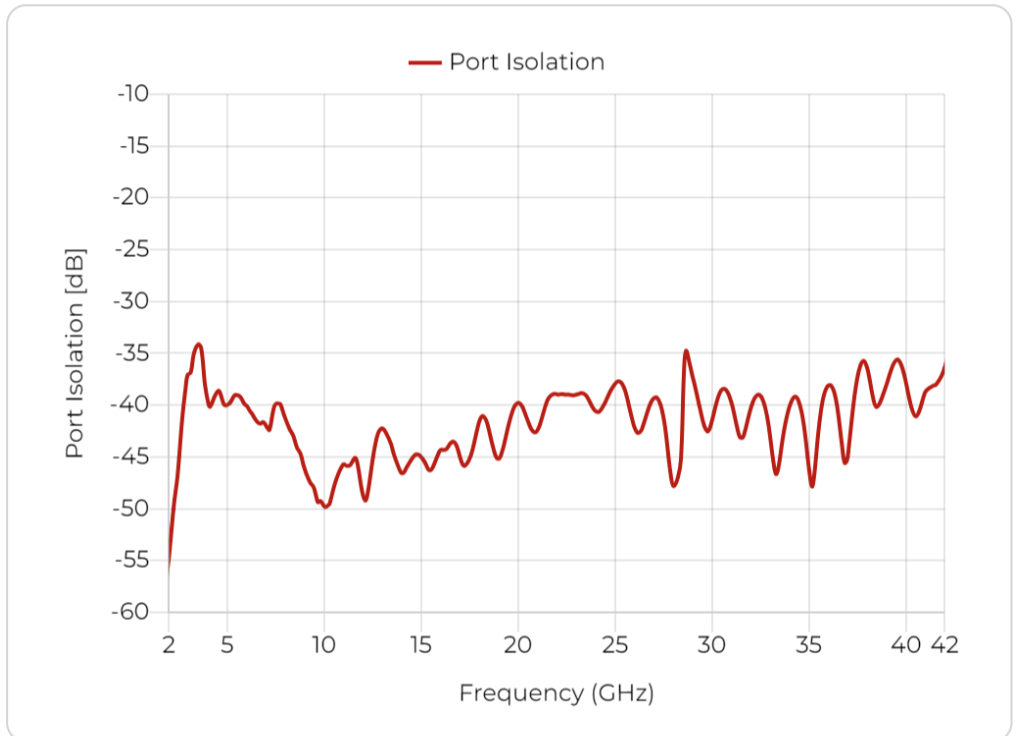
Gain



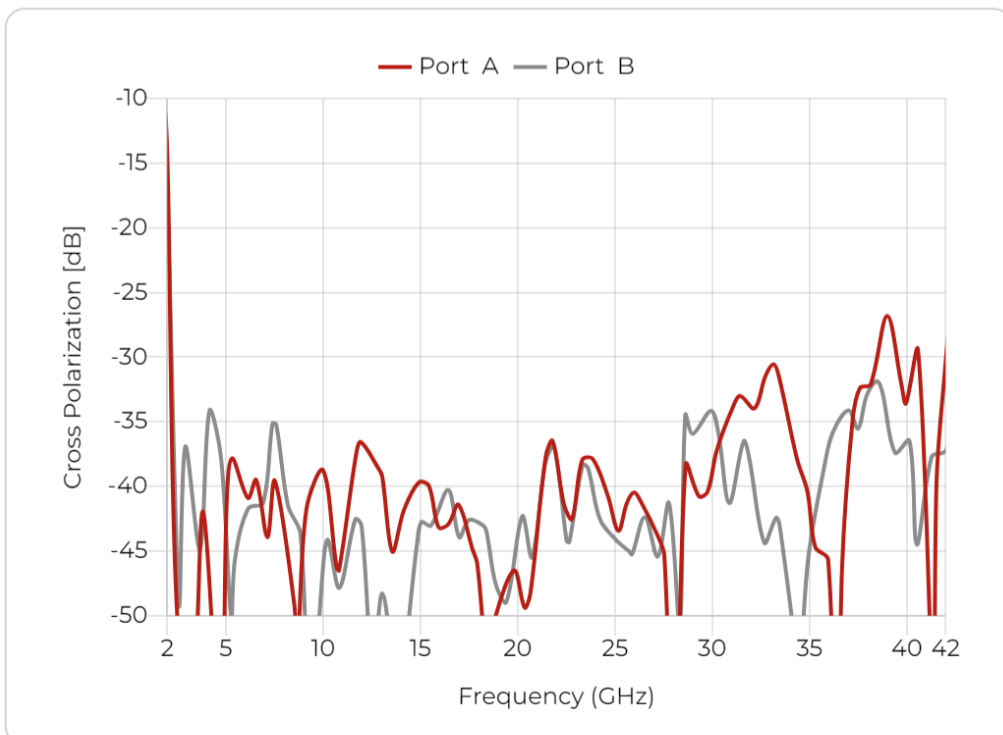
Antenna Factor



Port Isolation

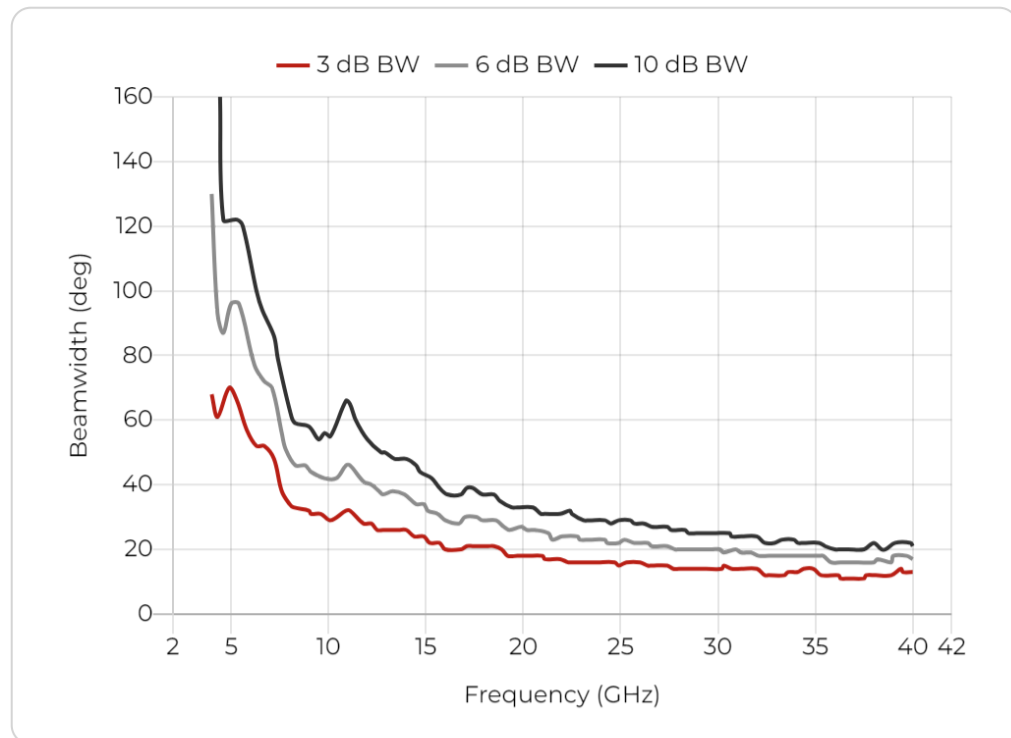


Cross Polarization

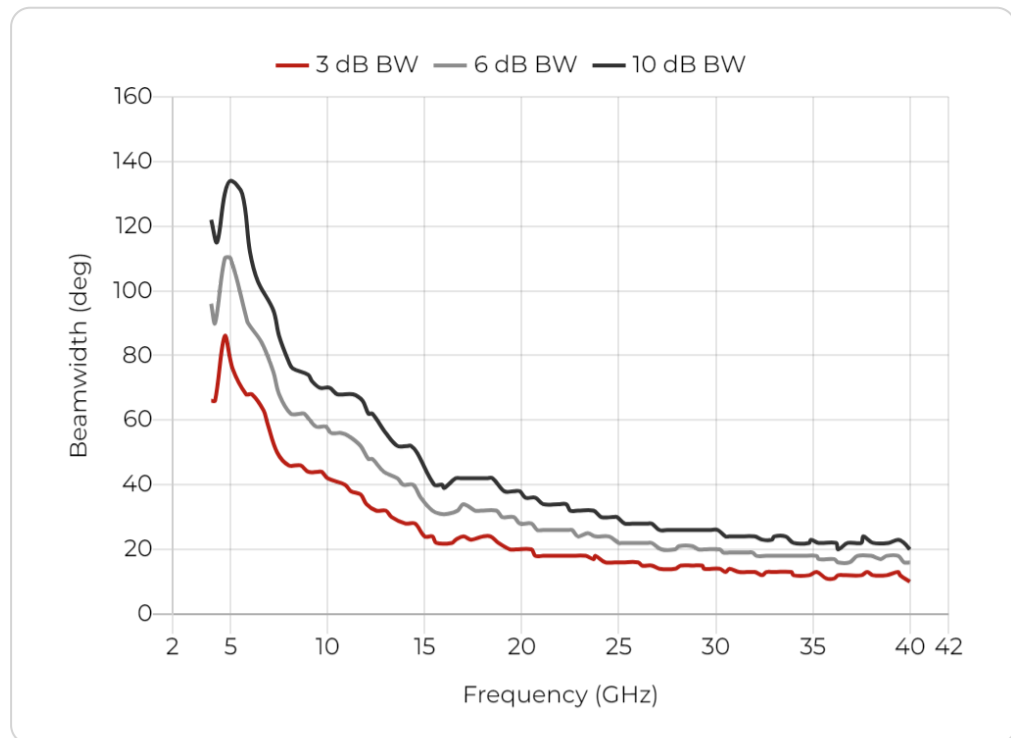


Beamwidth

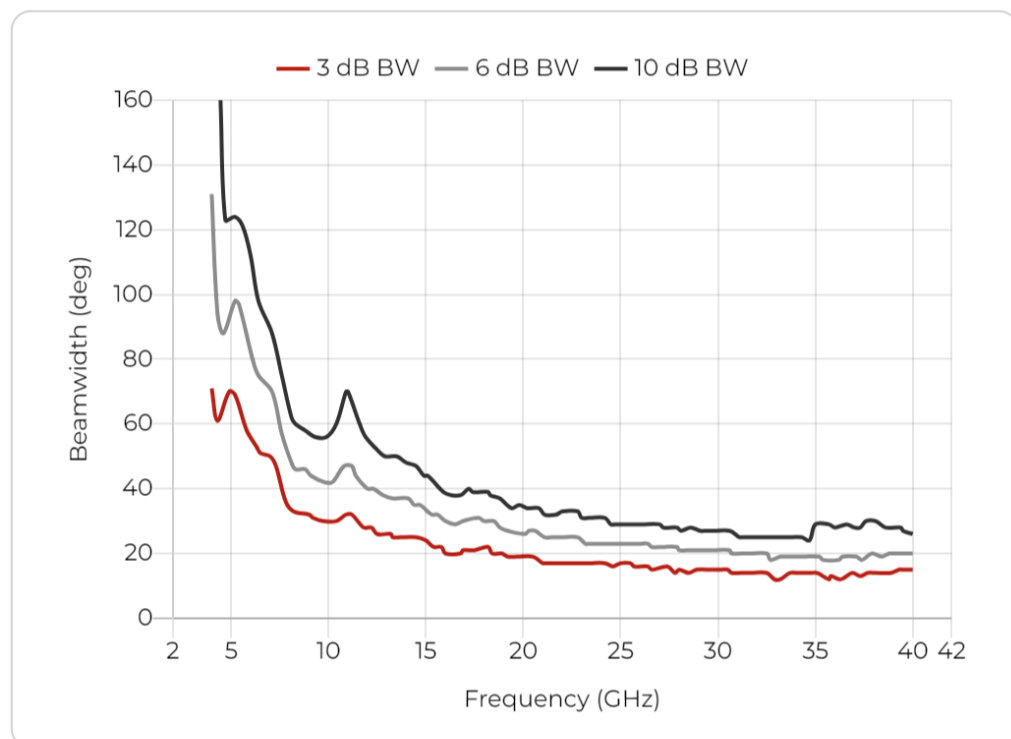
Port A, E plane



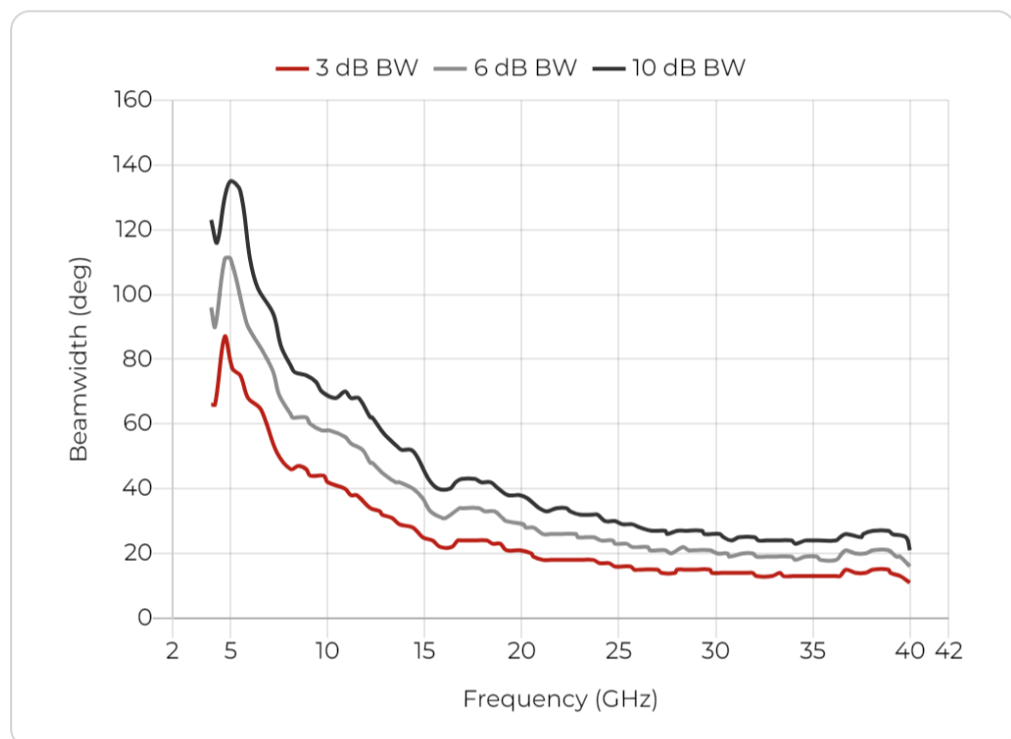
Port A, H plane



Port B, E plane

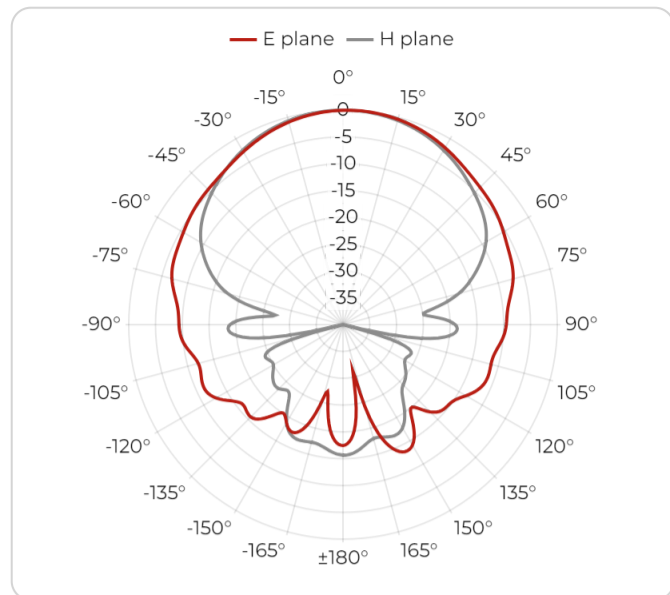


Port B, H plane

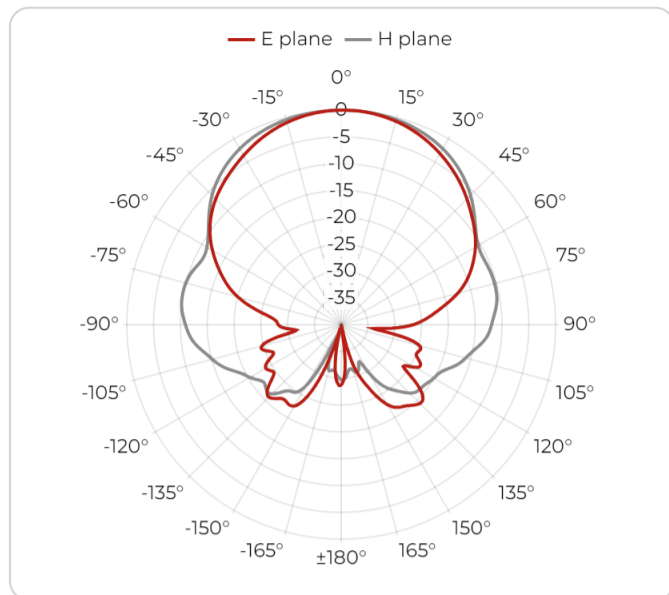


Radiation Patterns - Port A

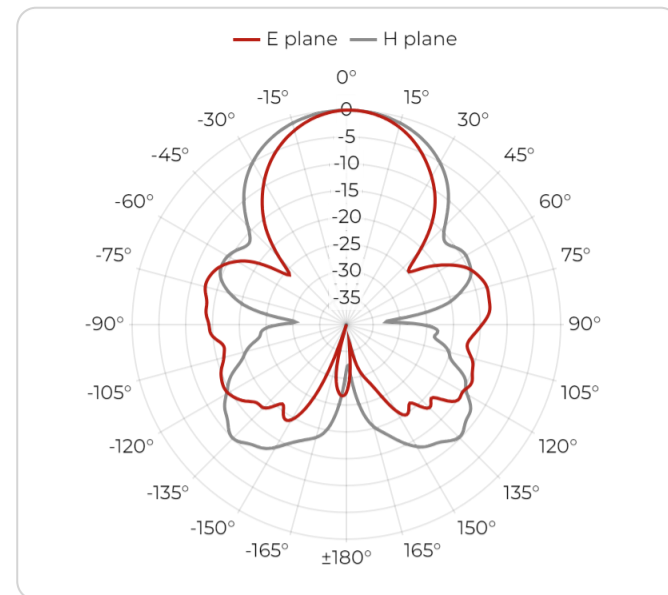
Port A, 4 GHz



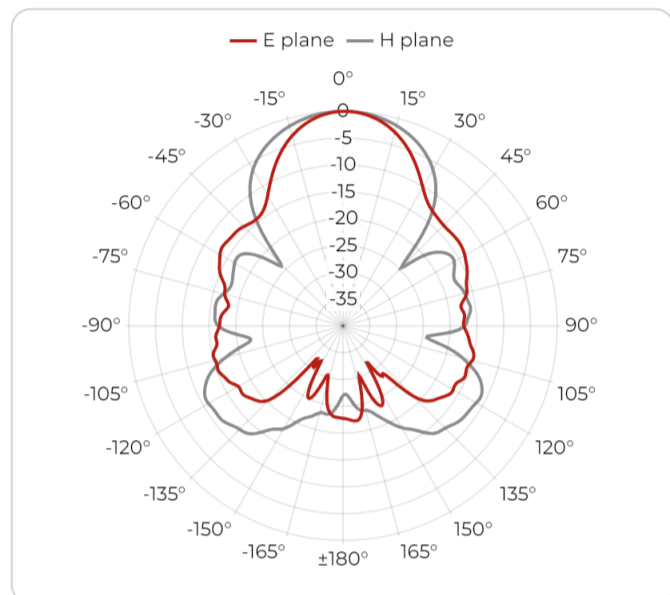
Port A, 6 GHz



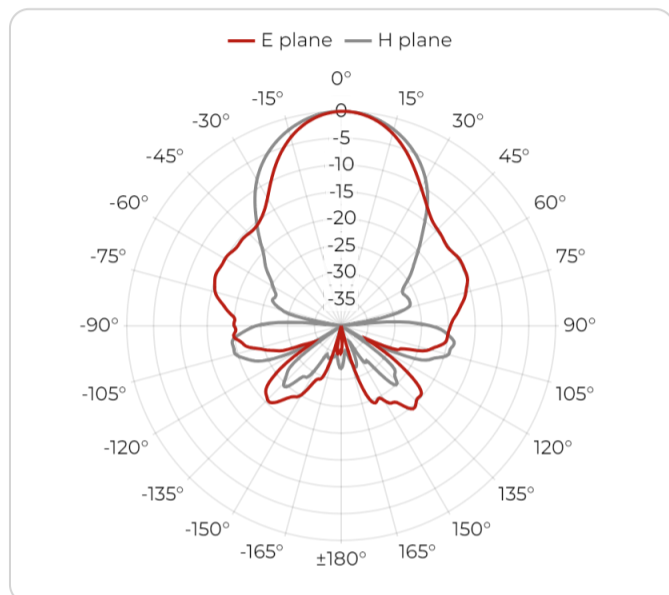
Port A, 8 GHz



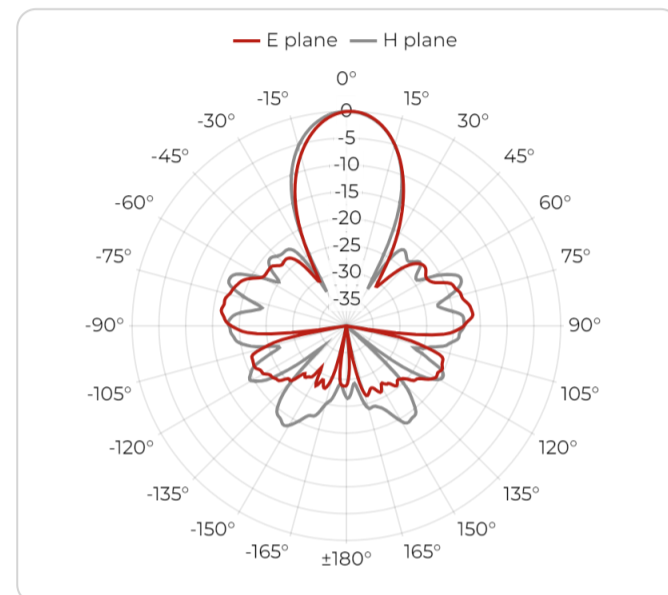
Port A, 10 GHz



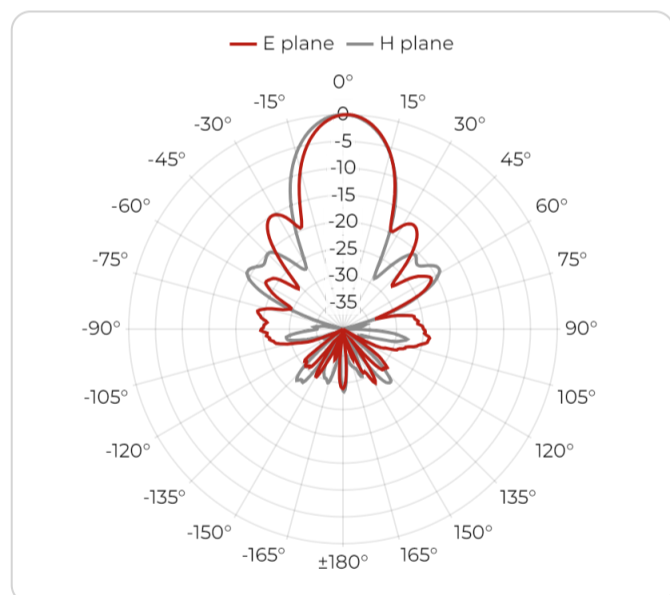
Port A, 12 GHz



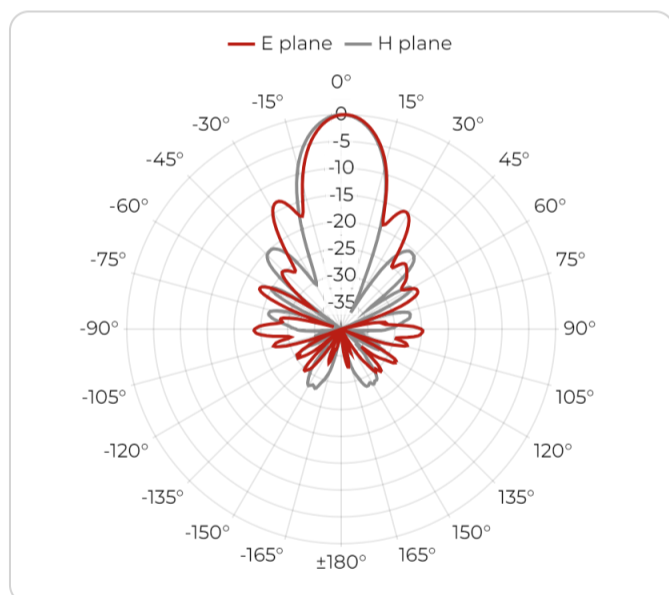
Port A, 16 GHz



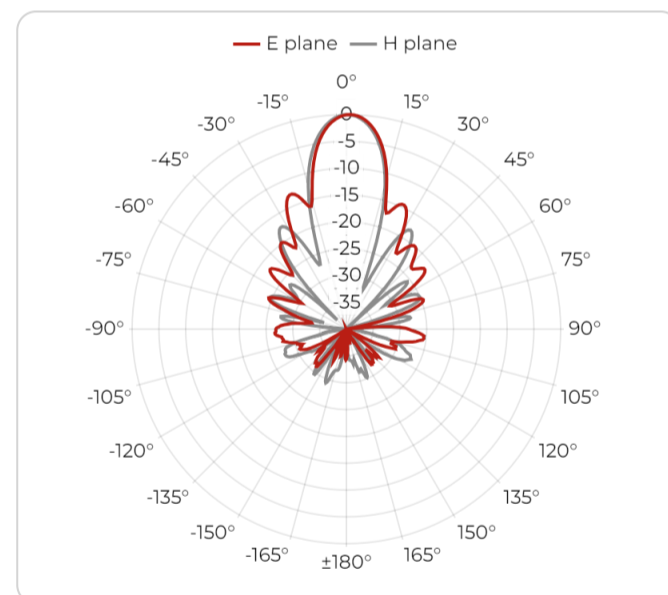
Port A, 20 GHz



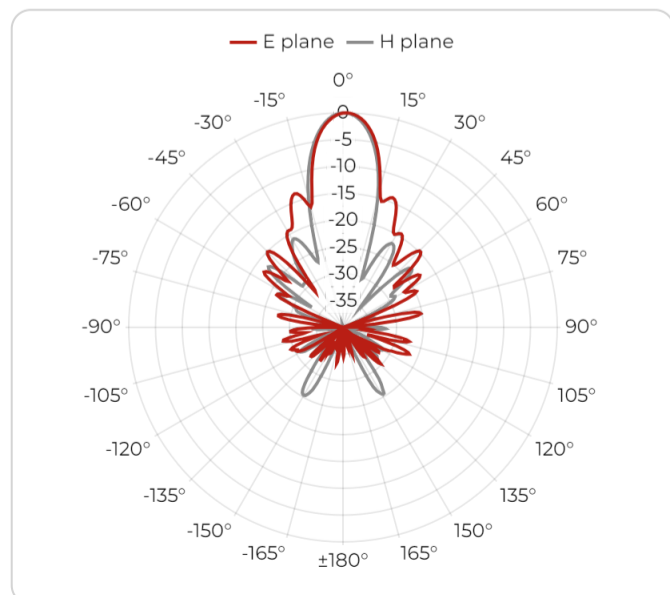
Port A, 24 GHz



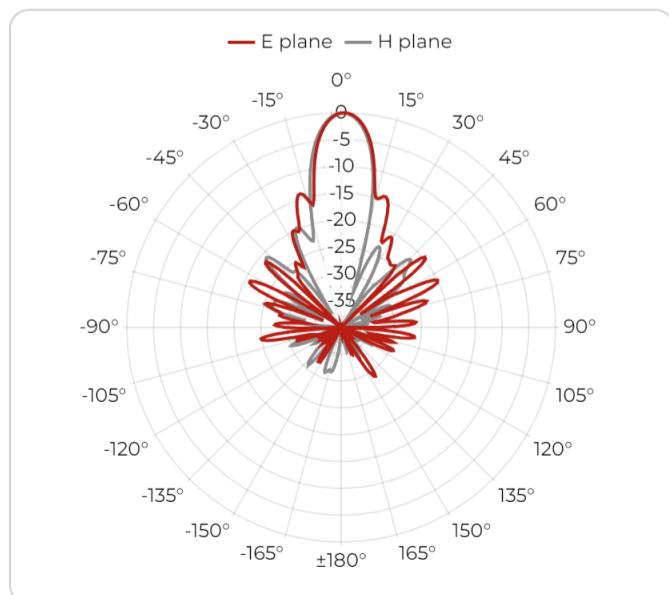
Port A, 28 GHz



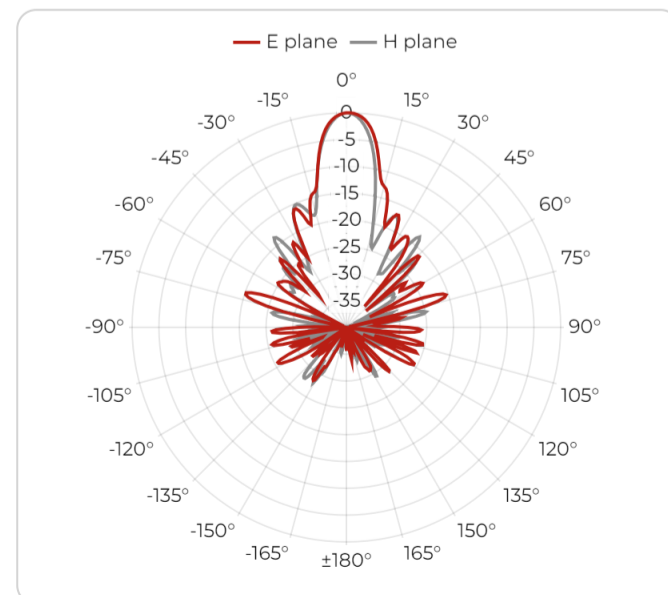
Port A, 32 GHz



Port A, 36 GHz

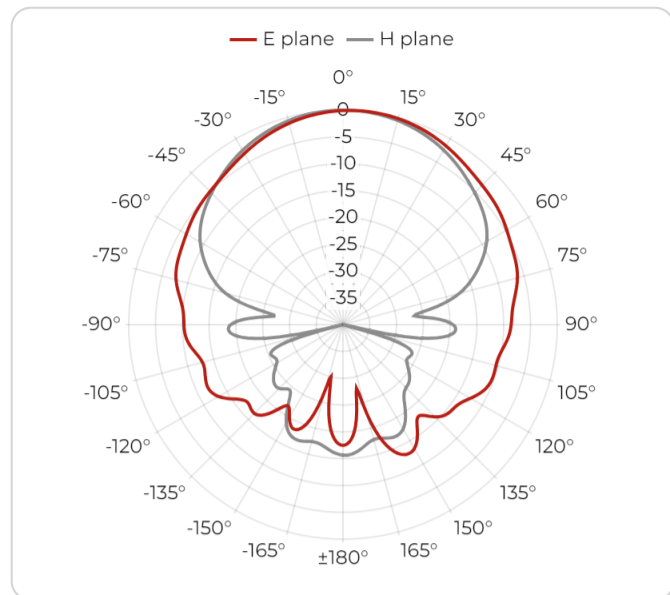


Port A, 40 GHz

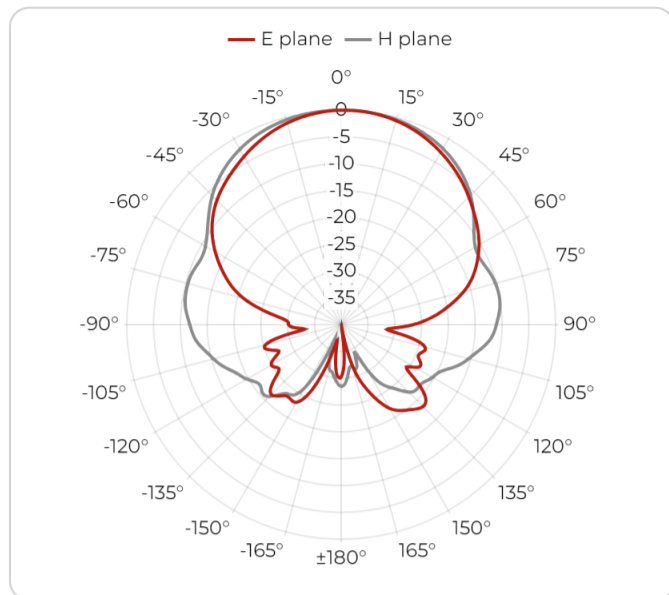


Radiation Patterns - Port B

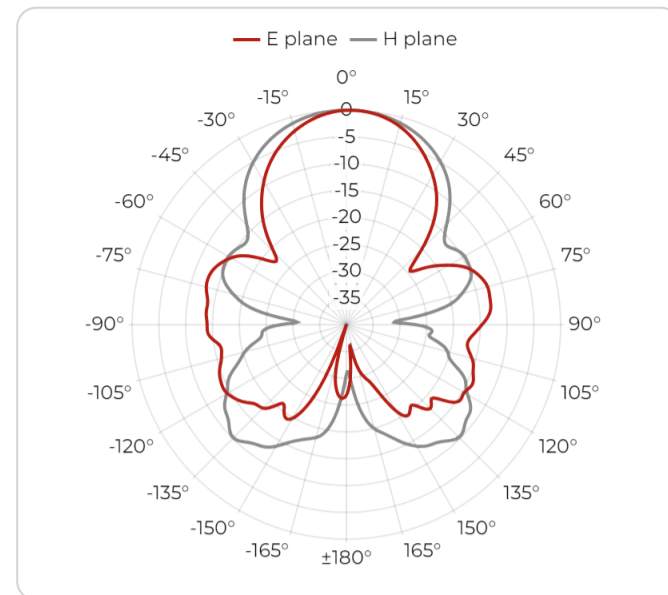
Port B, 4 GHz



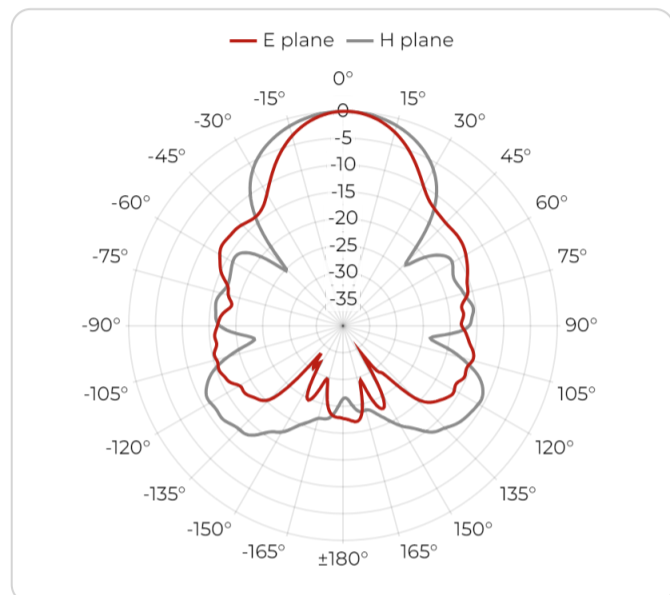
Port B, 6 GHz



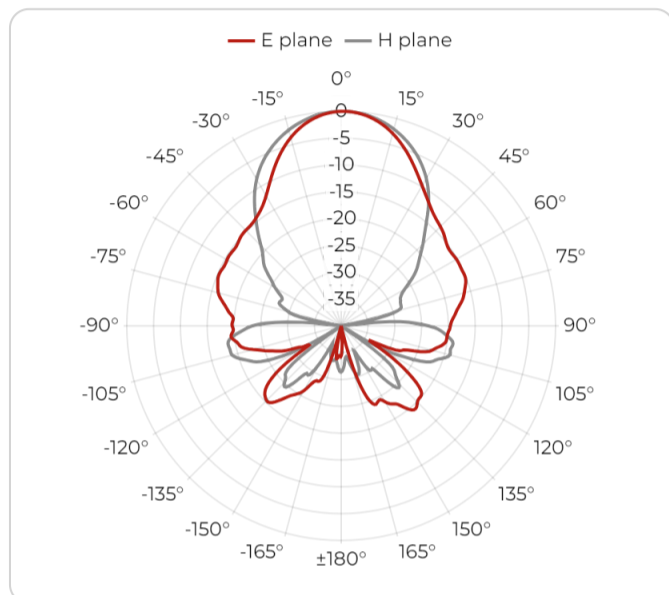
Port B, 8 GHz



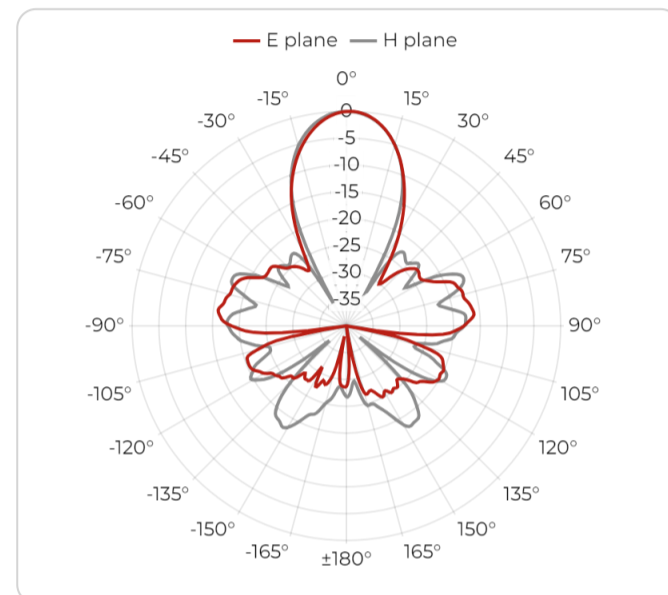
Port B, 10 GHz



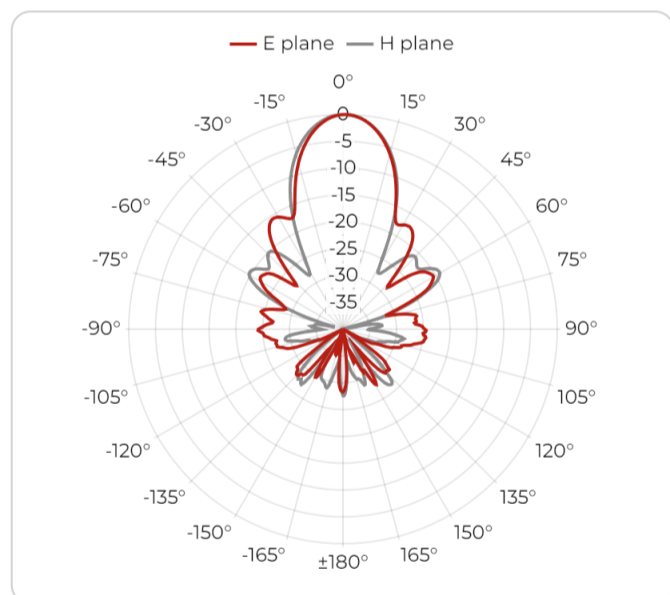
Port B, 12 GHz



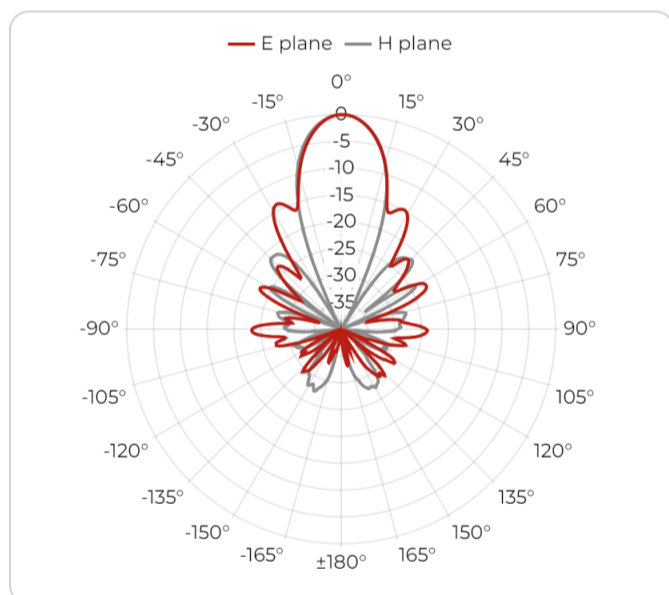
Port B, 16 GHz



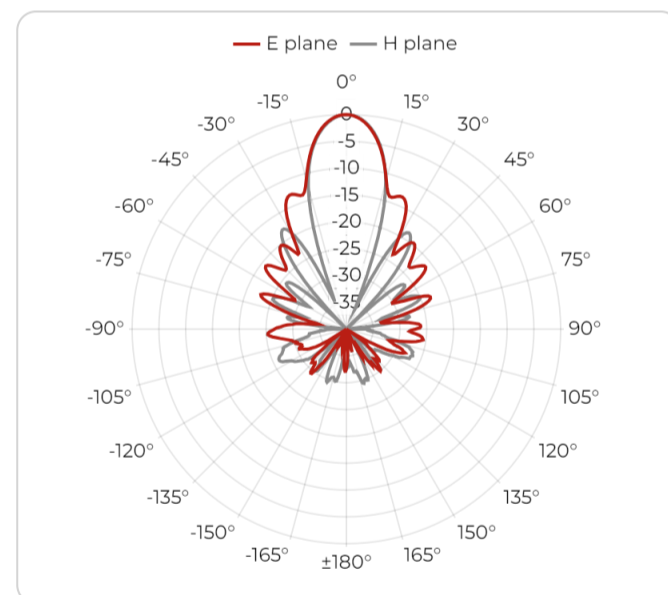
Port B, 20 GHz



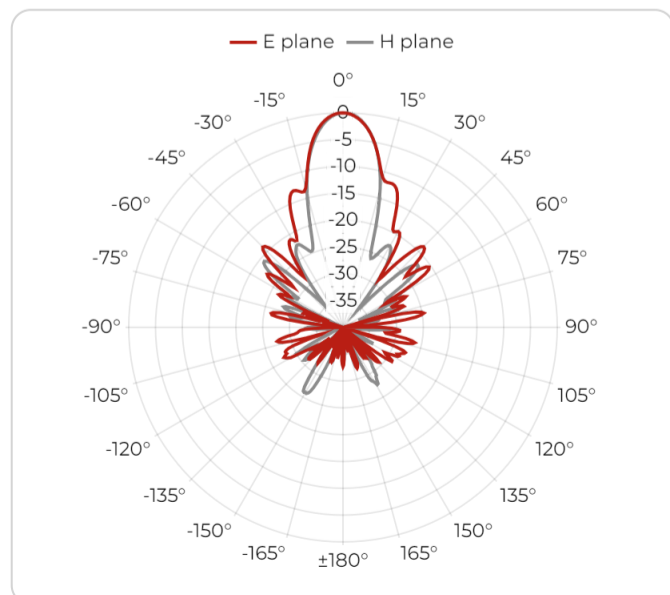
Port B, 24 GHz



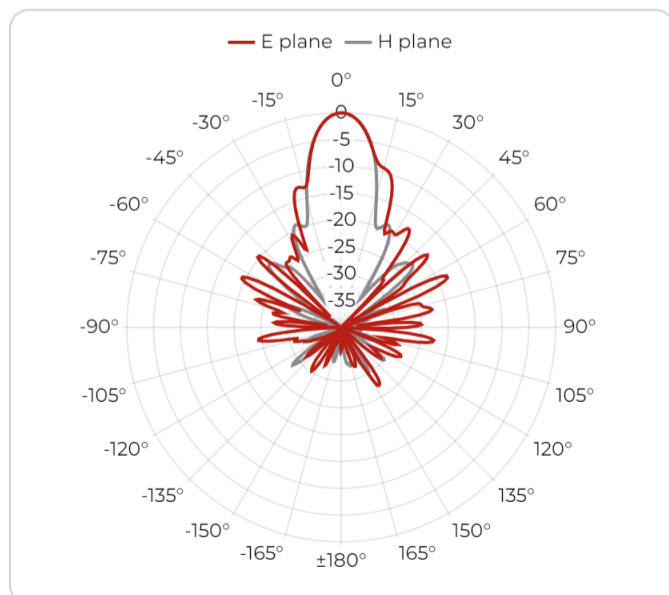
Port B, 28 GHz



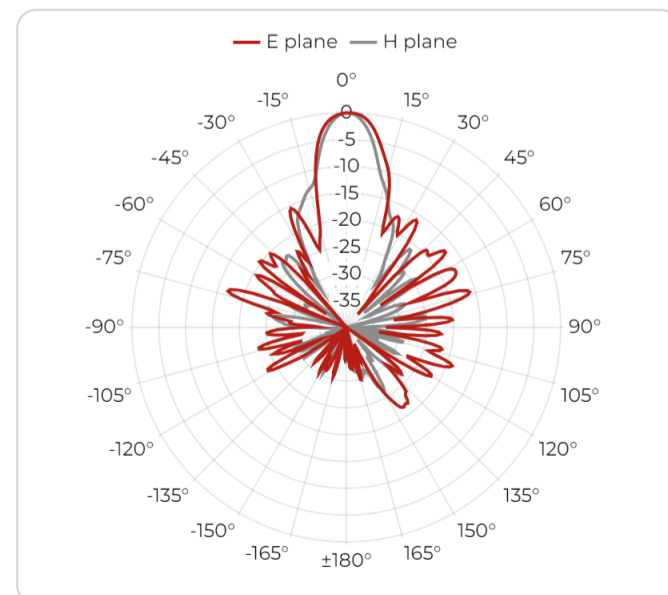
Port B, 32 GHz



Port B, 36 GHz



Port B, 40 GHz



Packaging and Accessories

What's in a box

- QRH40C 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-M3 Antenna Fixture](#)
- [PAS2022 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/grh40c/>

Data and specifications subject to change without notice.

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📍 Address

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

✉ E-mail

info@rfspin.com

📞 Phone

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