



Quad Ridged Horn Antenna

QRH300 is dual-polarized broadband antenna with a frequency from 300 MHz. 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.

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

- 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	QRH300
Product Category	Quad Ridged Horn Antenna

ELECTRICAL SPECIFICATIONS

Frequency Range	300 MHz – 4.5 GHz
VSWR (max.)	2.2
VSWR (avg.)	1.4
Impedance	50 Ohm
Connector	N
Power (CW / Peak)	400 W / 750 W
Antenna Factor	15 – 30 dB/m
Port Isolation	-32 dB
Polarization	Dual Linear, Circular (with hybrid)

PHYSICAL SPECIFICATIONS

Width	450 mm (17.717 in)
Height	570 mm (22.441 in)
Depth	450 mm (17.717 in)
Weight	9 kg (19.842 lb)

OPERATING CONDITIONS

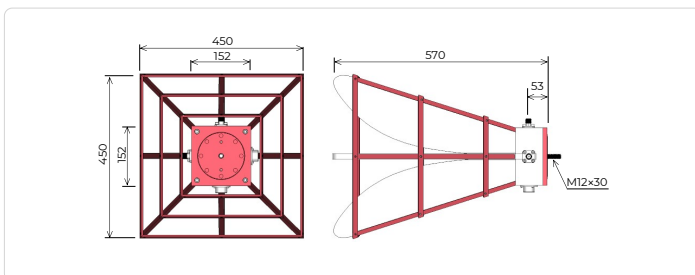
Rated Temperature Range	0°C – +50°C
Storage Temperature Range	-20°C – +70°C

MOUNTING FLANGE

Mounting	Universal antenna mount
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Mechanical Drawings

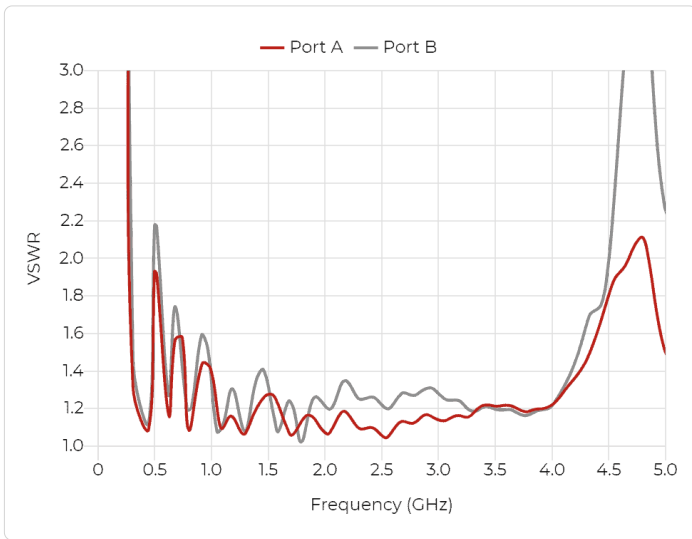
Antenna



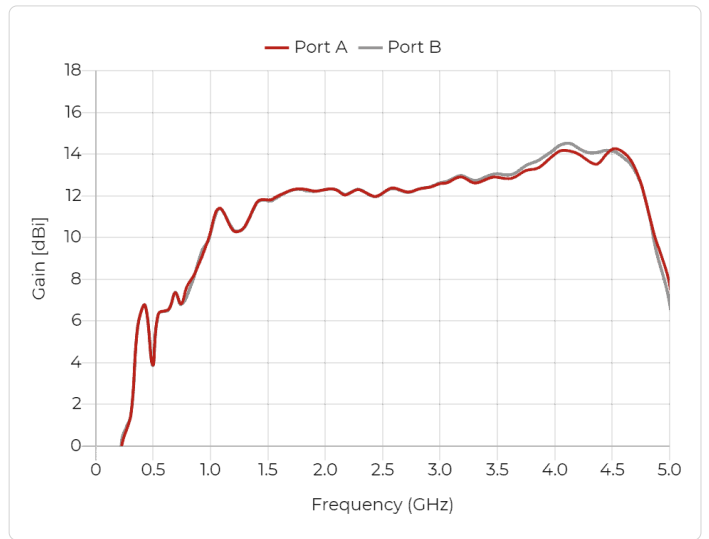
Parameters and Performance

Typical parameters

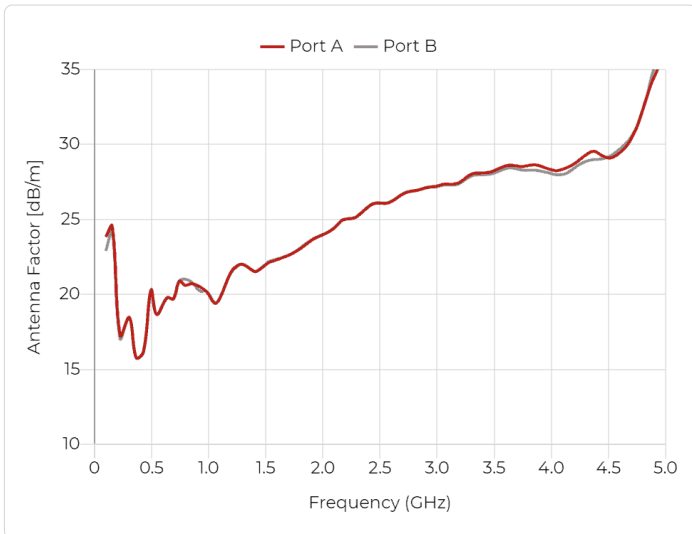
VSWR



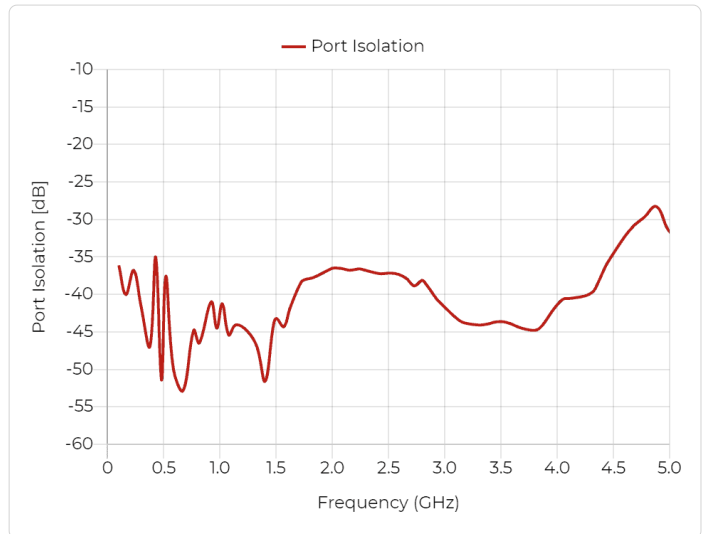
Gain



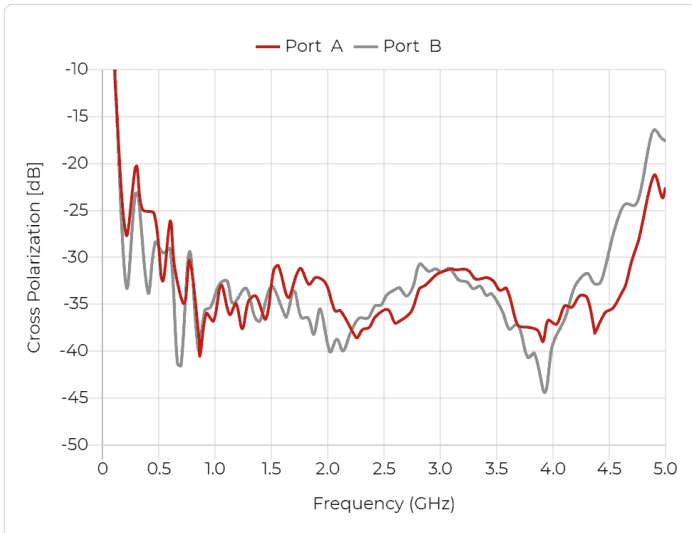
Antenna Factor



Port Isolation

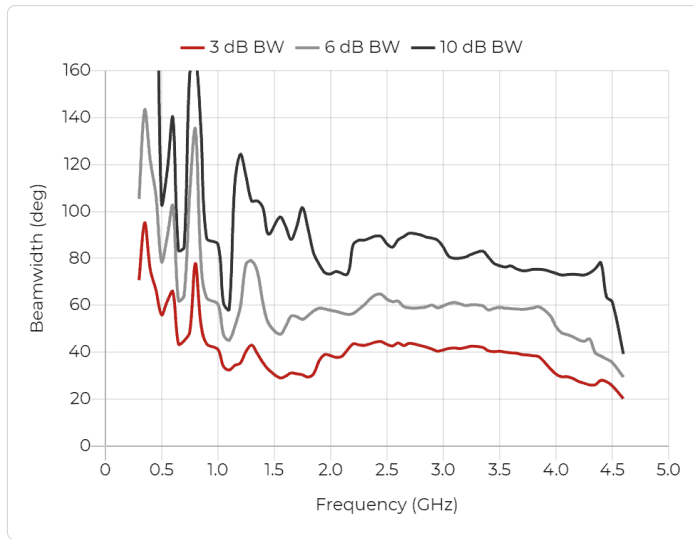


Cross Polarization

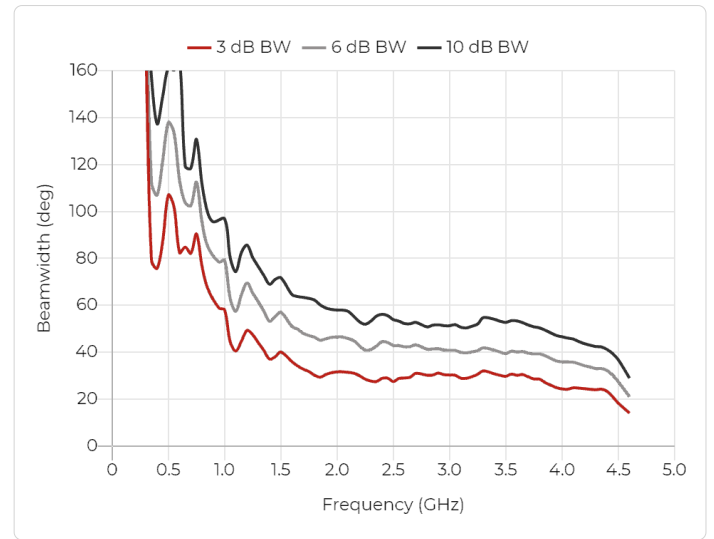


Beamwidth

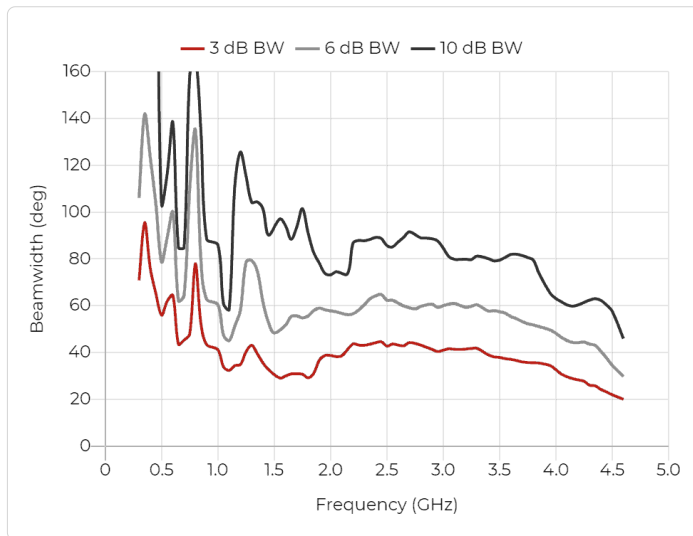
Port A, E plane



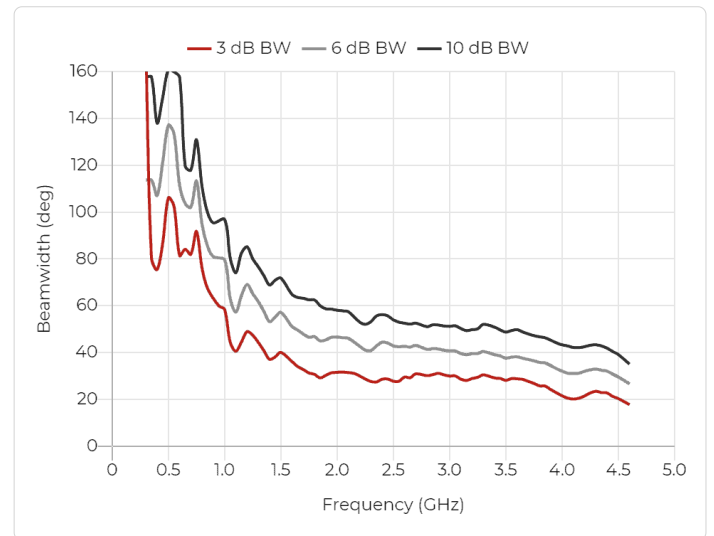
Port A, H plane



Port B, E plane

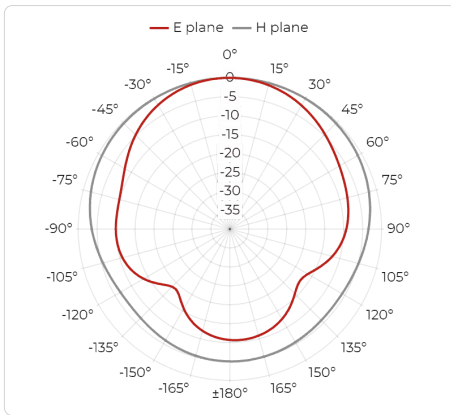


Port B, H plane

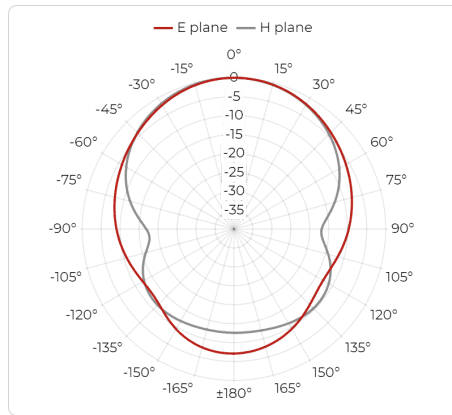


Radiation Patterns - Port A

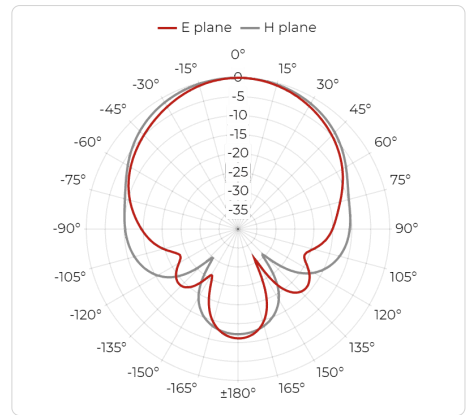
Port A, 0.3 GHz



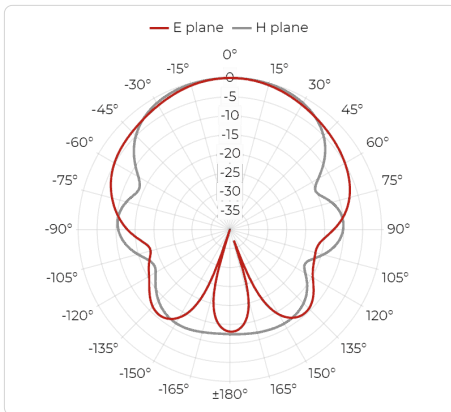
Port A, 0.4 GHz



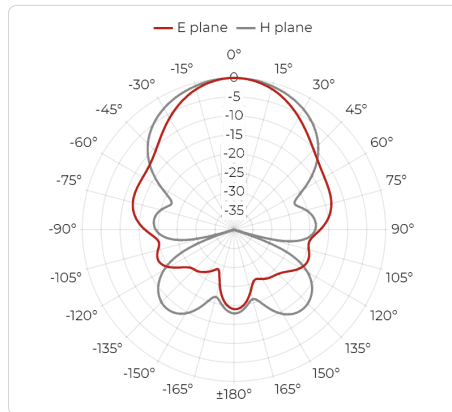
Port A, 0.6 GHz



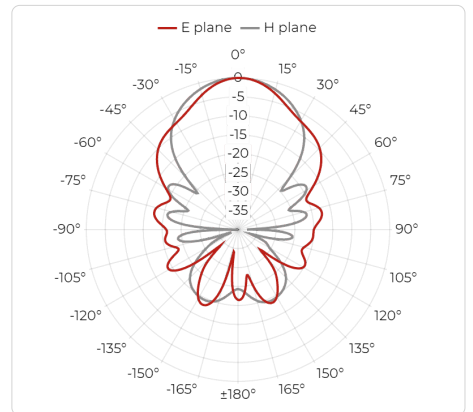
Port A, 0.8 GHz



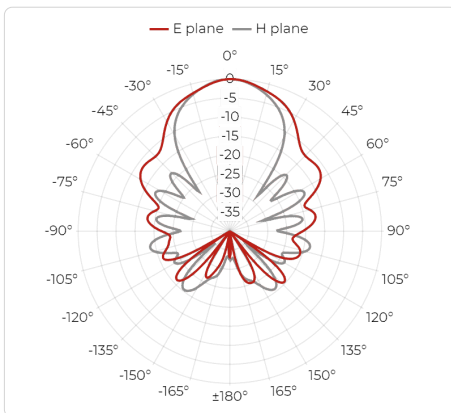
Port A, 1 GHz



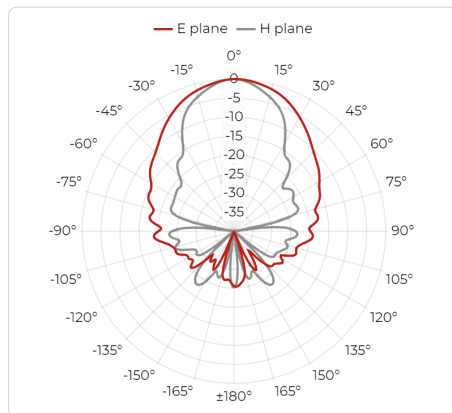
Port A, 1.5 GHz



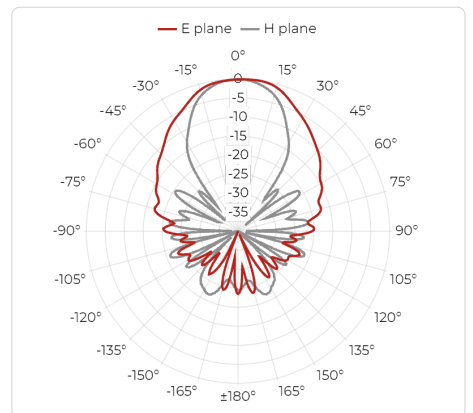
Port A, 2 GHz



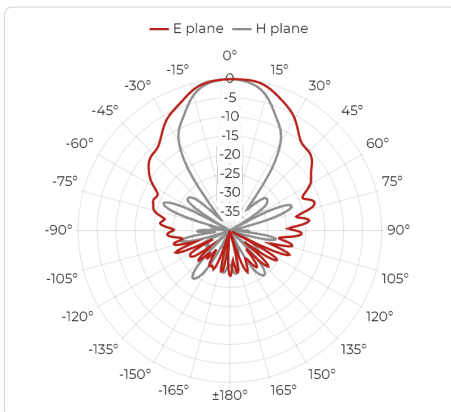
Port A, 2.5 GHz



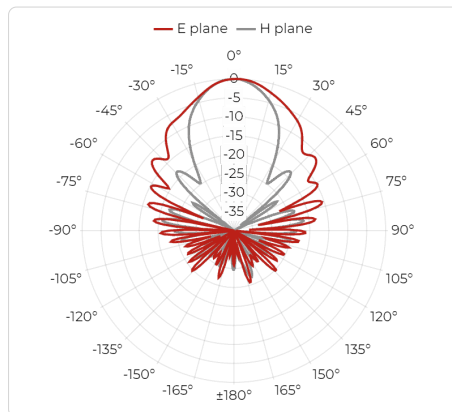
Port A, 3 GHz



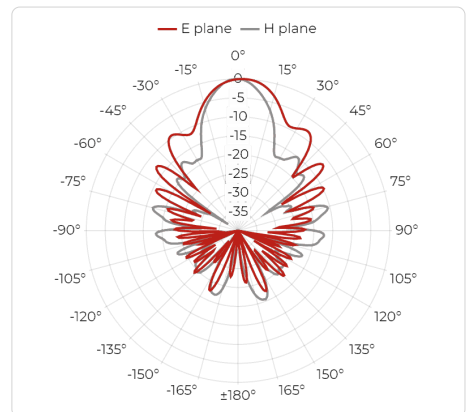
Port A, 3.5 GHz



Port A, 4 GHz

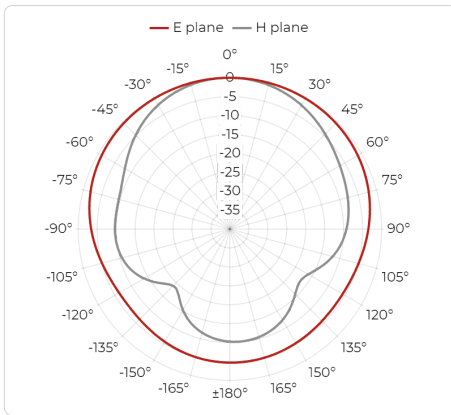


Port A, 4.5 GHz

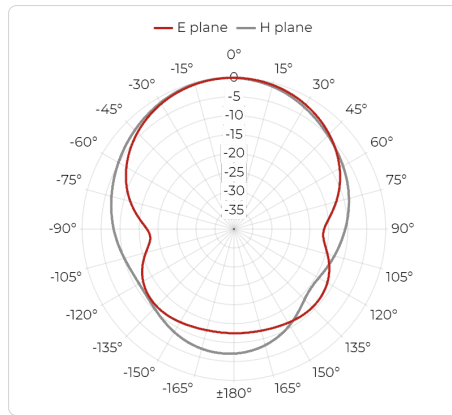


Radiation Patterns - Port B

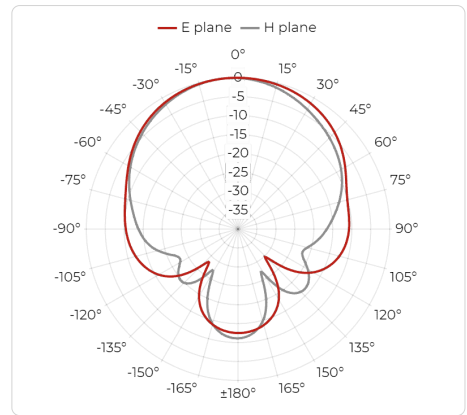
Port B, 0.3 GHz



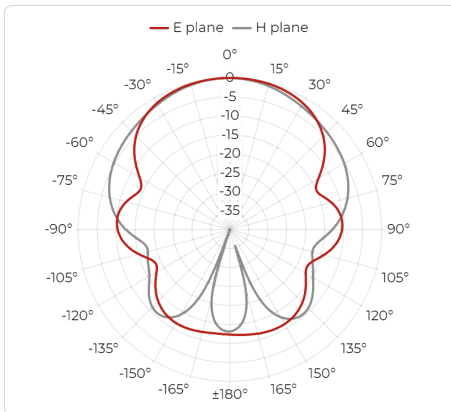
Port B, 0.4 GHz



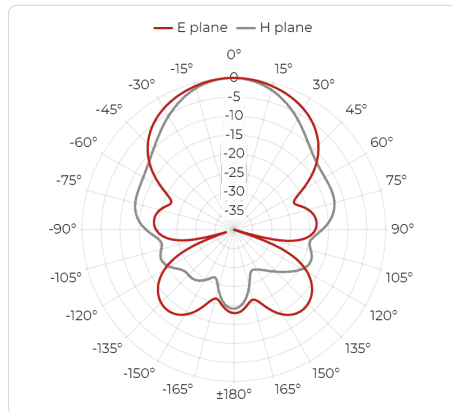
Port B, 0.6 GHz



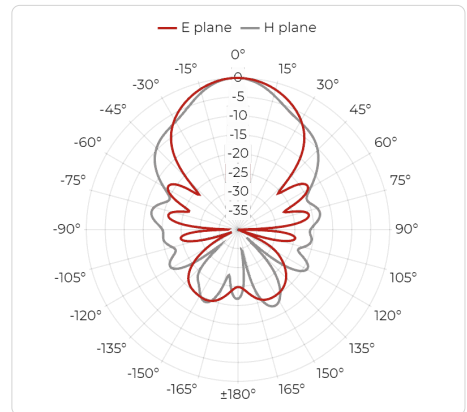
Port B, 0.8 GHz



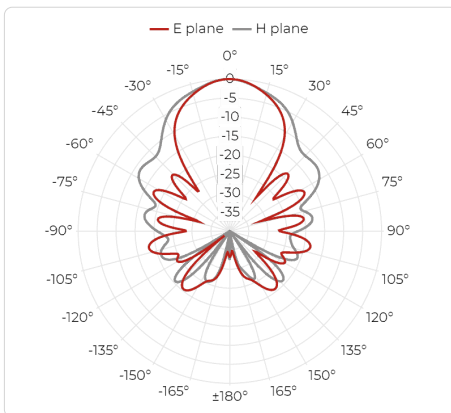
Port B, 1 GHz



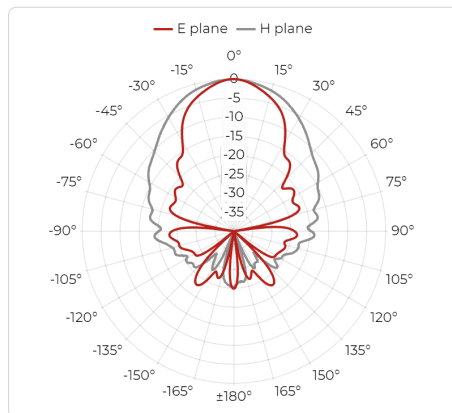
Port B, 1.5 GHz



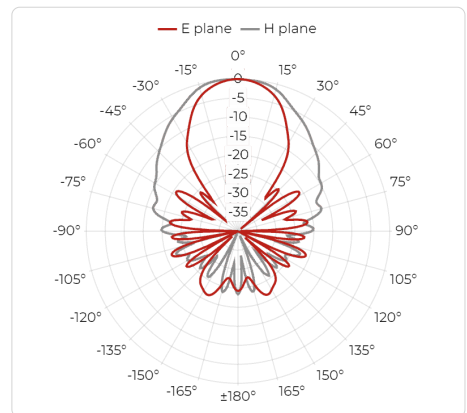
Port B, 2 GHz



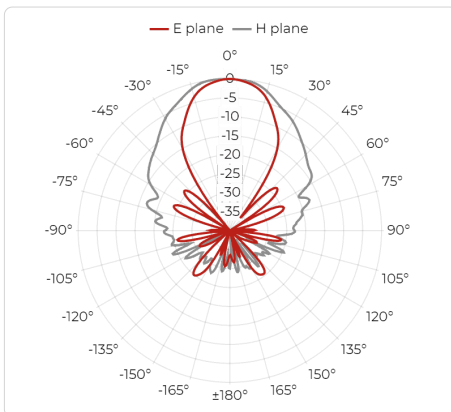
Port B, 2.5 GHz



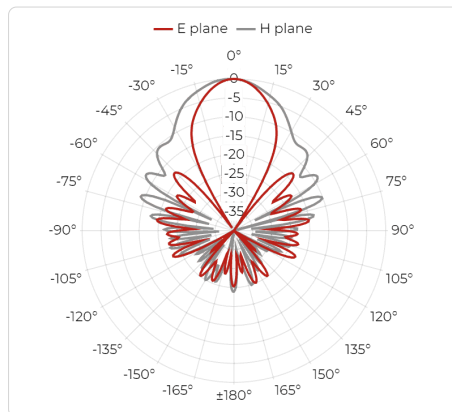
Port B, 3 GHz



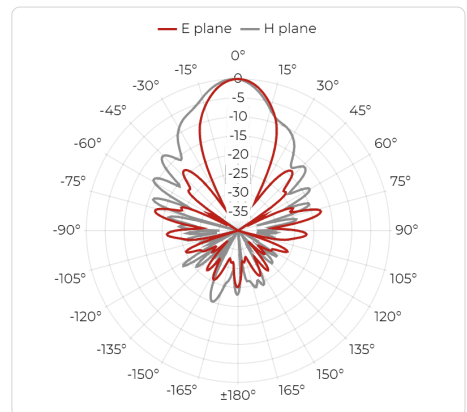
Port B, 3.5 GHz



Port B, 4 GHz



Port B, 4.5 GHz



Packaging and Accessories

What's in a box

- QRH300 Antenna
- Factory calibration certificate
- Full calibration report of each antenna
- QR code accessing online portal
- Calibration test dataset (available online)
- Universal antenna mount



Factory calibration report

Custom services

- Custom mounting solutions
- Custom calibration data

Accessories

- Standard mounting flange

Manufacturer Information

About Datasheet

Product information available also online at
<https://www.rfspin.com/product/qrh300/>

Data and specifications subject to change without notice.

Datasheet revision 07-2021.

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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