



Quad Ridged Horn 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.

Features and Specifications

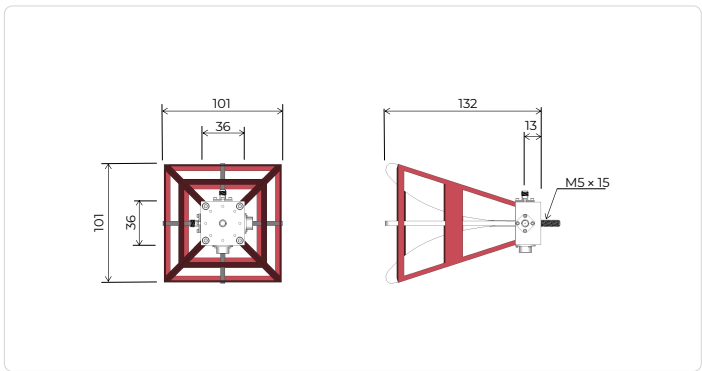
<p>Technical Performance</p> <ul style="list-style-type: none"> Wide bandwidth Low return loss Individual calibration 	<p>Design and Surface Treatment</p> <ul style="list-style-type: none"> Corrosion-resistant coating Includes standard mount Very precise spirit level for both polarizations 	<p>Manufacturing Technology</p> <ul style="list-style-type: none"> Manufactured using a high grade aluminum alloy Extremely durable High quality SMA type coaxial connector 	<p>Product Packaging Includes</p> <ul style="list-style-type: none"> Adapter with 1/4 inch inner thread, supplied with antenna Linear polarized double ridged broadband horn antenna
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Product Parameters

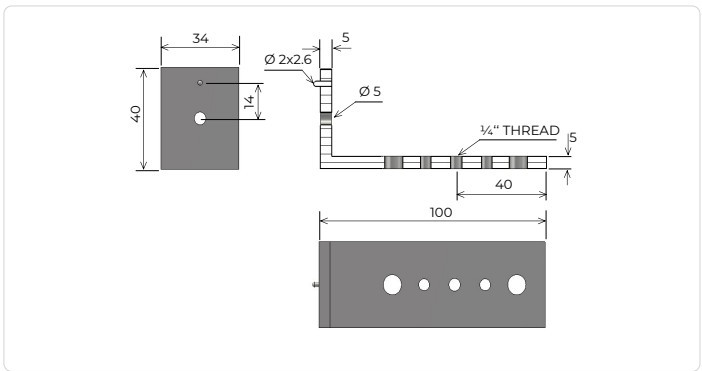
<p>PRODUCT IDENTIFICATION</p>		<p>PHYSICAL SPECIFICATIONS</p>	
Product Name	QRH20E	Width	101 mm (3.976 in)
Product Category	Quad Ridged Horn Antenna	Height	132 mm (5.197 in)
<p>ELECTRICAL SPECIFICATIONS</p>		Depth	101 mm (3.976 in)
Frequency Range	1.7 GHz – 20 GHz	Weight	0.258 kg (0.569 lb)
VSWR (max.)	2.4	<p>OPERATING CONDITIONS</p>	
VSWR (avg.)	1.45	Rated Temperature Range	0°C – +50°C
Impedance	50 Ohm	Storage Temperature Range	-20°C – +70°C
Connector	SMA	<p>MOUNTING FLANGE</p>	
Power (CW / Peak)	20 W / 40 W	Mounting	Adapter with 1/4 inch inner thread, supplied with antenna
Antenna Factor	28 – 42.5 dB/m		
Port Isolation	-35 dB		
Polarization	Dual Linear, Circular (with hybrid)		

Mechanical Drawings

Antenna



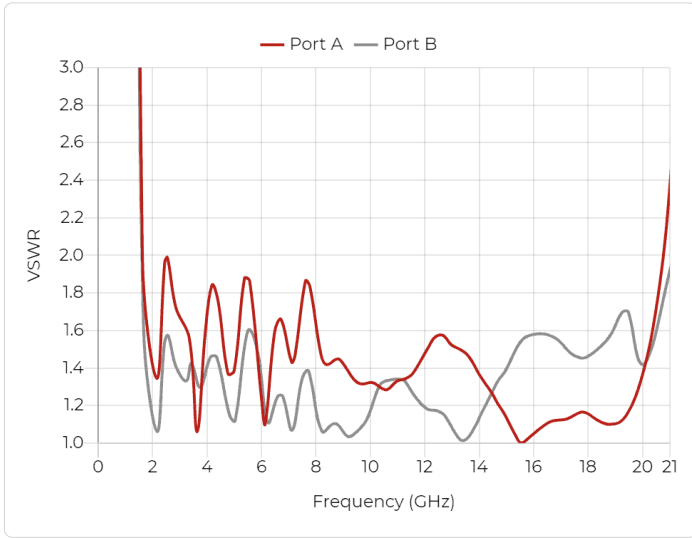
Mounting flange



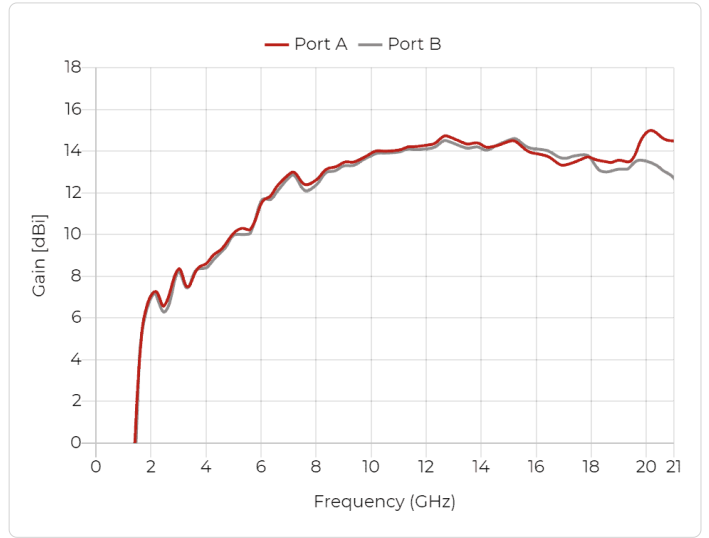
Parameters and Performance

Typical parameters

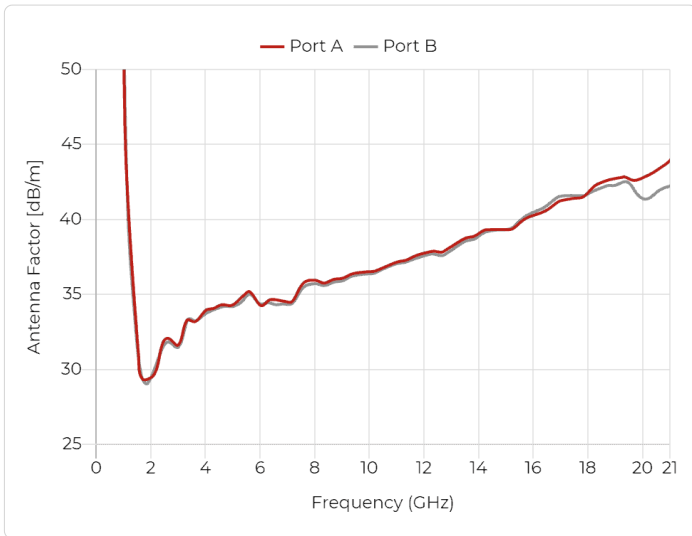
VSWR



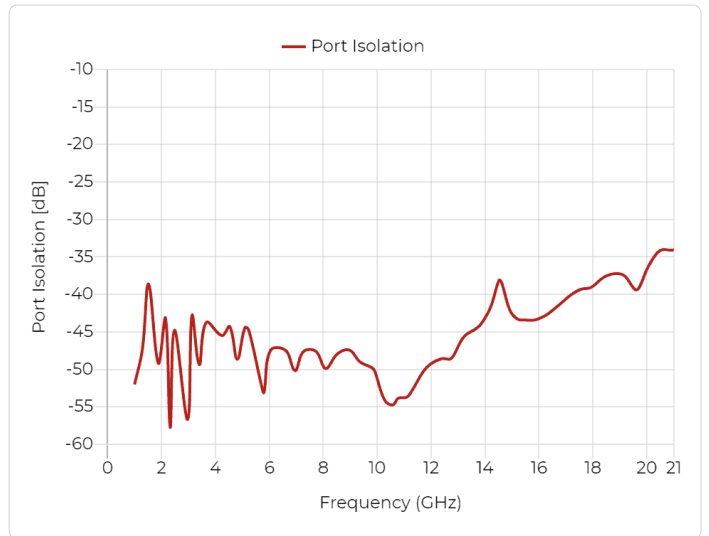
Gain



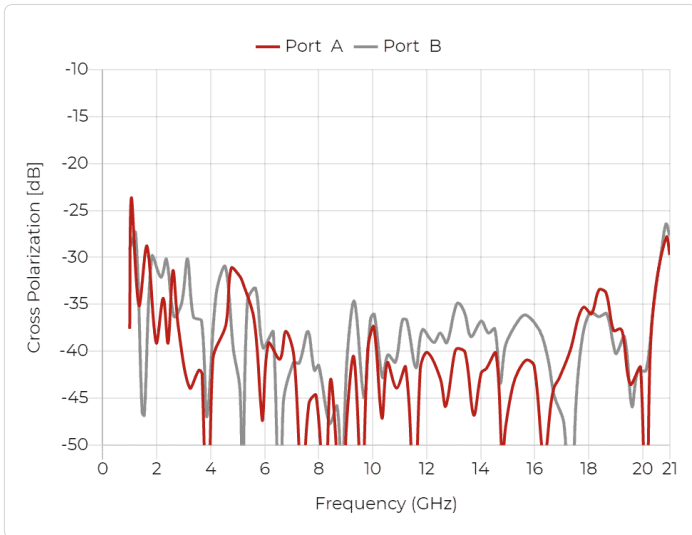
Antenna Factor



Port Isolation

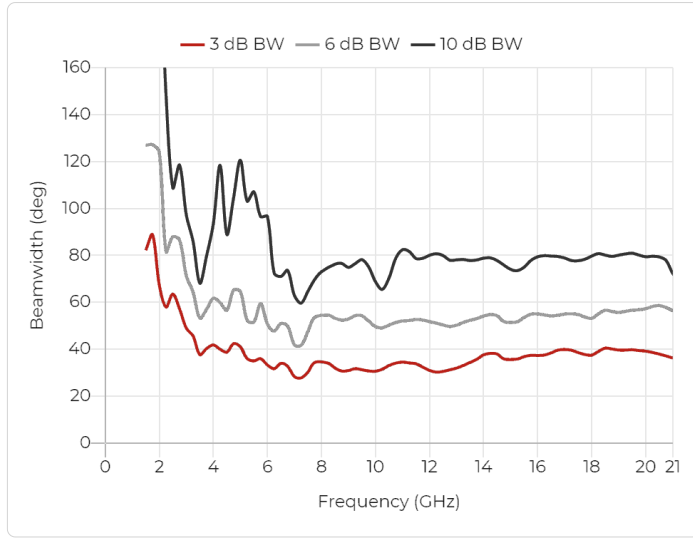


Cross Polarization

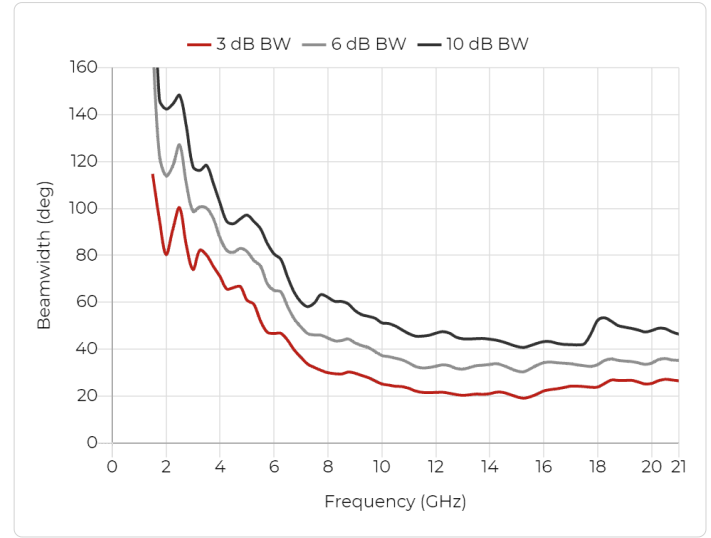


Beamwidth

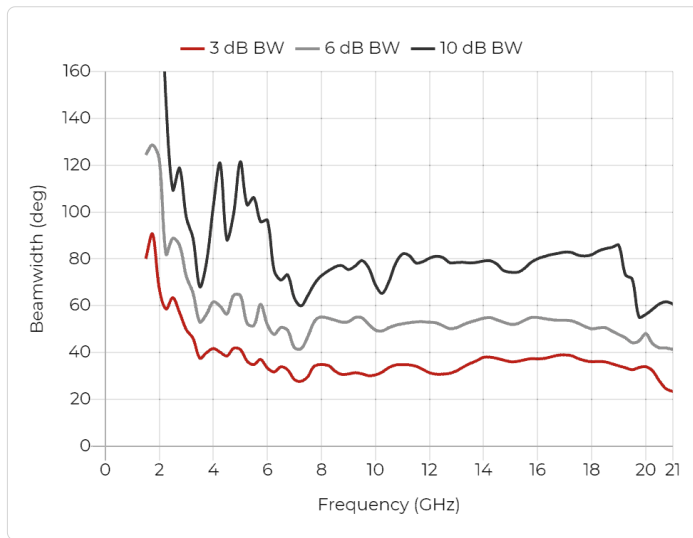
Port A, E plane



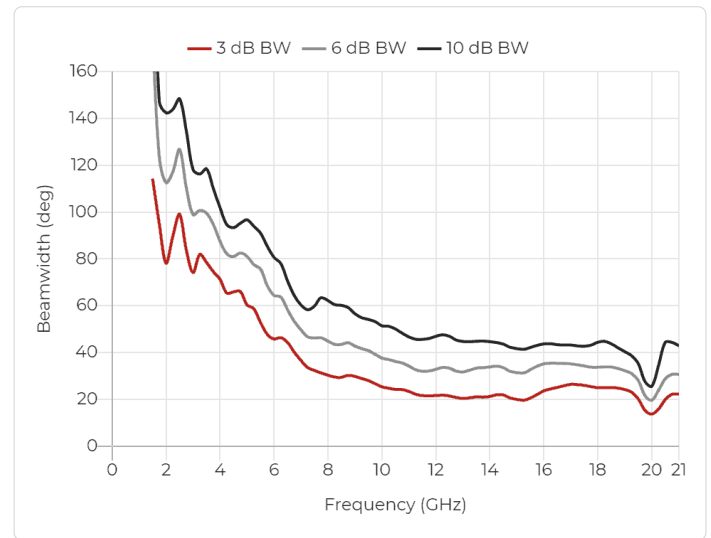
Port A, H plane



Port B, E plane

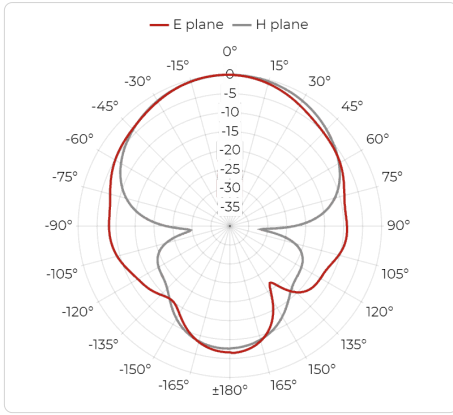


Port B, H plane

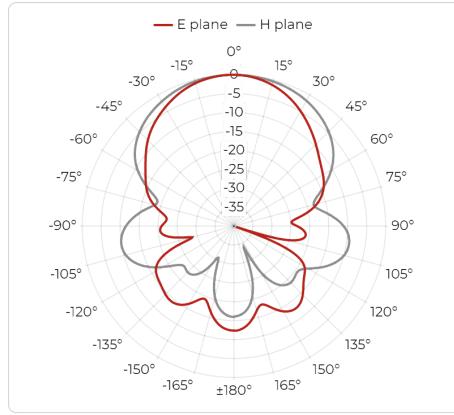


Radiation Patterns - Port A

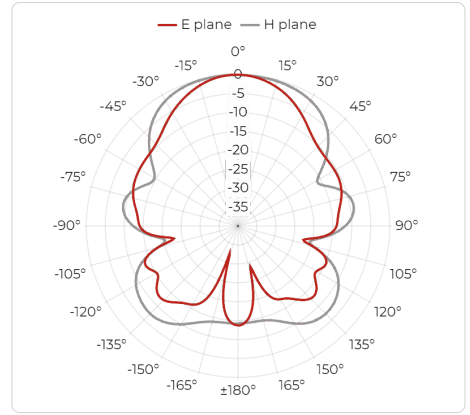
Port A, 2 GHz



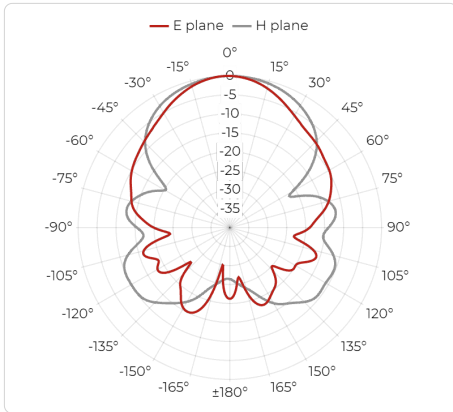
Port A, 3 GHz



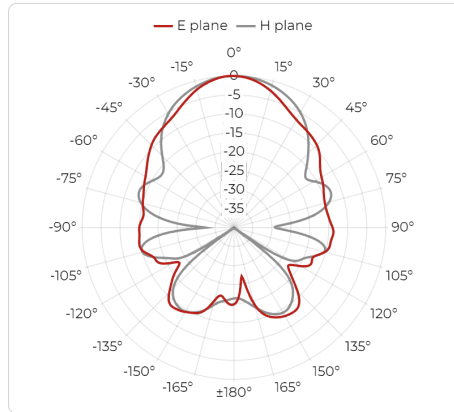
Port A, 4 GHz



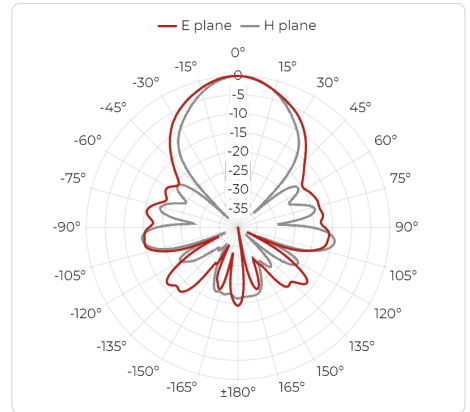
Port A, 5 GHz



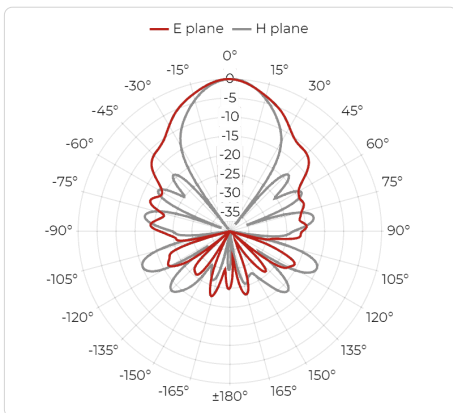
Port A, 6 GHz



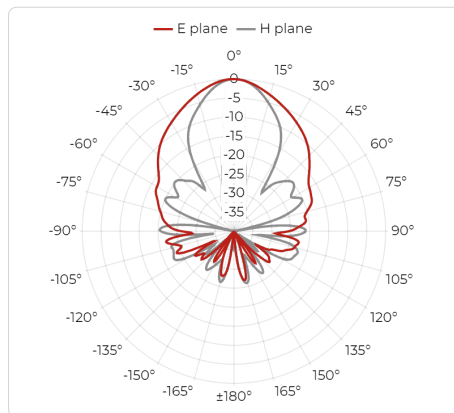
Port A, 8 GHz



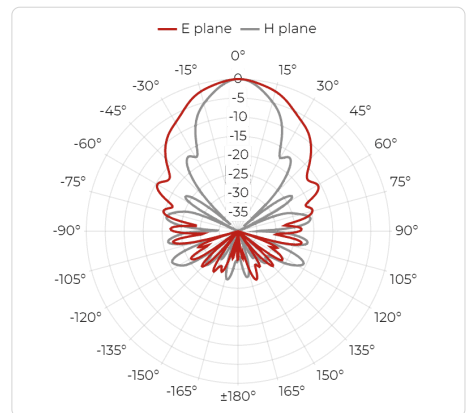
Port A, 10 GHz



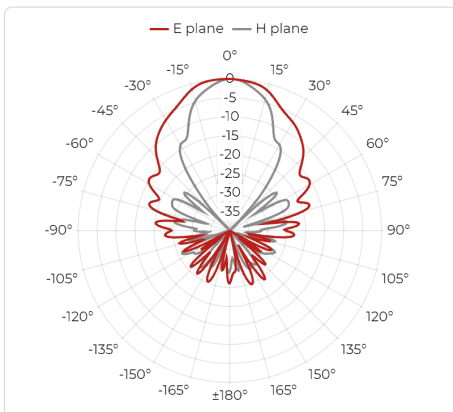
Port A, 12 GHz



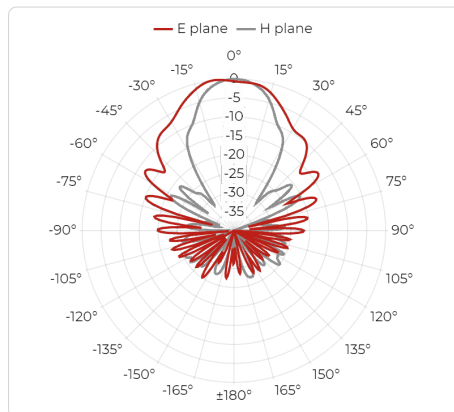
Port A, 14 GHz



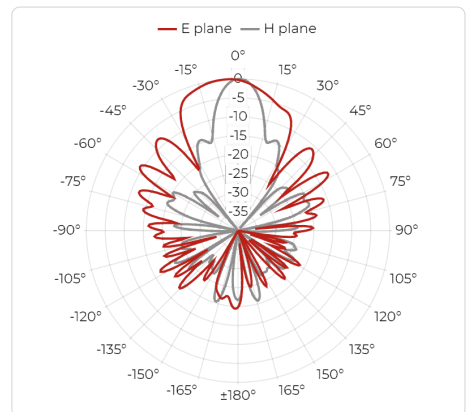
Port A, 16 GHz



Port A, 18 GHz

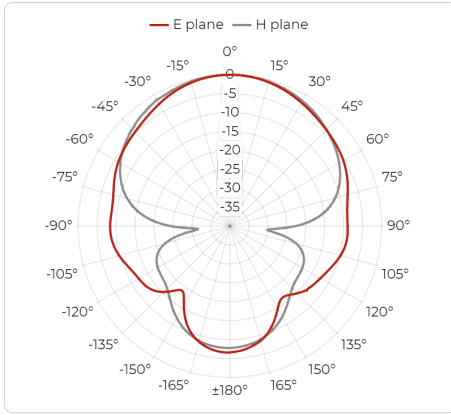


Port A, 20 GHz

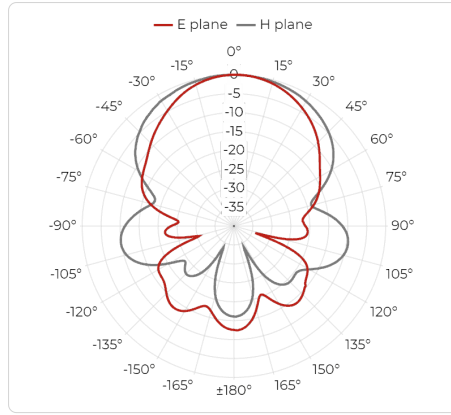


Radiation Patterns - Port B

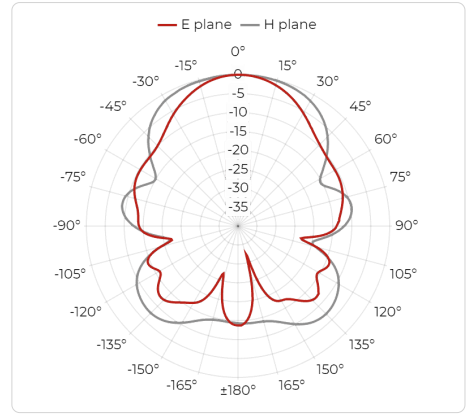
Port B, 2 GHz



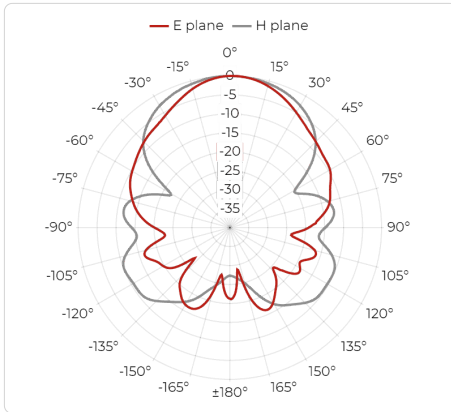
Port B, 3 GHz



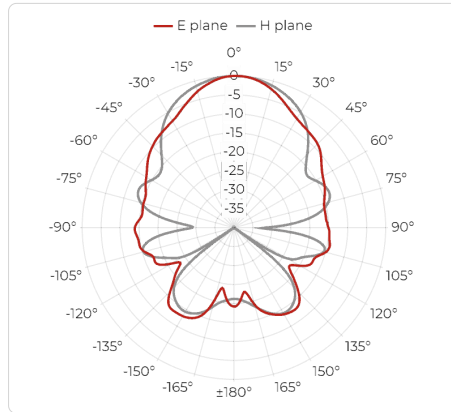
Port B, 4 GHz



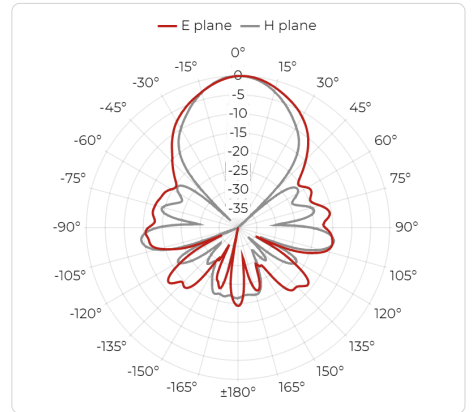
Port B, 5 GHz



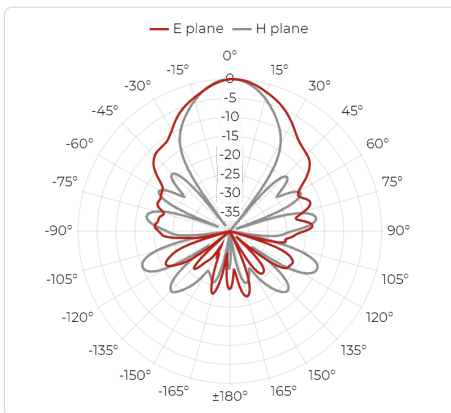
Port B, 6 GHz



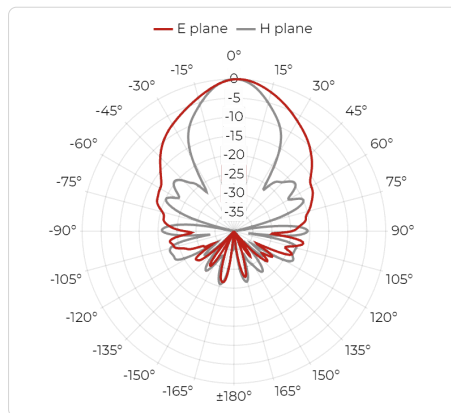
Port B, 8 GHz



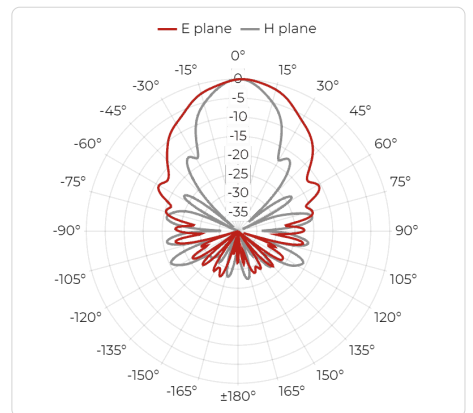
Port B, 10 GHz



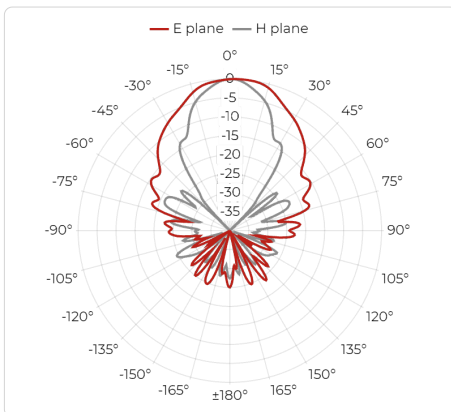
Port B, 12 GHz



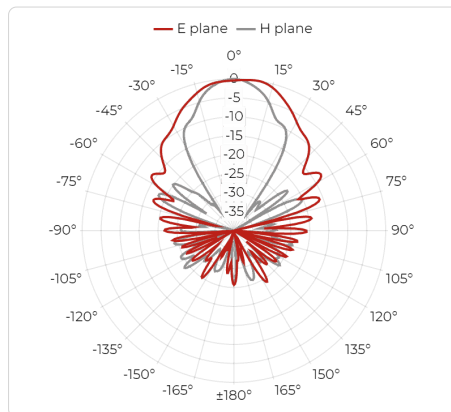
Port B, 14 GHz



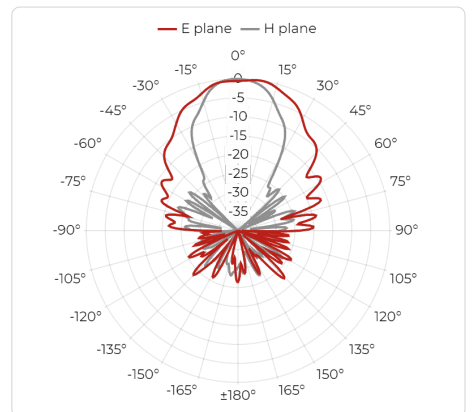
Port B, 16 GHz



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)



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/qrh20e/>
Data and specifications subject to change without notice.
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