



Quad Ridged Horn Antenna

One of a kind, the QRH67E combines maximum frequency and low VSWR for RF laboratories, as well as R&D of new wireless technologies and 5G networks. Advanced antenna with exceptional technical parameters and excellent design in aluminum alloy.

Features and Specifications

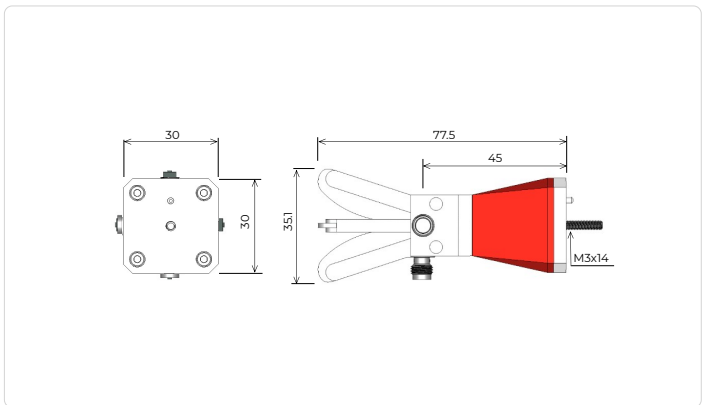
<p>Technical Performance</p> <ul style="list-style-type: none"> Wide bandwidth Low return loss Individual calibration Covers 5G frequency band 	<p>Design and Surface Treatment</p> <ul style="list-style-type: none"> Corrosion-resistant coating Includes standard mount Storage in protective tailor-made wooden box 	<p>Manufacturing Technology</p> <ul style="list-style-type: none"> Manufactured using a high grade aluminum alloy Extremely durable High quality 1.85mm type coaxial connector 	<p>Product Packaging Includes</p> <ul style="list-style-type: none"> Adapter with ¼ inch inner thread, supplied with antenna Linear polarized double ridged broadband horn antenna
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Product Parameters

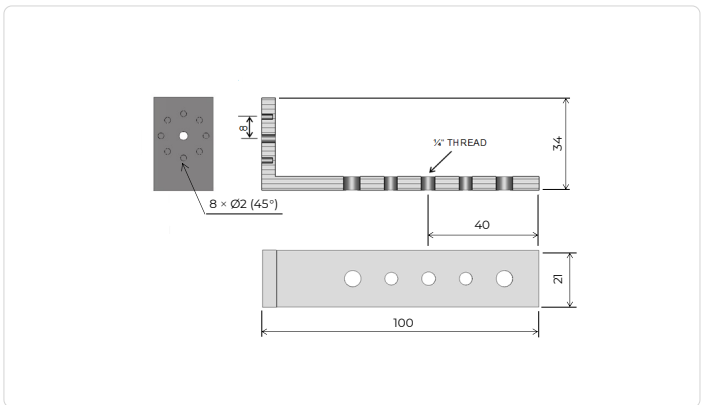
<p>PRODUCT IDENTIFICATION</p> <table border="1"> <tr> <td>Product Name</td> <td>QRH67E</td> </tr> <tr> <td>Product Category</td> <td>Quad Ridged Horn Antenna</td> </tr> </table> <p>ELECTRICAL SPECIFICATIONS</p> <table border="1"> <tr> <td>Frequency Range</td> <td>6 GHz – 67 GHz</td> </tr> <tr> <td>VSWR (max.)</td> <td>2.4</td> </tr> <tr> <td>VSWR (avg.)</td> <td>1.4</td> </tr> <tr> <td>Impedance</td> <td>50 Ohm</td> </tr> <tr> <td>Connector</td> <td>1.85mm</td> </tr> <tr> <td>Power (CW / Peak)</td> <td>5 W / 10 W</td> </tr> <tr> <td>Antenna Factor</td> <td>40 – 54 dB/m</td> </tr> <tr> <td>Port Isolation</td> <td>-28 dB</td> </tr> <tr> <td>Polarization</td> <td>Dual Linear, Circular (with hybrid)</td> </tr> </table>	Product Name	QRH67E	Product Category	Quad Ridged Horn Antenna	Frequency Range	6 GHz – 67 GHz	VSWR (max.)	2.4	VSWR (avg.)	1.4	Impedance	50 Ohm	Connector	1.85mm	Power (CW / Peak)	5 W / 10 W	Antenna Factor	40 – 54 dB/m	Port Isolation	-28 dB	Polarization	Dual Linear, Circular (with hybrid)	<p>PHYSICAL SPECIFICATIONS</p> <table border="1"> <tr> <td>Width</td> <td>35.1 mm (1.382 in)</td> </tr> <tr> <td>Height</td> <td>77.5 mm (3.051 in)</td> </tr> <tr> <td>Depth</td> <td>35.1 mm (1.382 in)</td> </tr> <tr> <td>Weight</td> <td>0.07 kg (0.154 lb)</td> </tr> </table> <p>OPERATING CONDITIONS</p> <table border="1"> <tr> <td>Rated Temperature Range</td> <td>0°C – +50°C</td> </tr> <tr> <td>Storage Temperature Range</td> <td>-20°C – +70°C</td> </tr> </table> <p>MOUNTING FLANGE</p> <table border="1"> <tr> <td>Mounting</td> <td>Adapter with ¼ inch inner thread, supplied with antenna</td> </tr> </table>	Width	35.1 mm (1.382 in)	Height	77.5 mm (3.051 in)	Depth	35.1 mm (1.382 in)	Weight	0.07 kg (0.154 lb)	Rated Temperature Range	0°C – +50°C	Storage Temperature Range	-20°C – +70°C	Mounting	Adapter with ¼ inch inner thread, supplied with antenna
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Mechanical Drawings

Antenna



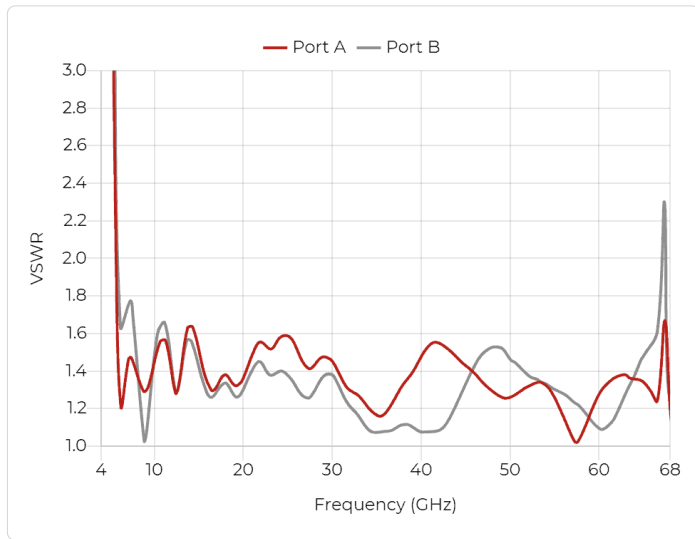
Mounting flange



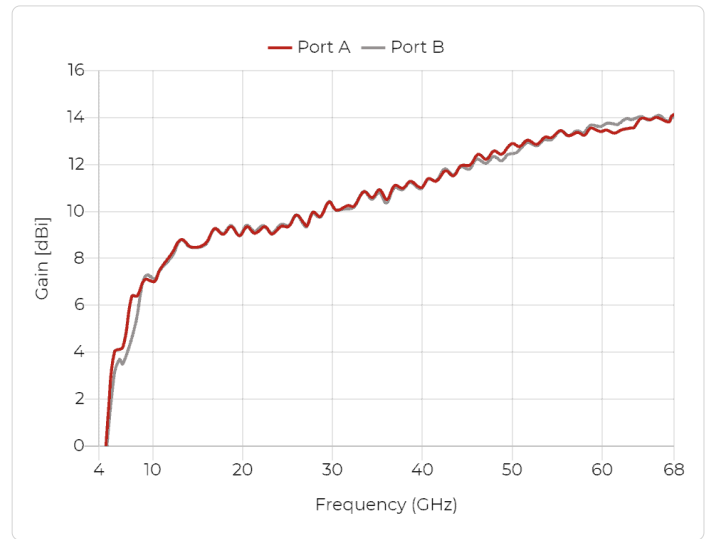
Parameters and Performance

Typical parameters

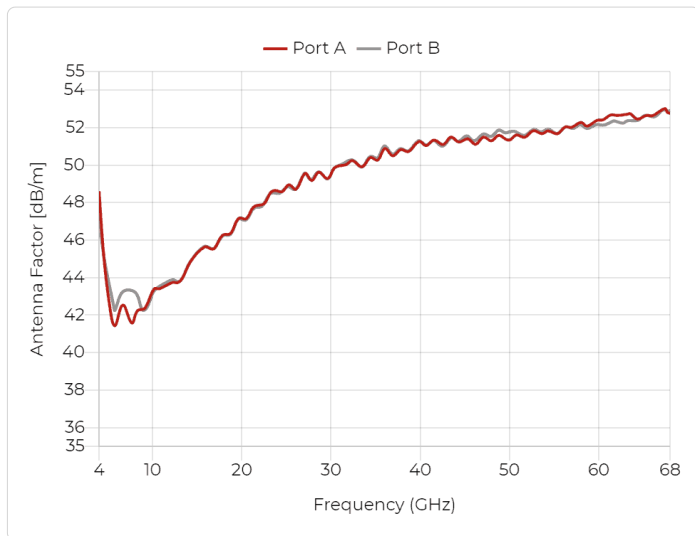
VSWR



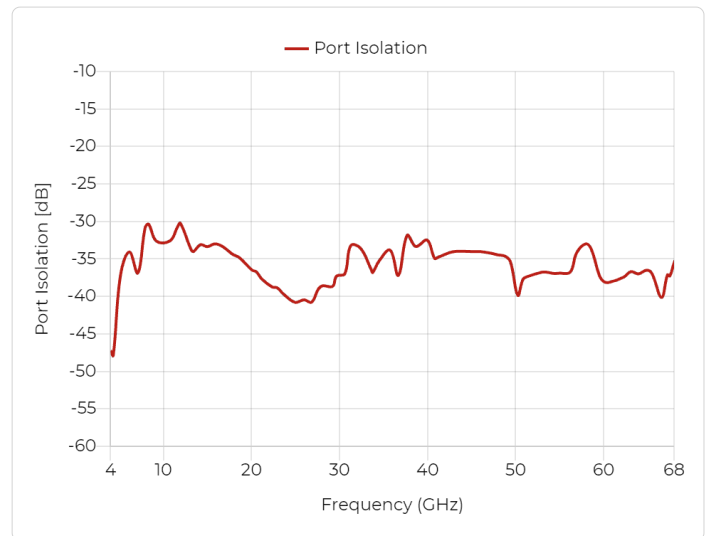
Gain



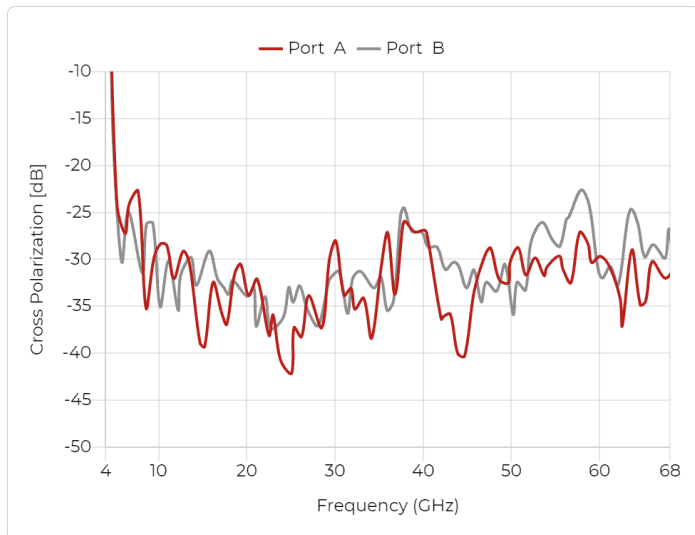
Antenna Factor



Port Isolation

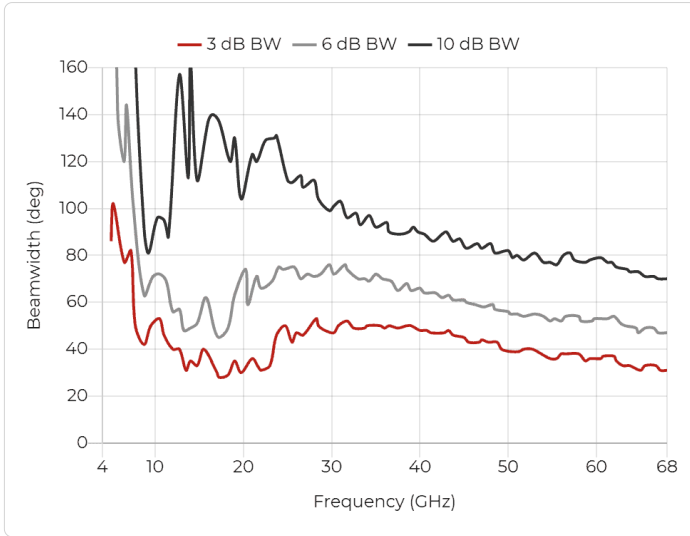


Cross Polarization

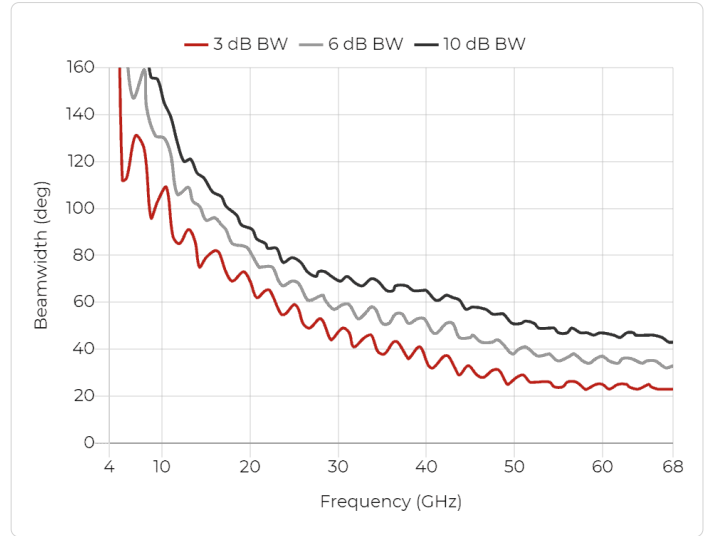


Beamwidth

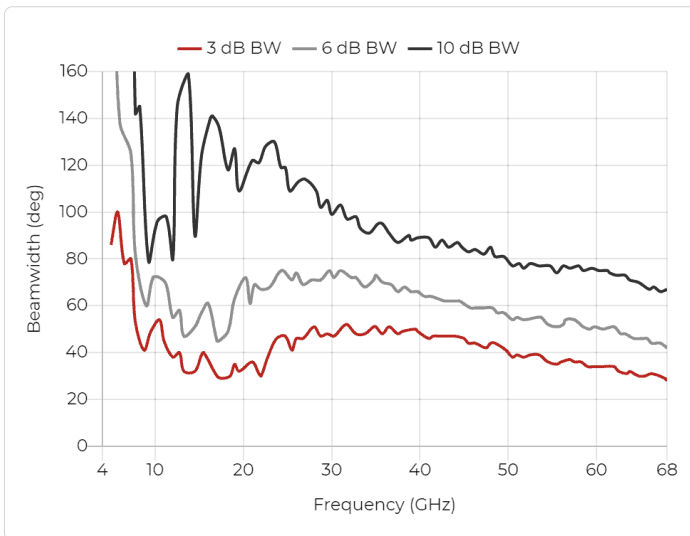
Port A, E plane



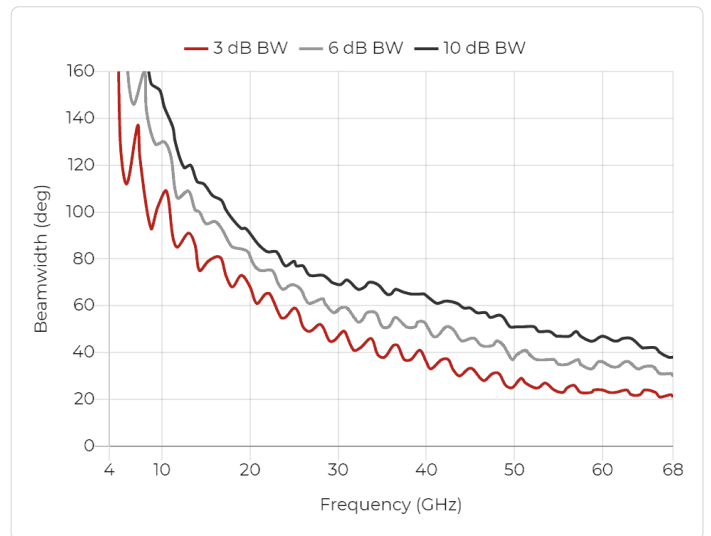
Port A, H plane



Port B, E plane

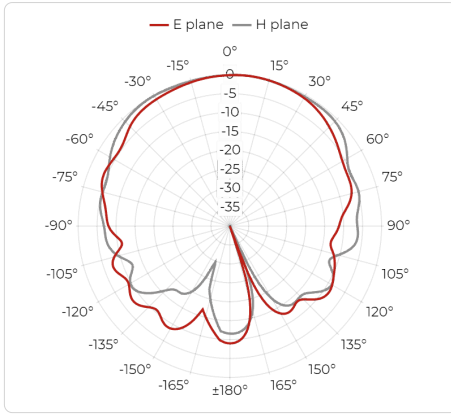


Port B, H plane

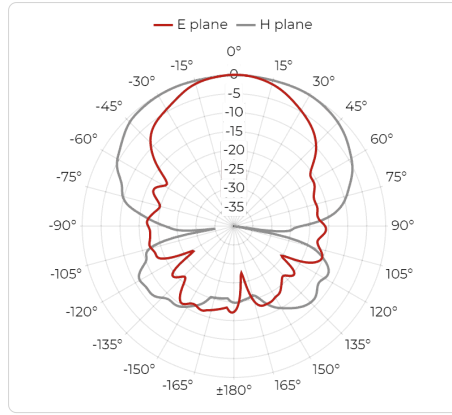


Radiation Patterns - Port A

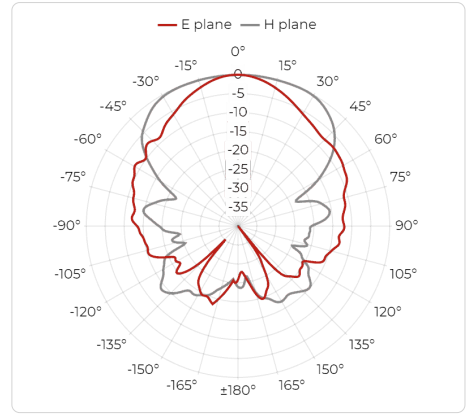
Port A, 6 GHz



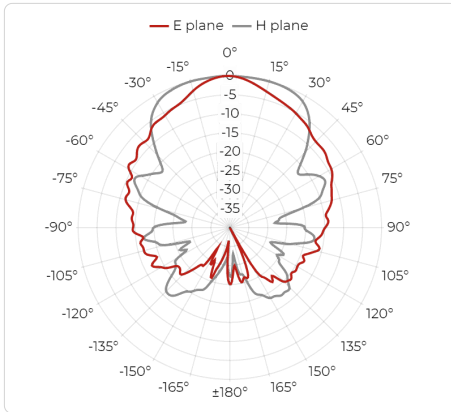
Port A, 10 GHz



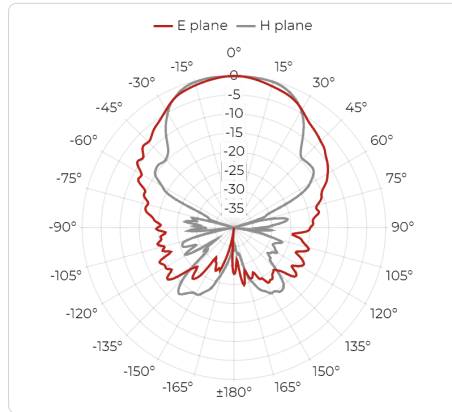
Port A, 16 GHz



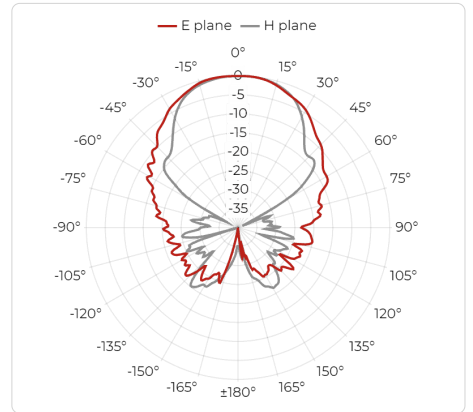
Port A, 22 GHz



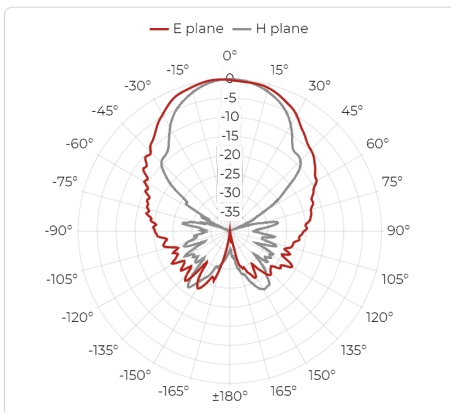
Port A, 28 GHz



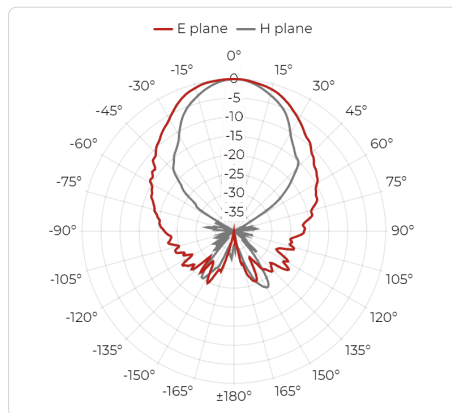
Port A, 34 GHz



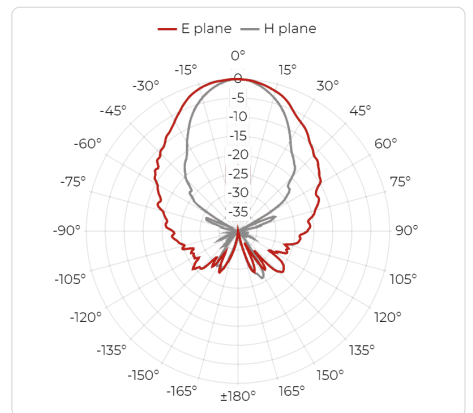
Port A, 40 GHz



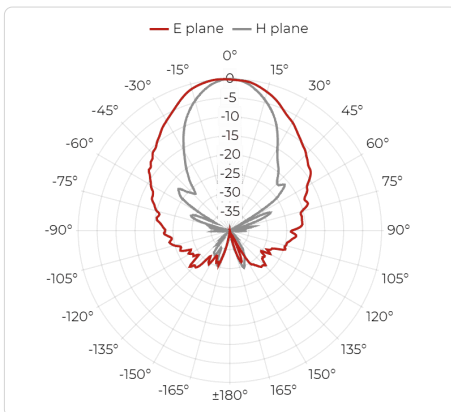
Port A, 46 GHz



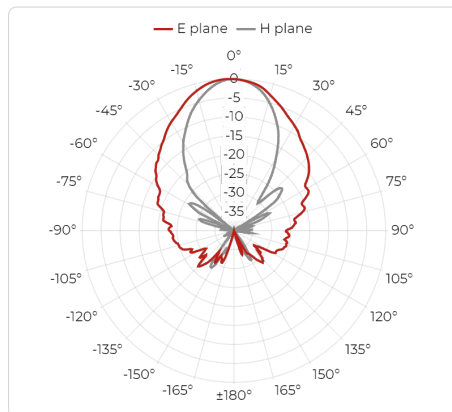
Port A, 52 GHz



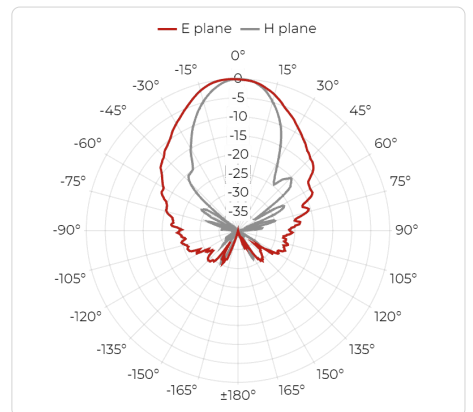
Port A, 58 GHz



Port A, 64 GHz

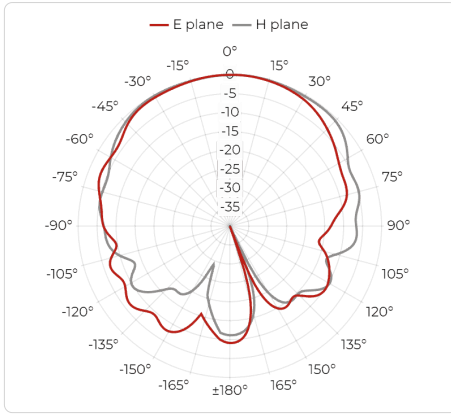


Port A, 67 GHz

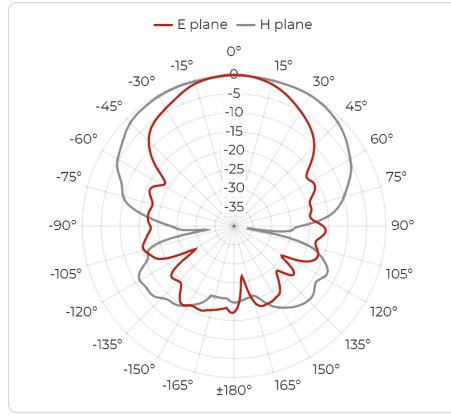


Radiation Patterns - Port B

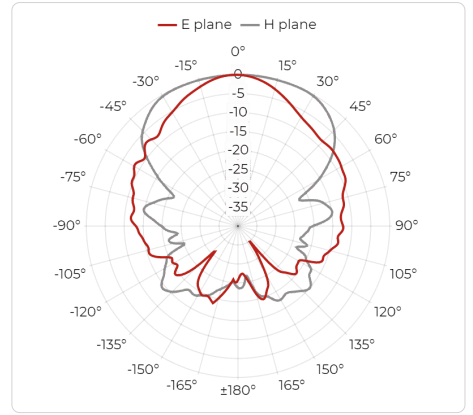
Port B, 6 GHz



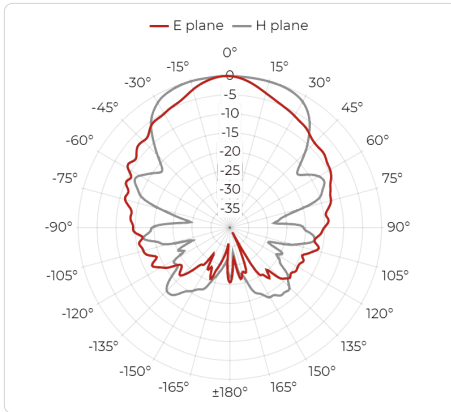
Port B, 10 GHz



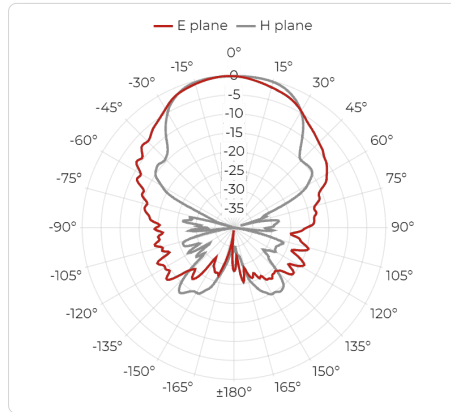
Port B, 16 GHz



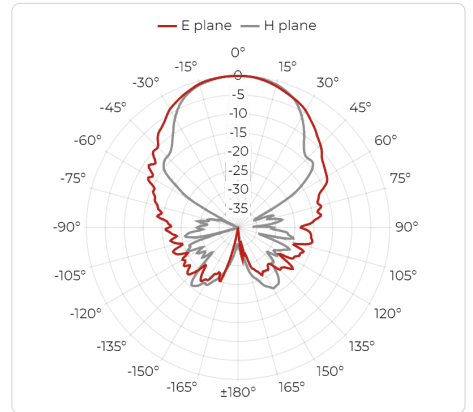
Port B, 22 GHz



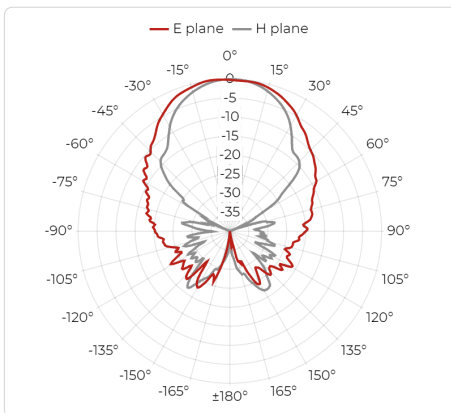
Port B, 28 GHz



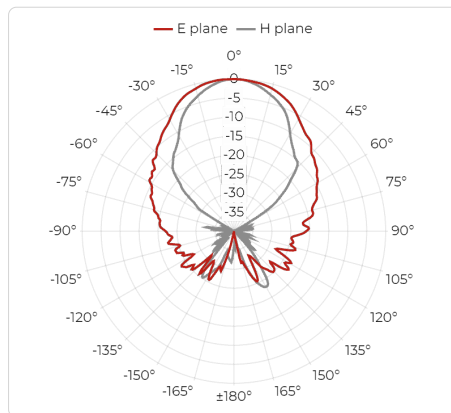
Port B, 34 GHz



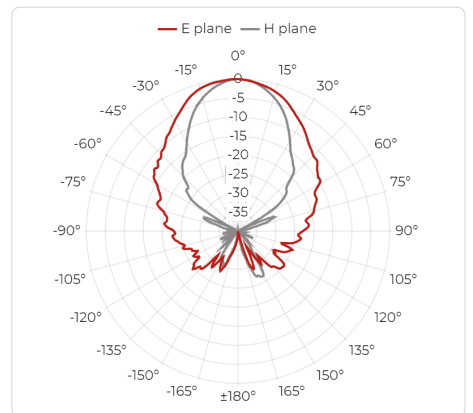
Port B, 40 GHz



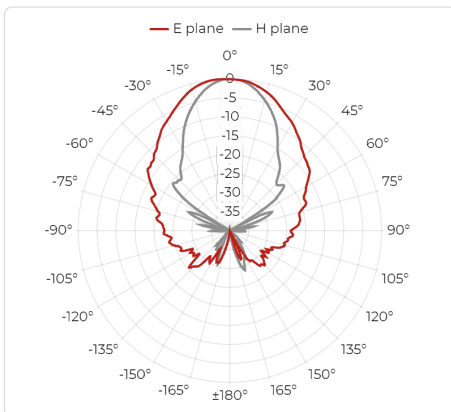
Port B, 46 GHz



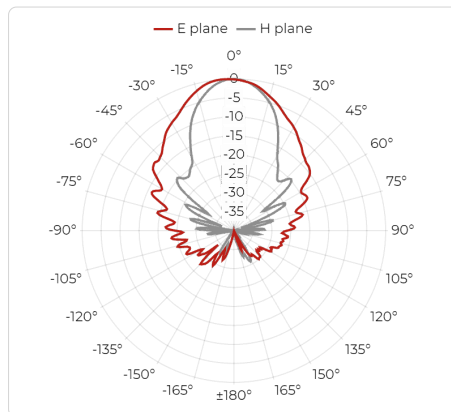
Port B, 52 GHz



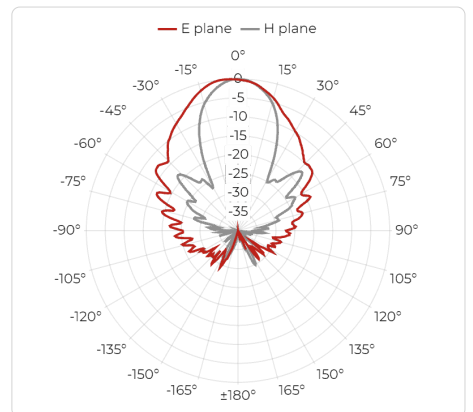
Port B, 58 GHz



Port B, 64 GHz



Port B, 67 GHz



Packaging and Accessories

What's in a box

- QRH67E Antenna
- Antenna specific mount adapter with ¼ inch inner thread
- Protective wooden case
- Factory calibration certificate
- Full calibration report of each antenna
- QR code accessing online portal
- Calibration test dataset (available online)

Accessories

- Standard mounting flange



Protective wooden case



Factory calibration report

Custom services

- Custom mounting solutions
- Custom calibration data

Manufacturer Information

About Datasheet

Product information available also online at
<https://www.rfspin.com/product/qrh67e/>

Data and specifications subject to change without notice.

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