



The DRH300 works in a frequency band starting from 300 MHz and going up to 4.5 GHz and beyond. High gain, low VSWR, input handling capability of more than 800 watts CW, and rugged design make this horn antenna excellent for both immunity and emissions testing. Each antenna is individually calibrated and data can be downloaded in electronic form.

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
- Suitable for EMC/EMI applications



Design and Surface Treatment

- Corrosion-resistant coating



Manufacturing Technology

- High quality N type coaxial connector



Product Packaging Includes

- Linear polarized double ridged broadband horn antenna

Product Parameters

PRODUCT IDENTIFICATION

Product Name	DRH300
Product Category	Double Ridged Horn Antenna

ELECTRICAL SPECIFICATIONS

Frequency Range	300 MHz – 4.5 GHz
VSWR (max.)	1.6
VSWR (avg.)	1.2
Connector	N (female)
Power (CW / Peak)	800 W / 1200 W
Antenna Factor	15 – 30 dB/m
Polarization	Linear

PHYSICAL SPECIFICATIONS

Width	473 mm (18.622 in)
Height	352 mm (13.858 in)
Depth	563 mm (22.165 in)
Weight	5.5 kg (12.125 lb)

OPERATING CONDITIONS

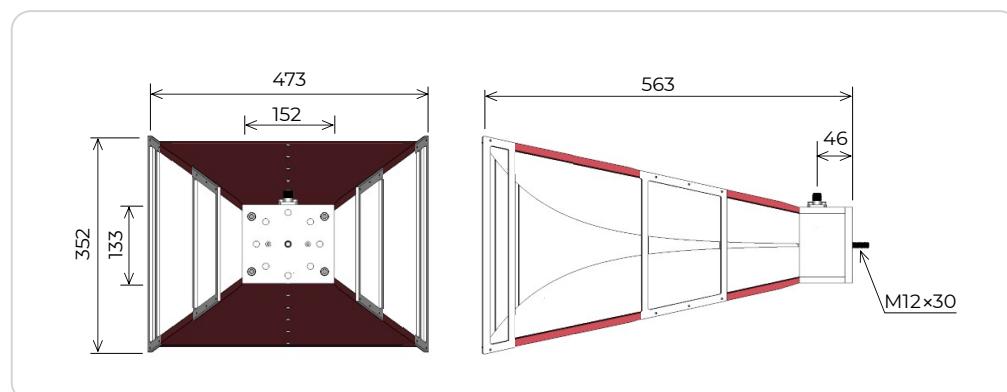
Rated Temperature Range	0°C – +50°C
Storage Temperature Range	-20°C – +70°C

MOUNTING FLANGE

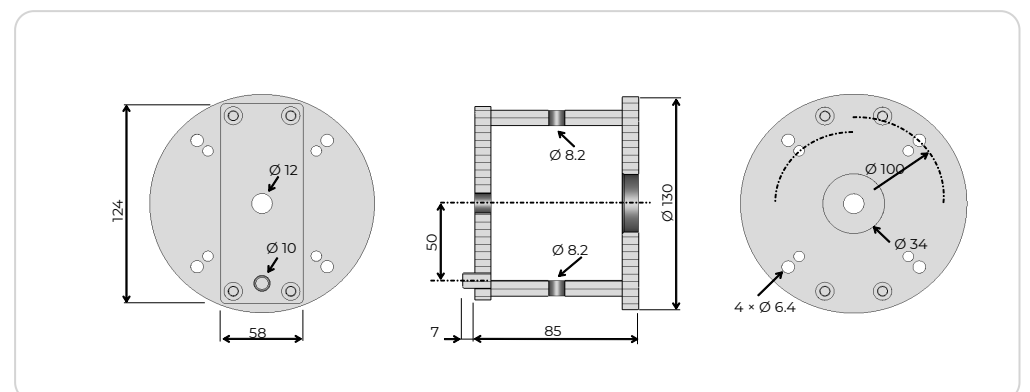
Mounting	Universal antenna mount
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Mechanical Drawings

Antenna



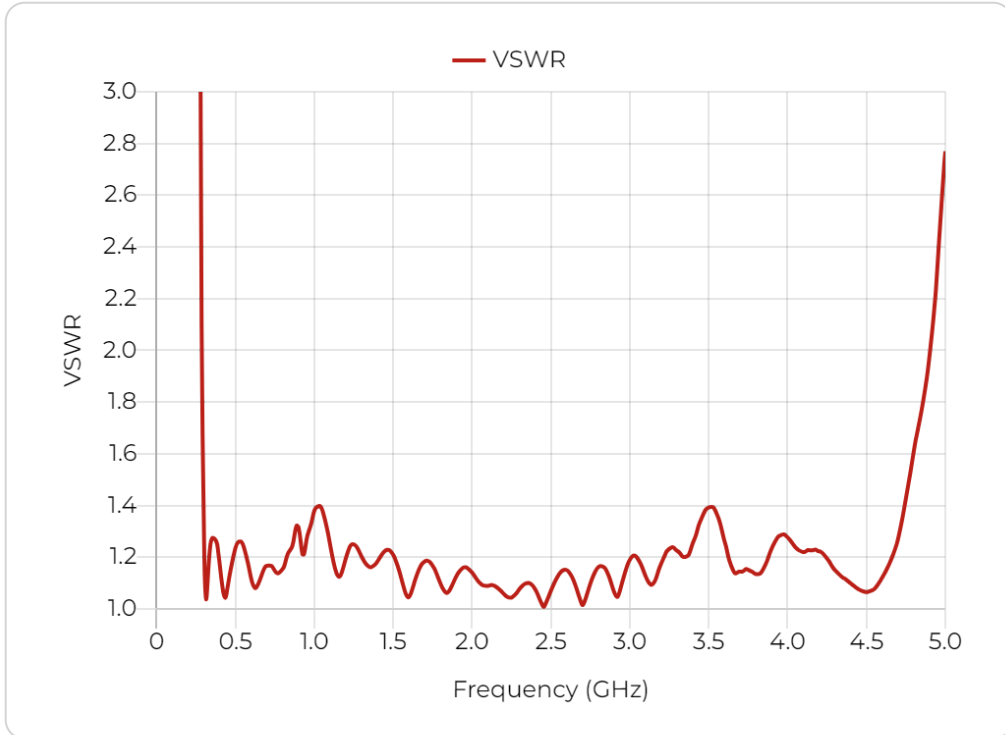
Mounting flange



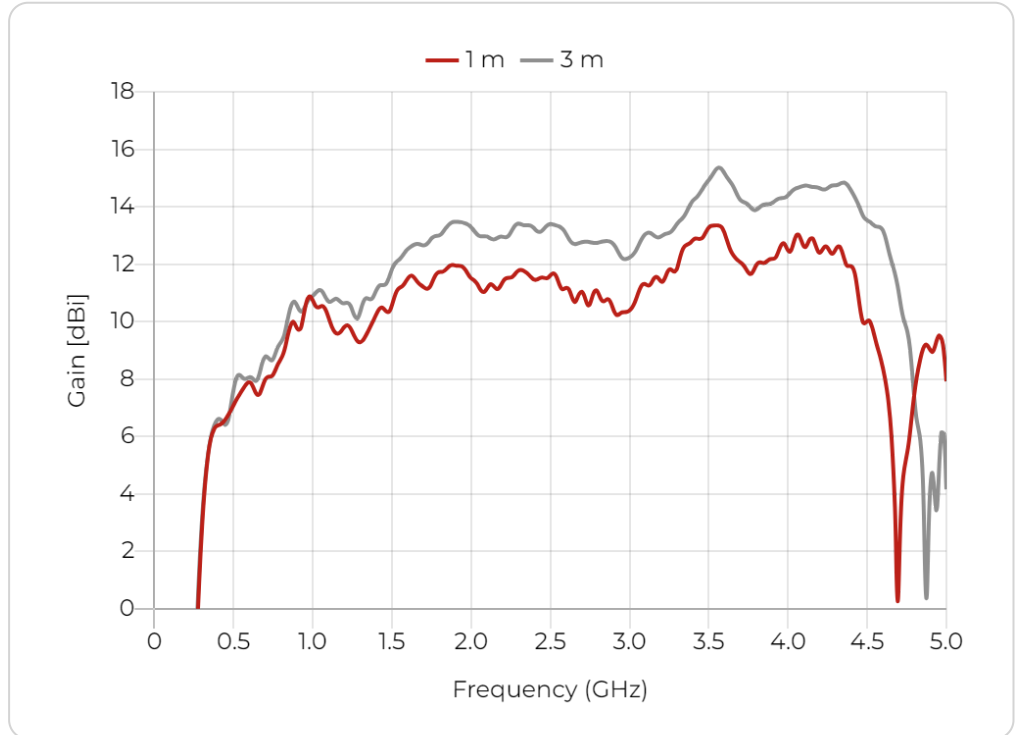
Parameters and Performance

Typical parameters

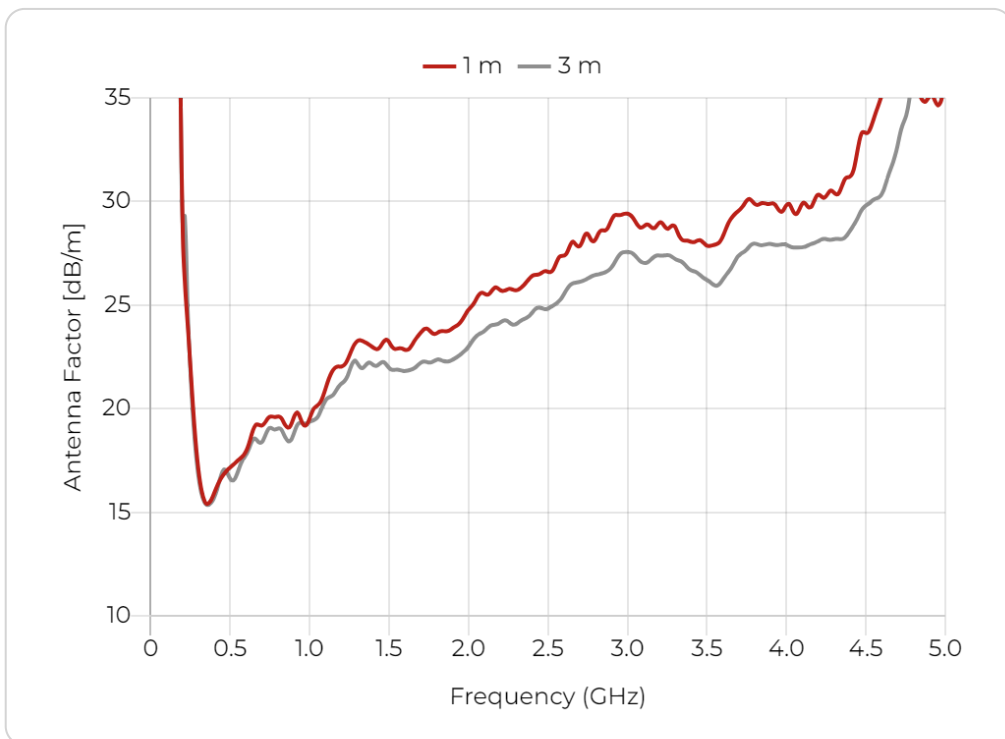
VSWR



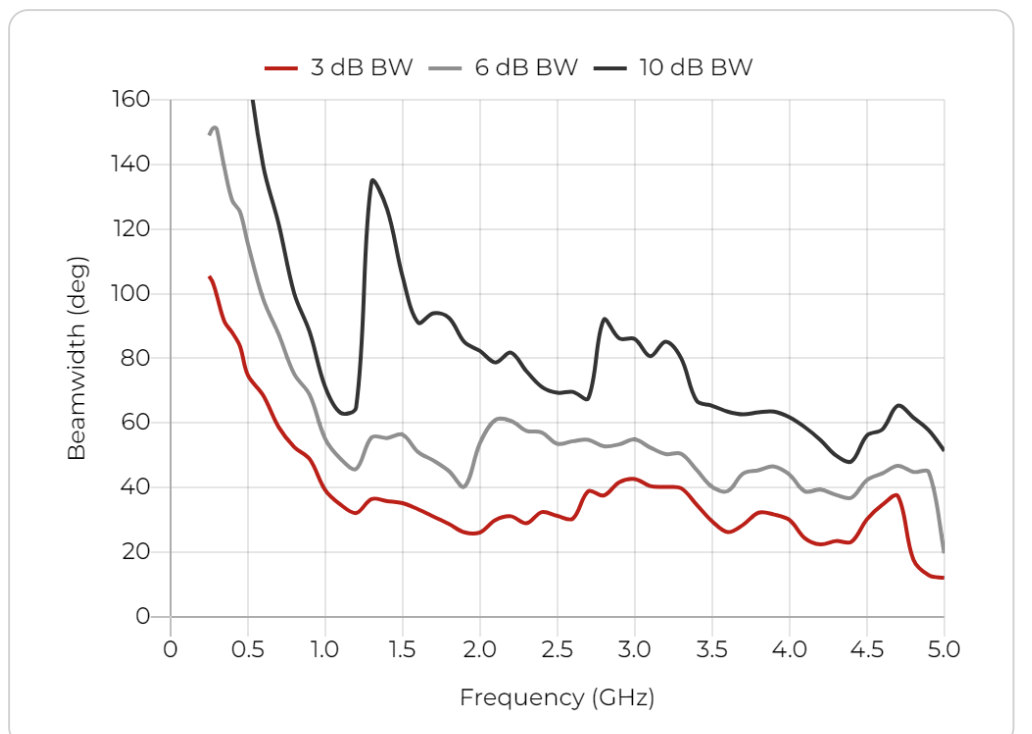
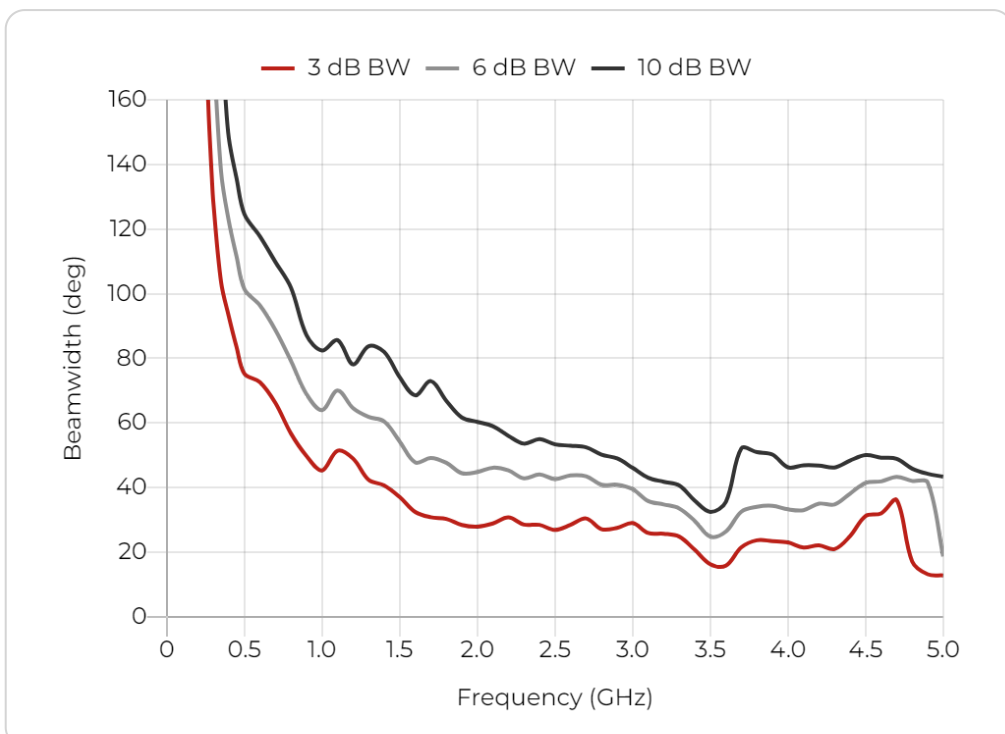
Gain



Antenna Factor

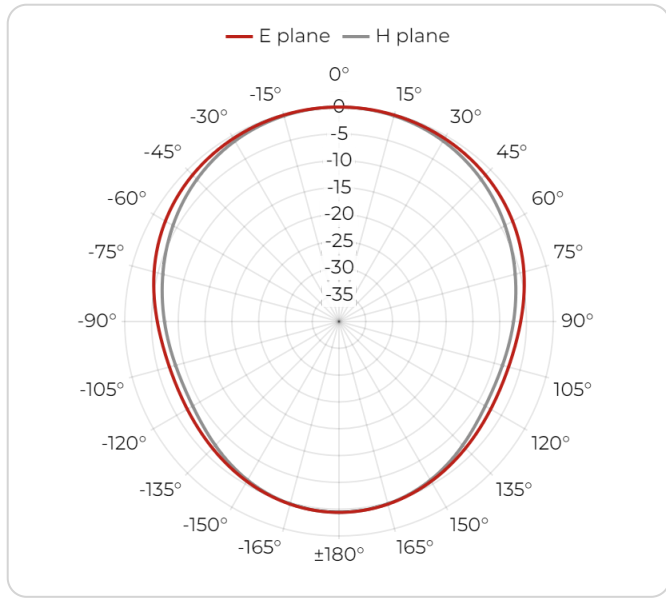


Beamwidth

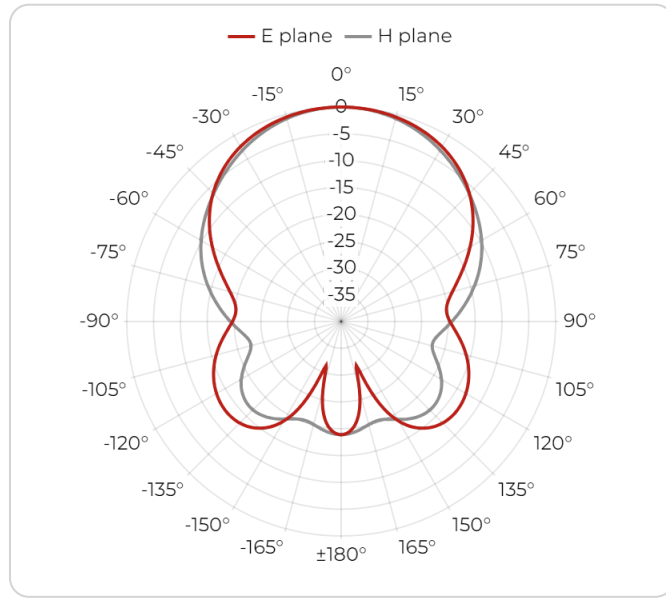


Radiation Patterns

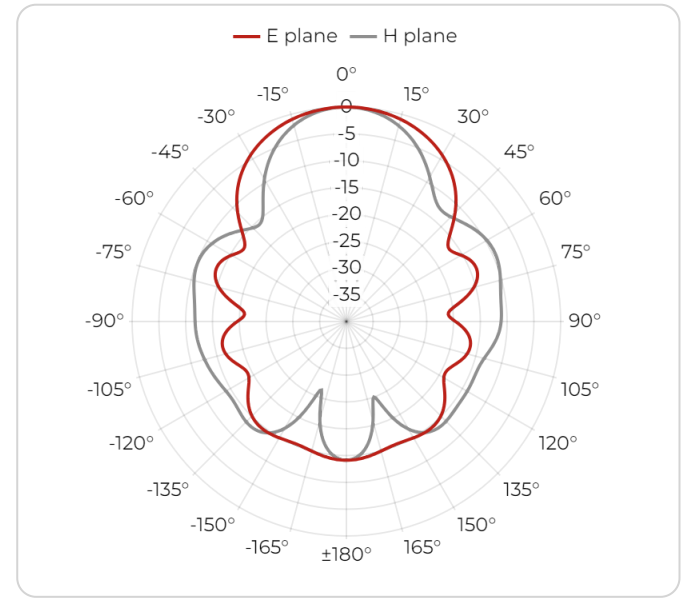
0.3 GHz



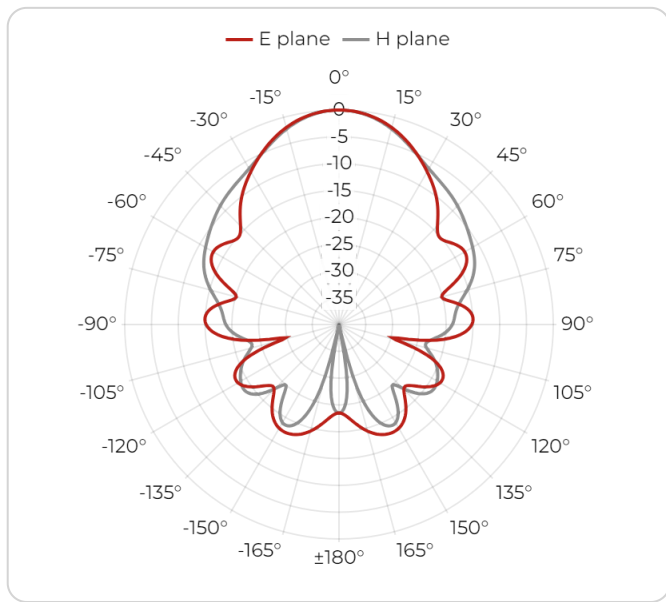
0.7 GHz



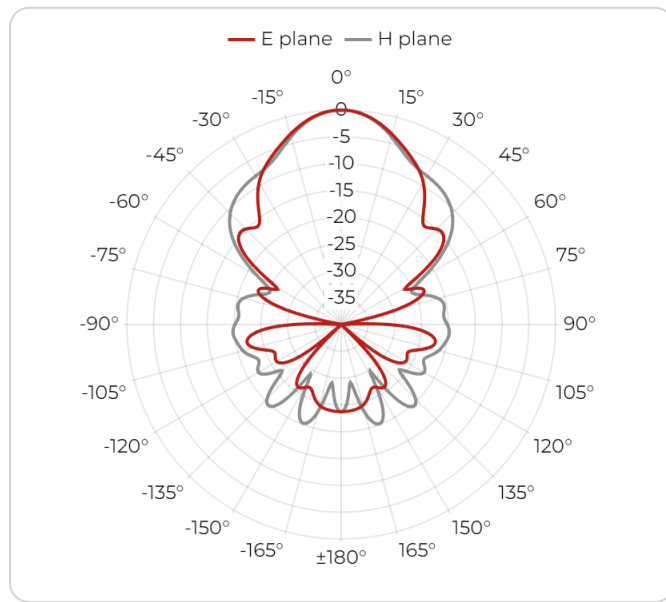
1.1 GHz



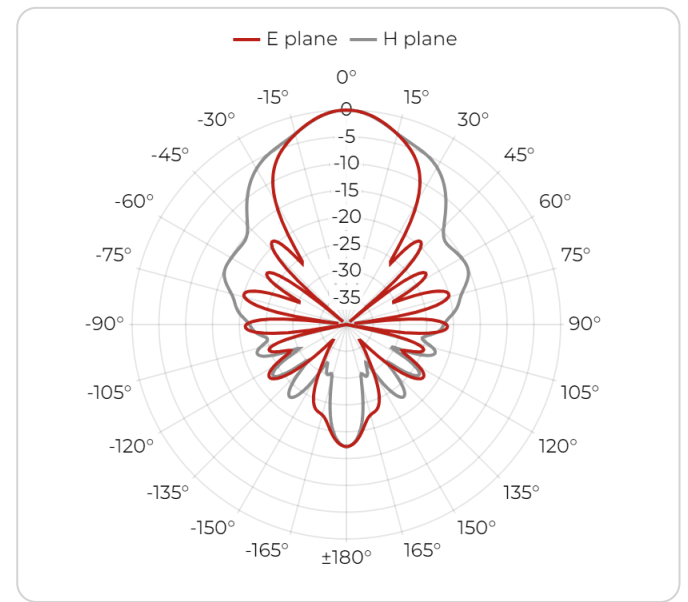
1.5 GHz



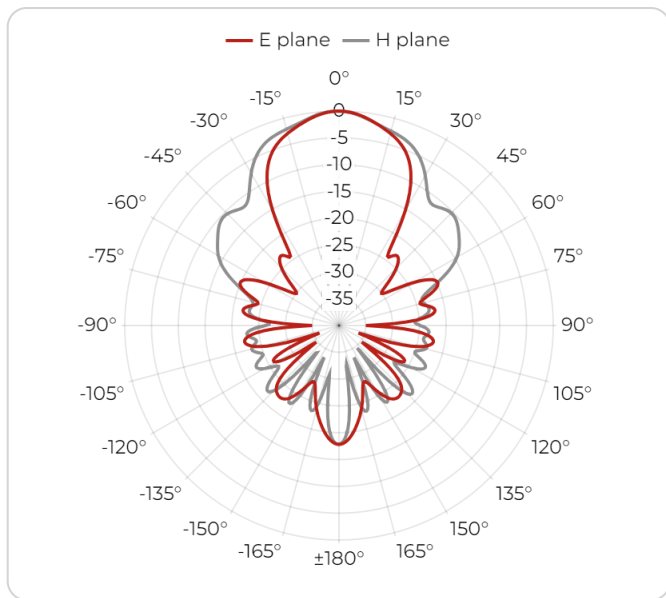
1.9 GHz



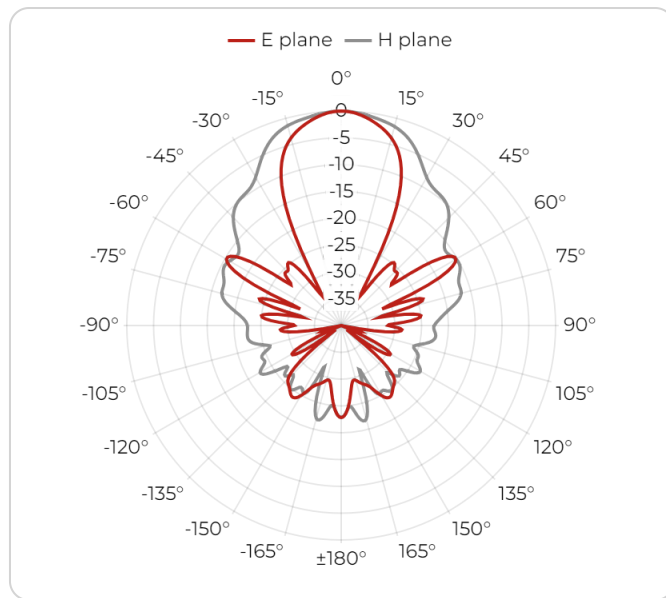
2.3 GHz



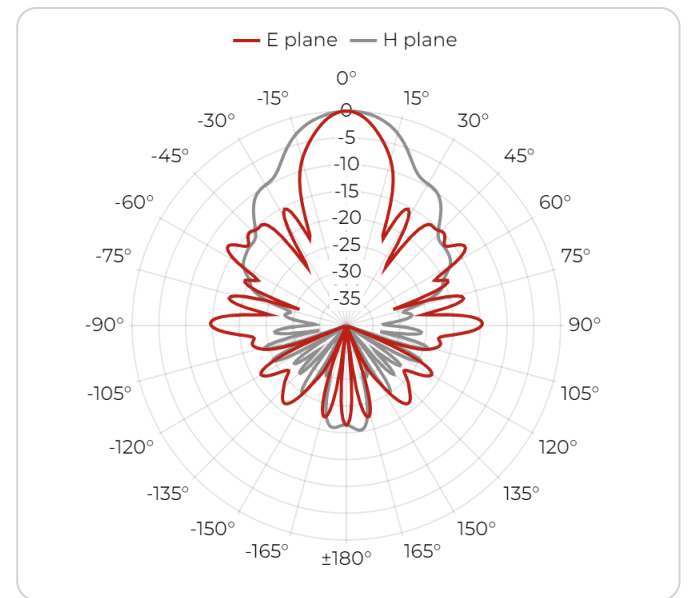
2.7 GHz



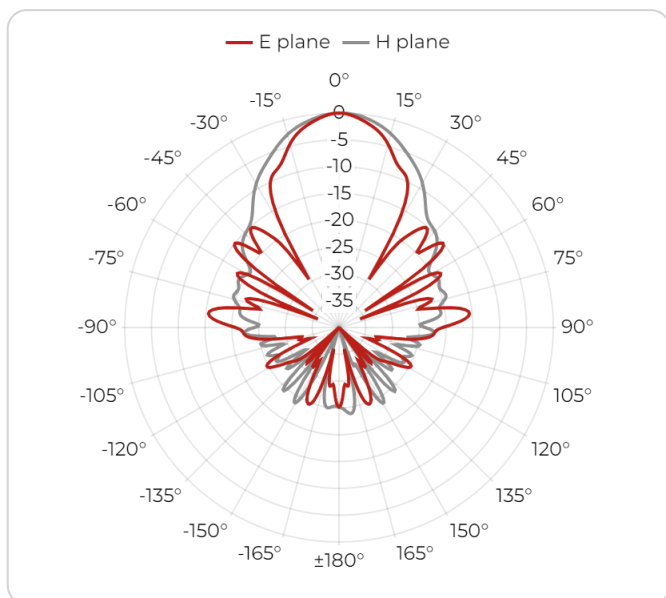
3.1 GHz



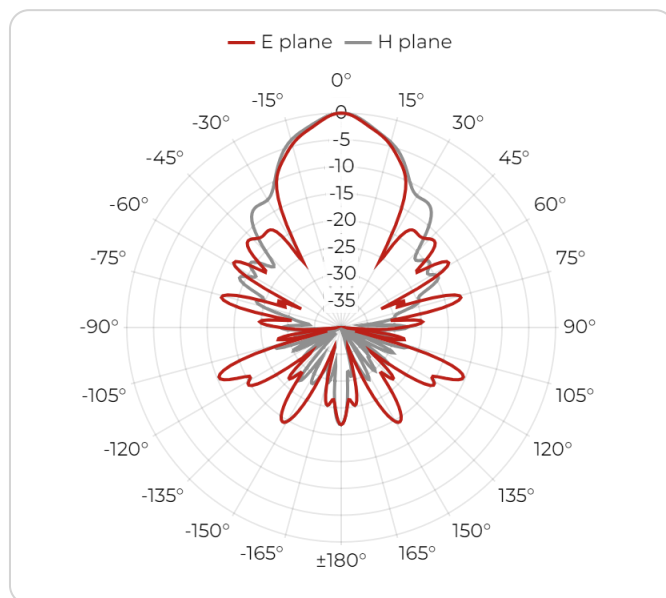
3.5 GHz



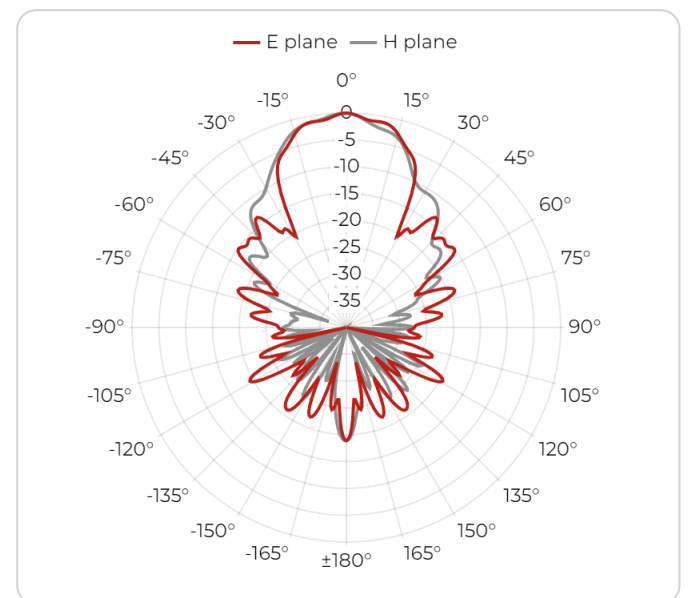
3.9 GHz



4.3 GHz



4.5 GHz



Packaging and Accessories

What's in a box

- DRH300 Antenna
- Factory calibration certificate
- Full calibration report of each antenna
- QR code accessing online portal
- Calibration test dataset (available online)
- Universal antenna mount

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/drh300/>

Data and specifications subject to change without notice.

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