



Specially developed for EMC/EMI testing. This antenna operates from 1GHz up to 18 GHz. Thanks to radome, this antenna is suitable for outdoor applications. It is equipped with the standard L-shape holder, hermetically sealed, and a Gore air vent.

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.

See the equivalent naked antenna **DRH18-E**

Features and Specifications



Technical Performance

- Wide bandwidth
- Low return loss
- Individual calibration
- Suitable for EMC/EMI applications



Design and Surface Treatment

- Includes standard mount



Manufacturing Technology

- Manufactured using a high grade aluminum alloy
- Extremely durable
- High quality SMA type coaxial connector



Product Packaging Includes

- Antenna
- Adapter with 1/4 inch inner thread, supplied with antenna

Product Parameters

PRODUCT IDENTIFICATION

Product Name	DRH18-ER
Product Category	Double Ridged Horn Outdoor Antenna

ELECTRICAL SPECIFICATIONS

Frequency Range	1 GHz – 18 GHz
VSWR (max.)	2.2
VSWR (avg.)	1.3
Impedance	50 Ohm
Connector	SMA (female)
Power (CW / Peak)	100 W / 170 W
Antenna Factor	23 – 44 dB/m
Polarization	Linear

PHYSICAL SPECIFICATIONS

Width	360 mm (14.173 in)
Height	293 mm (11.535 in)
Depth	360 mm (14.173 in)
Weight	2.7 kg (5.952 lb)

OPERATING CONDITIONS

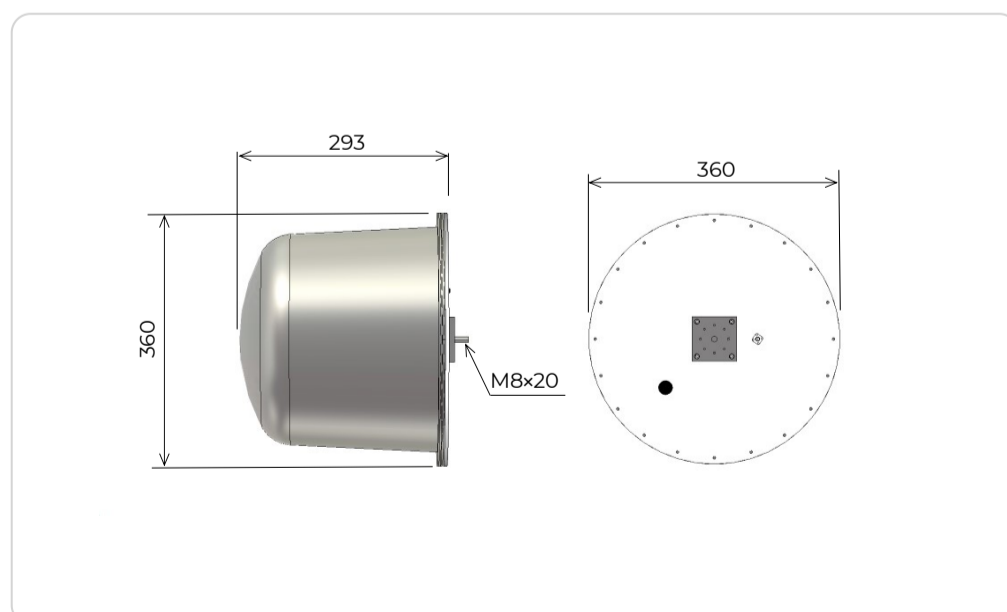
Rated Temperature Range	-10°C – +50°C
Storage Temperature Range	-20°C – +70°C

MOUNTING FLANGE

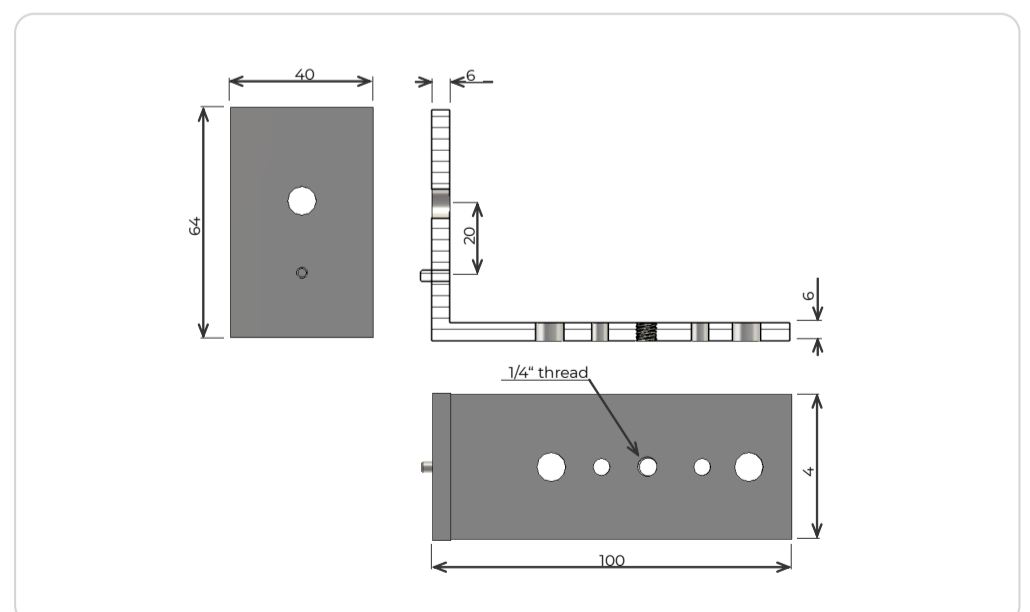
Mounting	Adapter with 1/4 inch inner thread, supplied with antenna
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Mechanical Drawings

Antenna



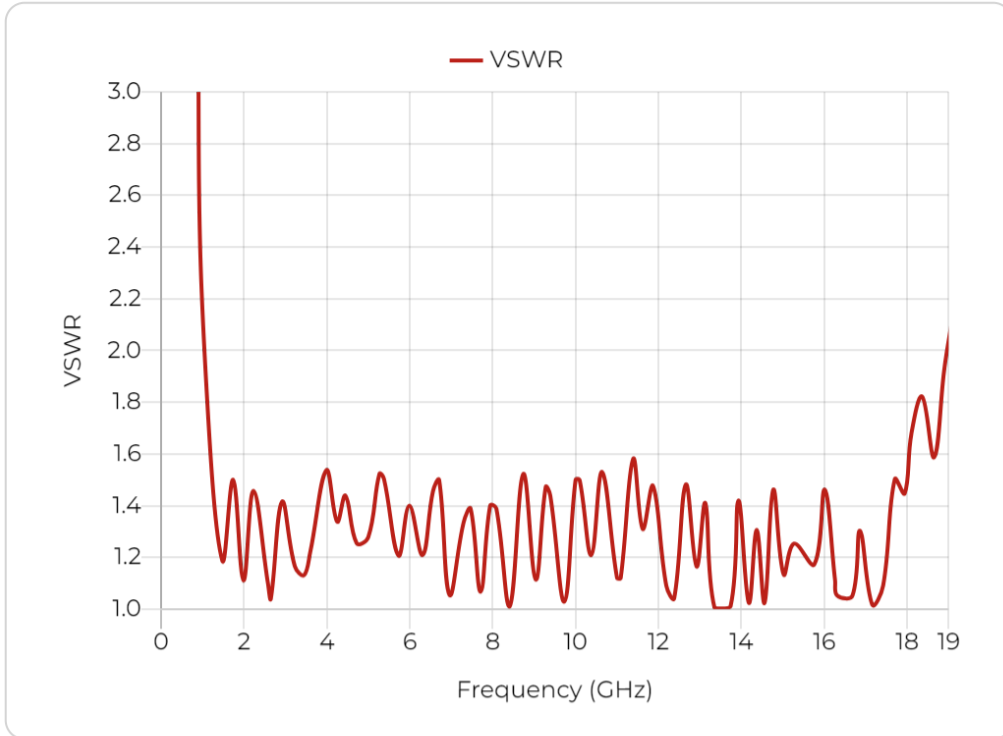
Mounting flange



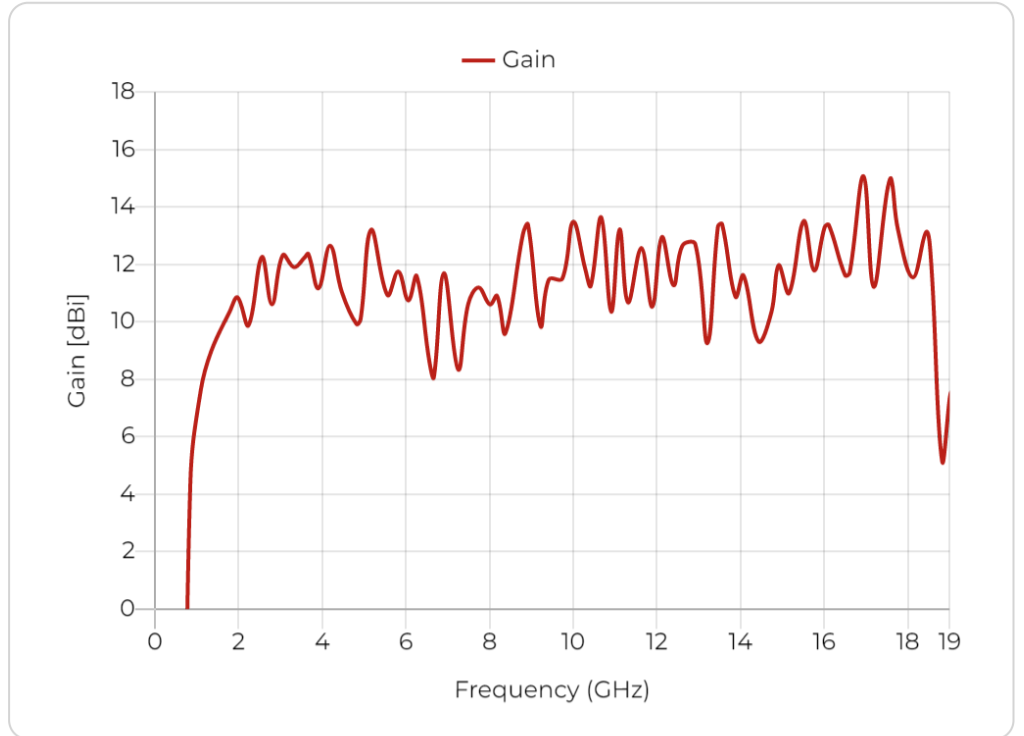
Parameters and Performance

Typical parameters

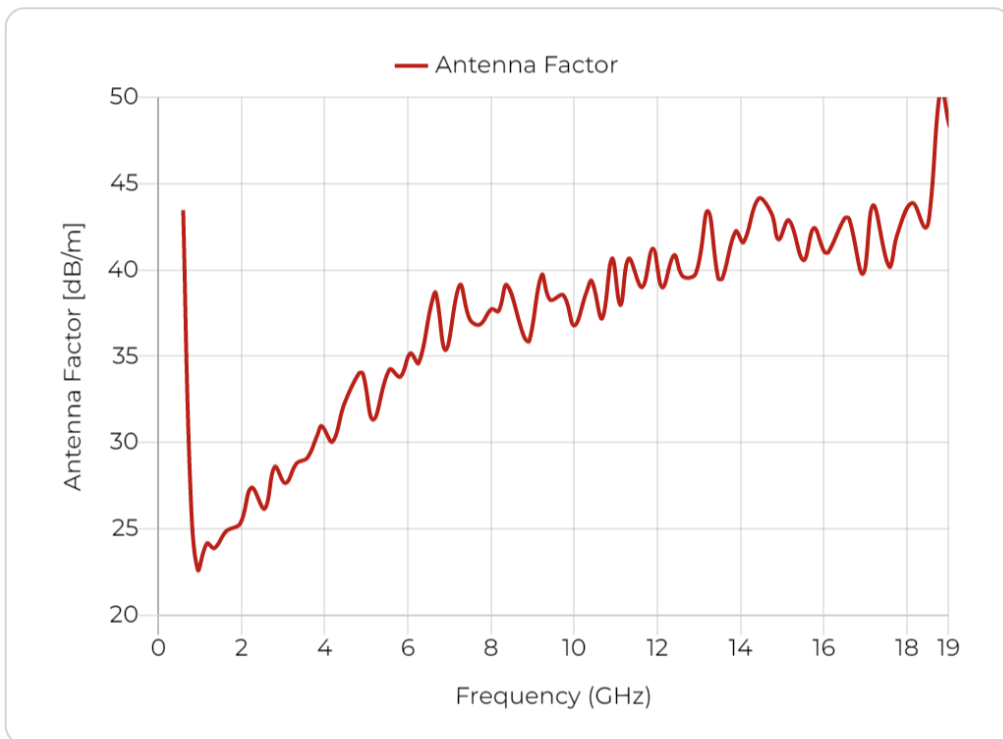
VSWR



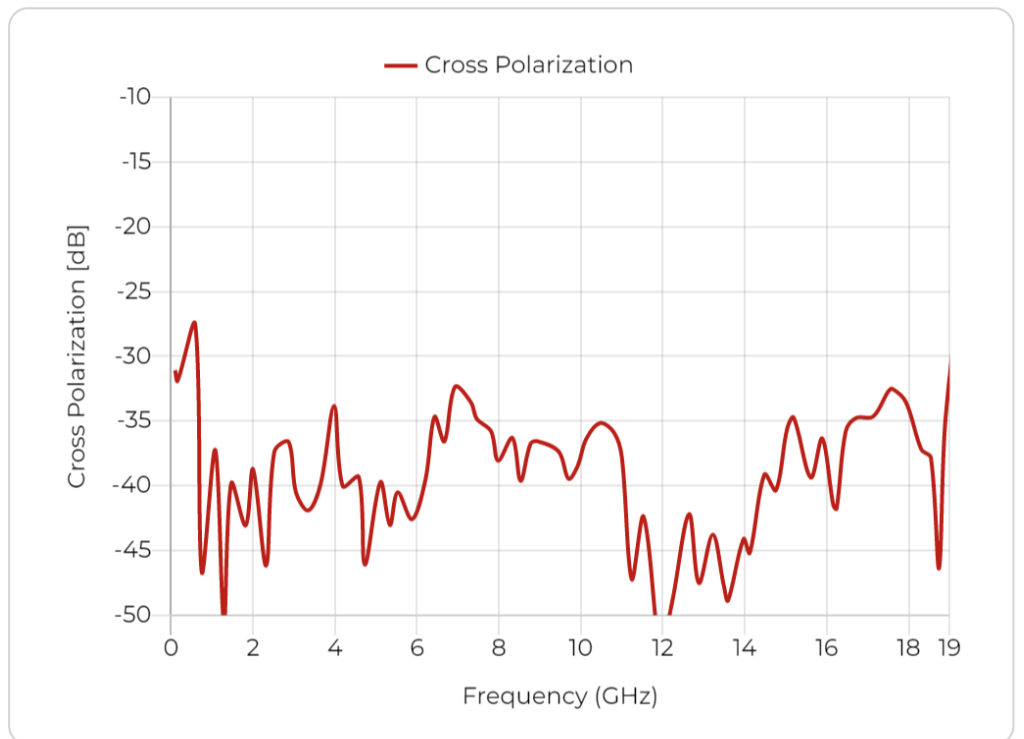
Gain



Antenna Factor

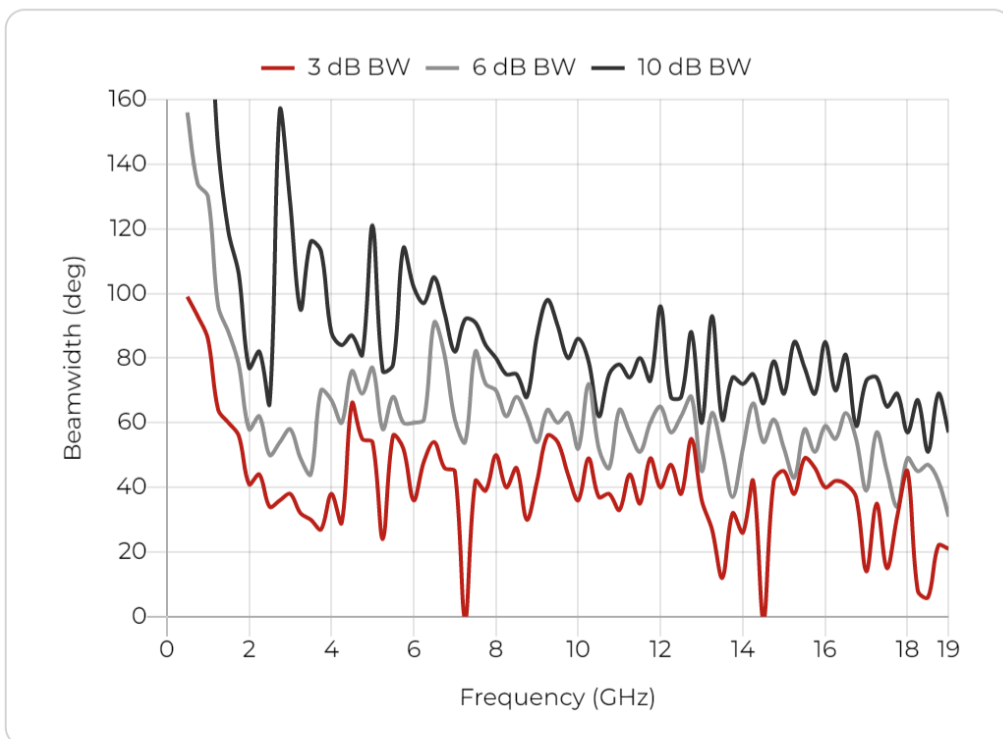


Cross Polarization

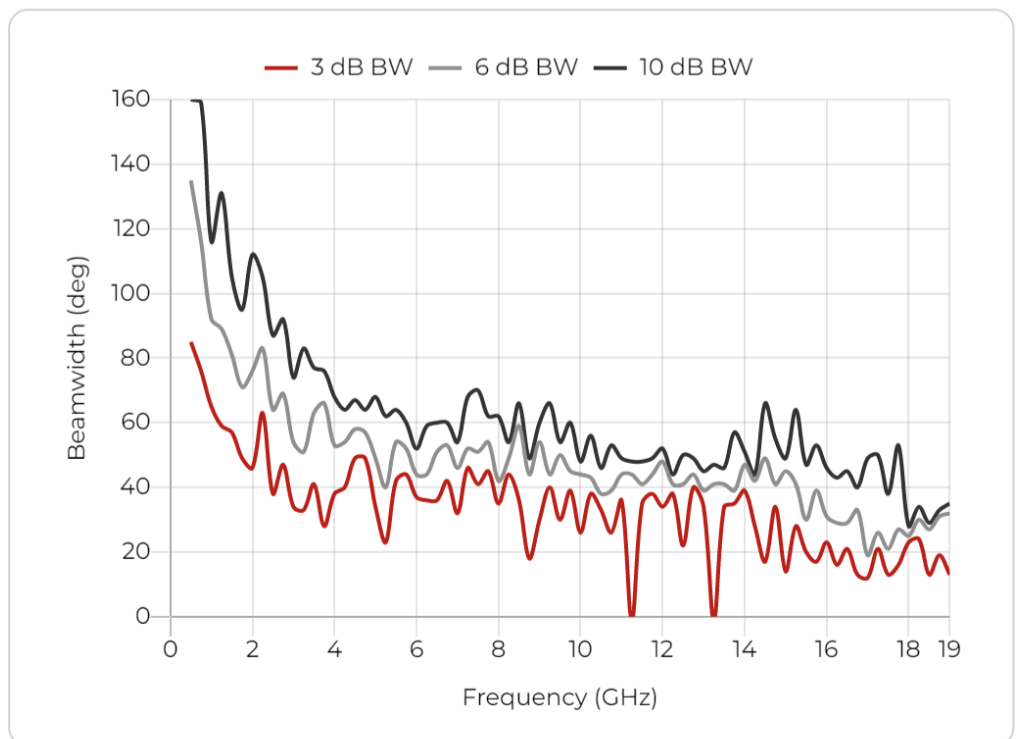


Beamwidth

Port A, E plane

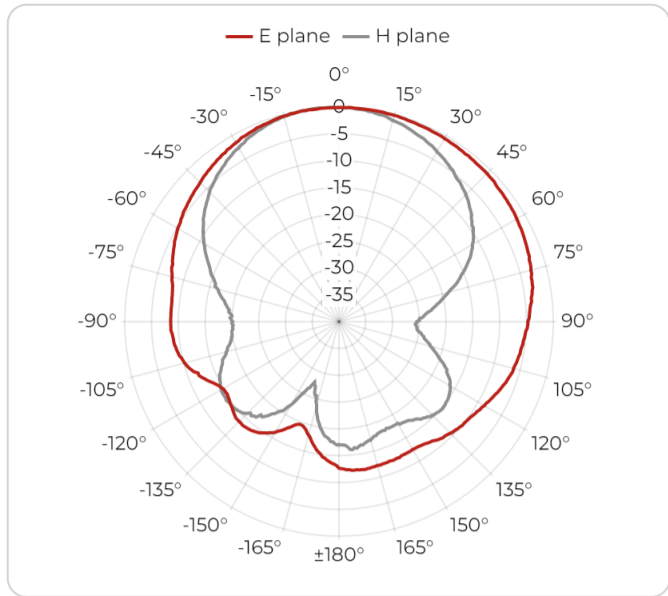


Port A, H plane

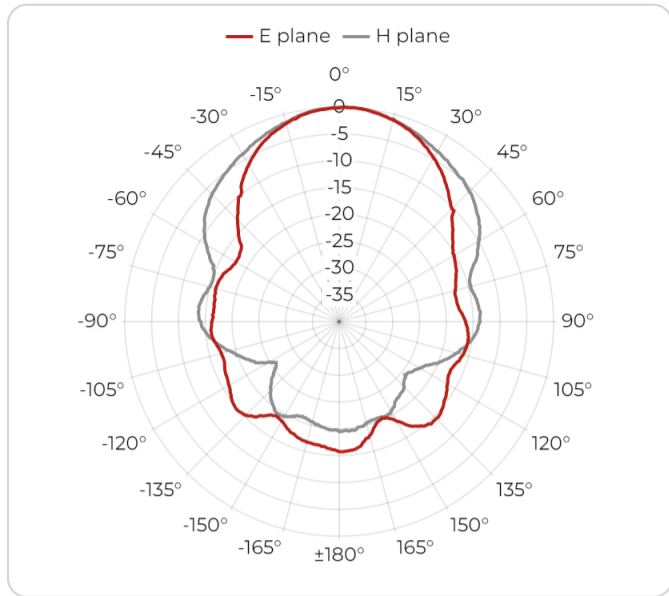


Radiation Patterns

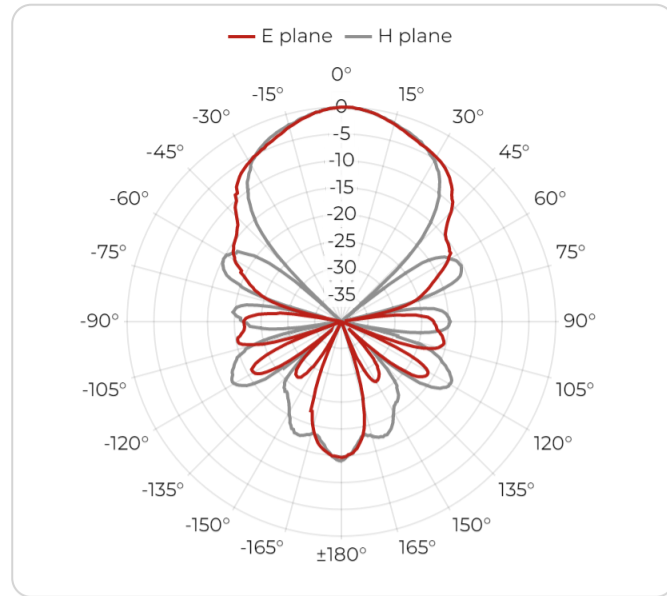
1 GHz



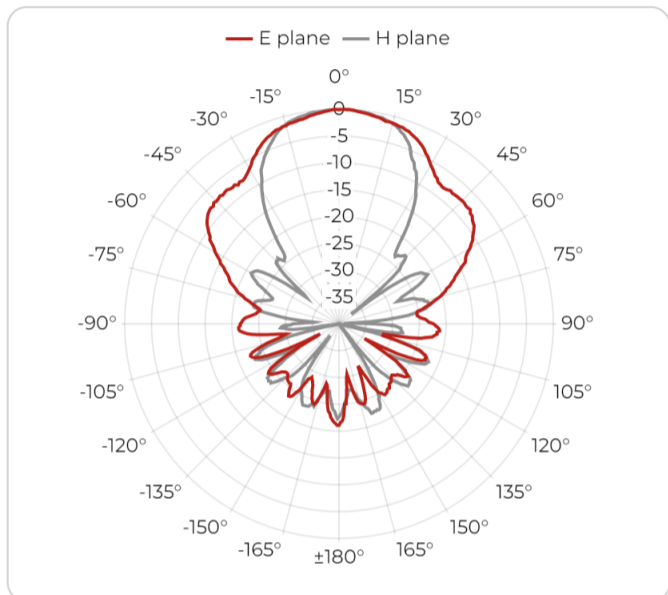
2 GHz



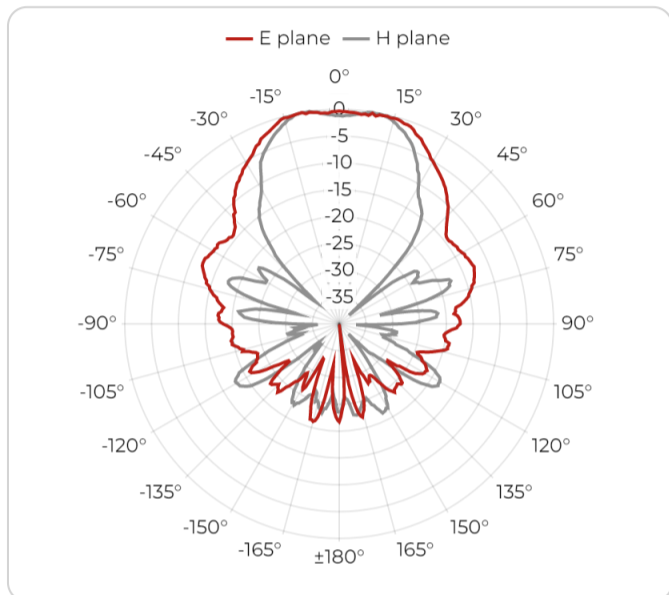
4 GHz



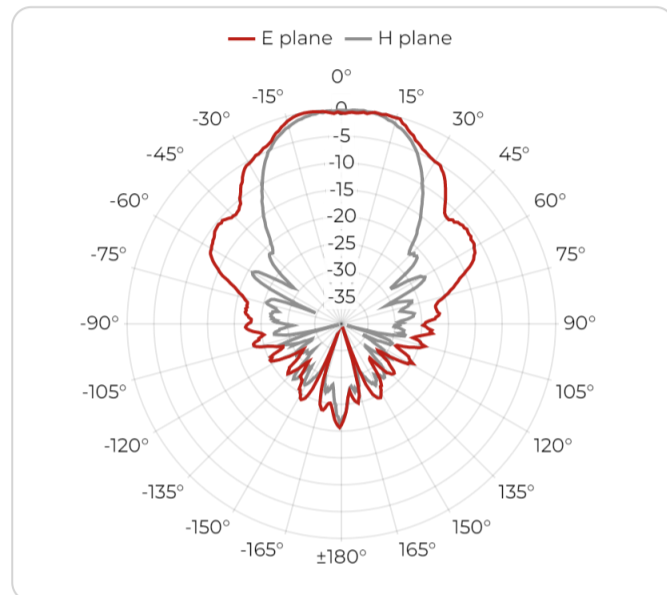
6 GHz



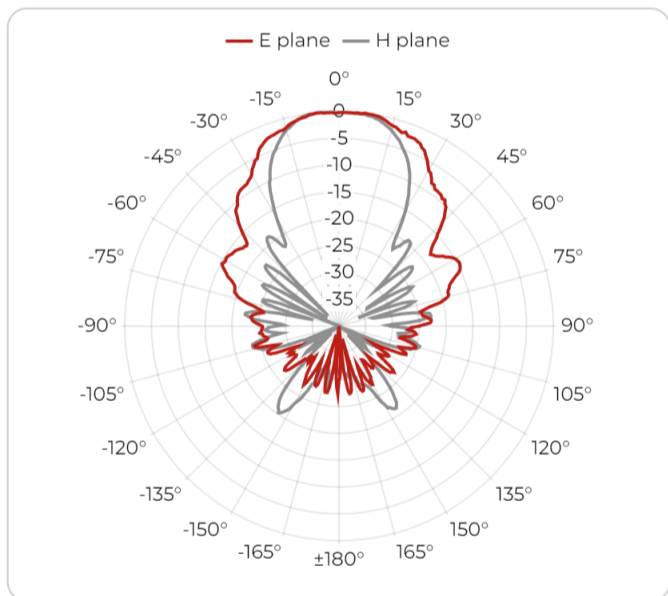
7 GHz



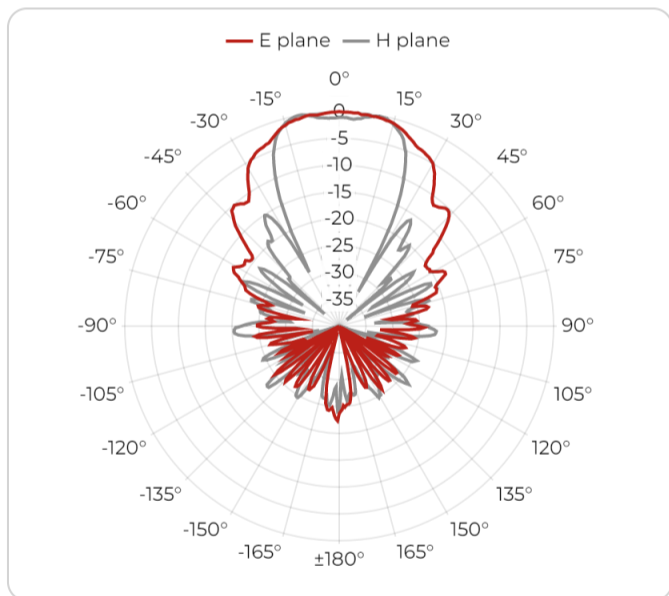
8 GHz



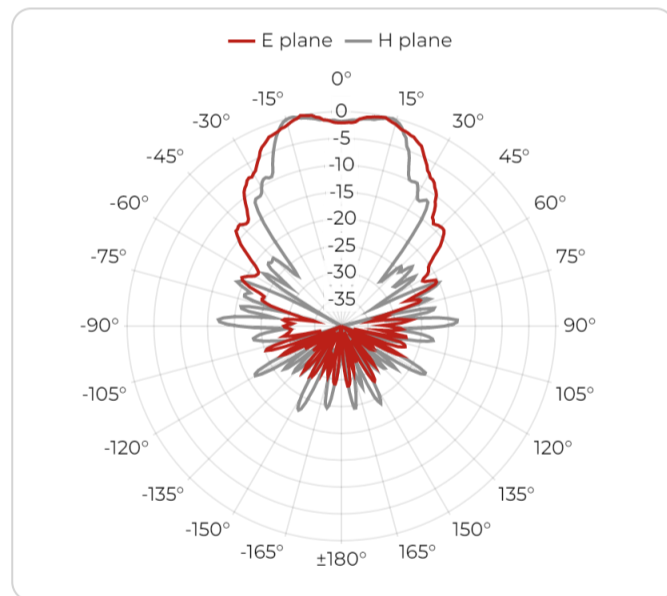
10 GHz



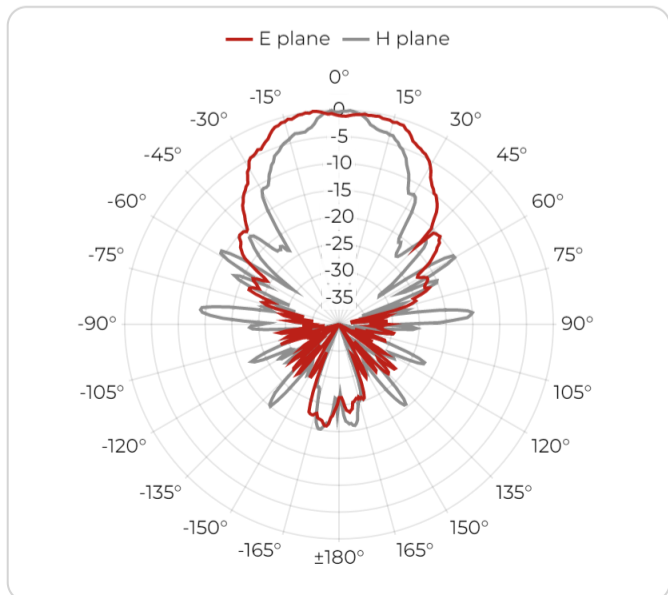
12 GHz



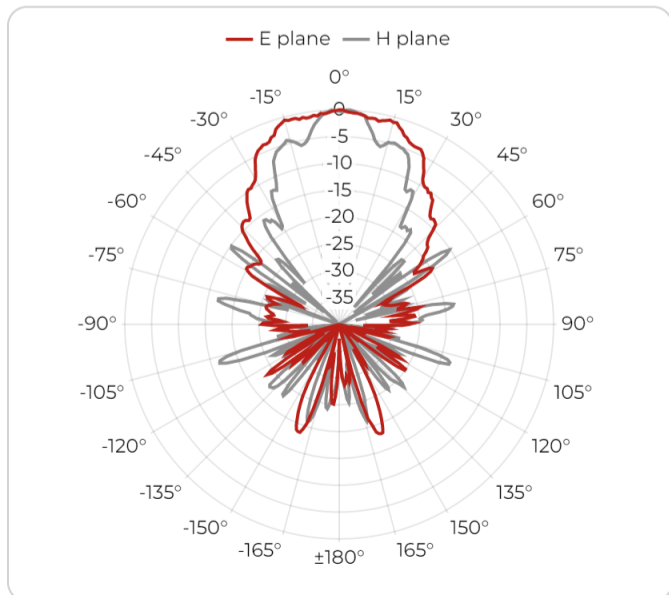
14 GHz



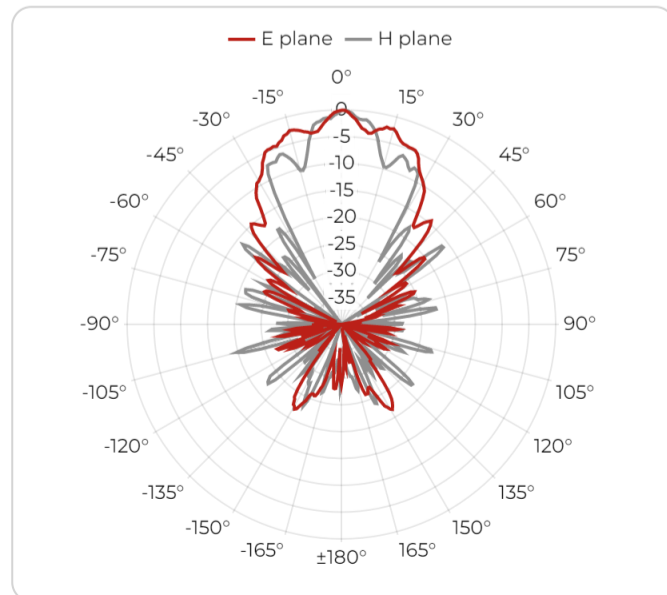
16 GHz



17 GHz



18 GHz



Packaging and Accessories

What's in a box

- DRH18-ER 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-HI Antenna Fixture](#)
- [PAS02 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/drh18-er/>

Data and specifications subject to change without notice.

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