



Double Ridged Horn Antenna

Specially developed for EMC/EMI testing. The addition of a spirit level is a matter of course, thanks to which your measurement in both planes will be very accurate and fun. Two options of antenna connector N or SMA.

Features and Specifications



Technical Performance

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



Design and Surface Treatment

- Corrosion-resistant coating
- Very precise spirit level



Manufacturing Technology

- Extremely durable
- High quality SMA type coaxial connector
- High quality N type coaxial connector



Product Packaging Includes

- Adapter with ¼ inch inner thread, supplied with antenna
- Linear polarized double ridged broadband horn antenna

Product Parameters

PRODUCT IDENTIFICATION

Product Name	DRH18-E
Product Category	Double Ridged Horn Antenna

ELECTRICAL SPECIFICATIONS

Frequency Range	1 GHz – 18 GHz
VSWR (max.)	2.2
VSWR (avg.)	1.2
Impedance	50 Ohm
Connector	N (female), SMA (female)
Power (CW / Peak)	100 W / 170 W
Antenna Factor	23 – 44 dB/m
Polarization	Linear

PHYSICAL SPECIFICATIONS

Width	243 mm (9.567 in)
Height	155 mm (6.102 in)
Depth	200 mm (7.874 in)
Weight	0.87 kg (1.918 lb)

OPERATING CONDITIONS

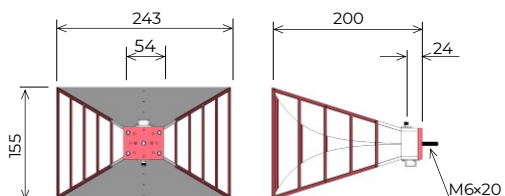
Rated Temperature Range	0°C – +50°C
Storage Temperature Range	-20°C – +70°C

MOUNTING FLANGE

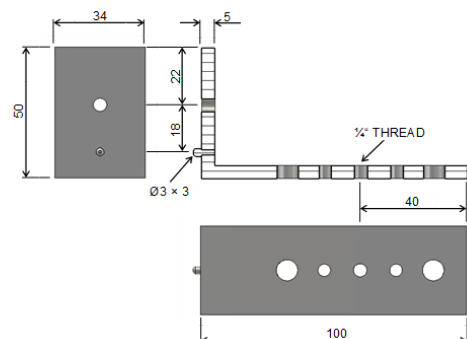
Mounting	Adapter with ¼ inch inner thread, supplied with antenna
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Mechanical Drawings

Antenna



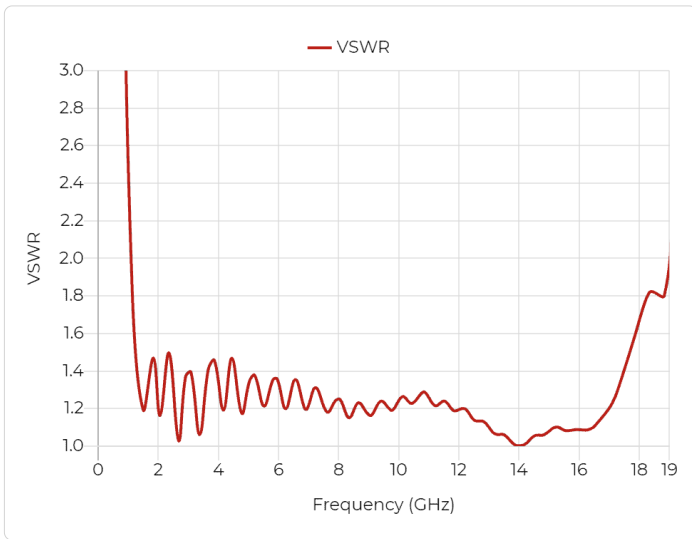
Mounting flange



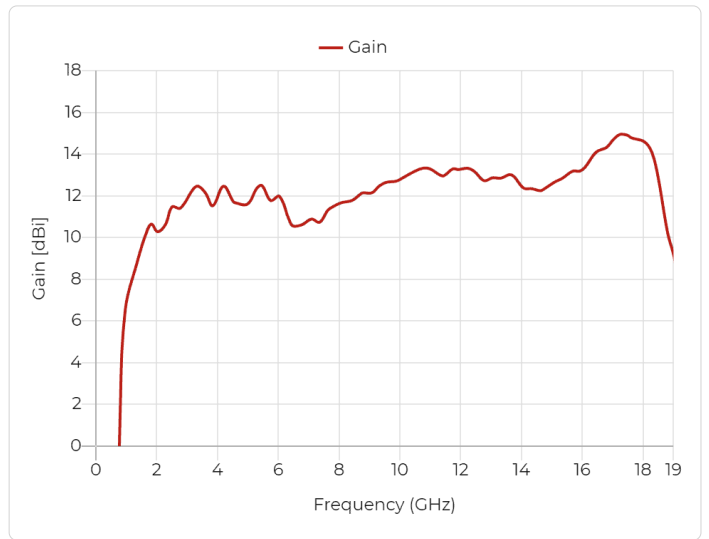
Parameters and Performance

Typical parameters

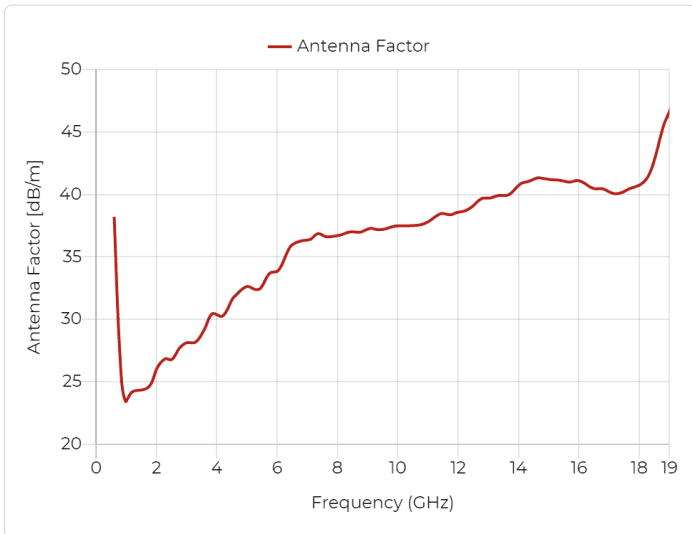
VSWR



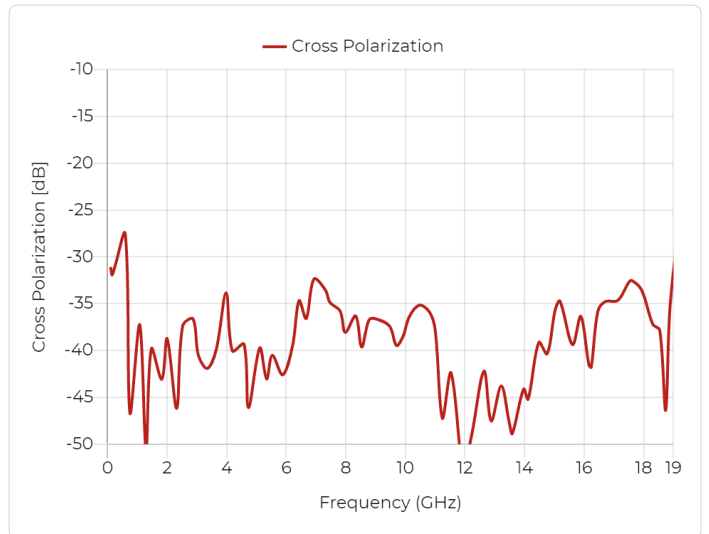
Gain



Antenna Factor

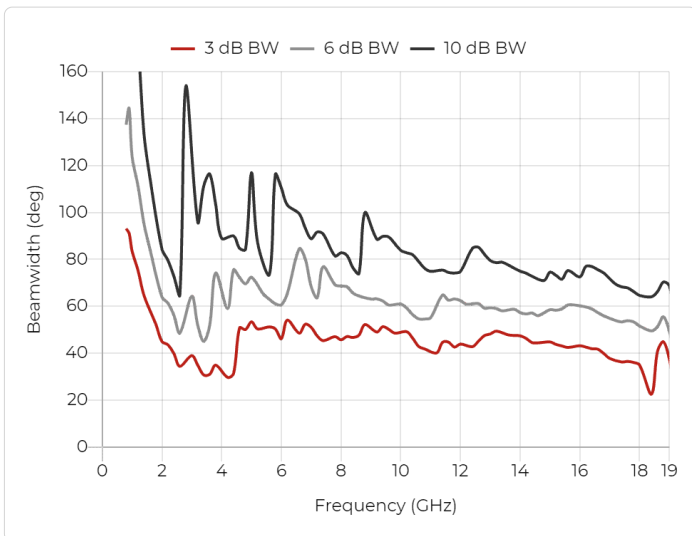


Cross Polarization

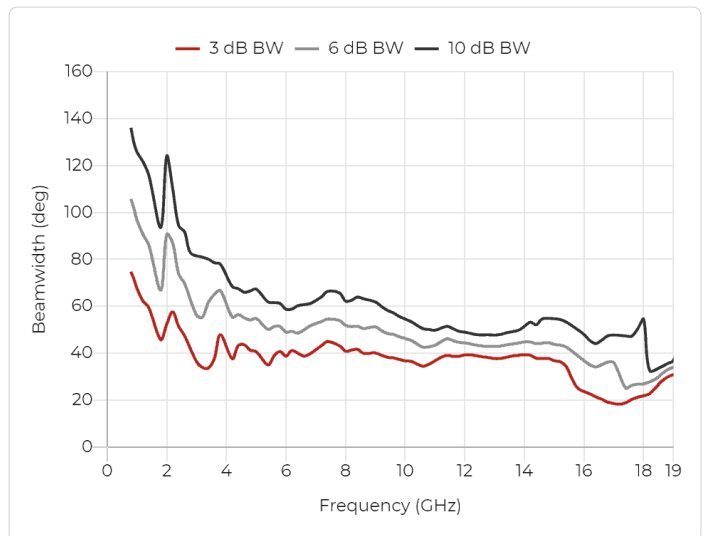


Beamwidth

Port A, E plane

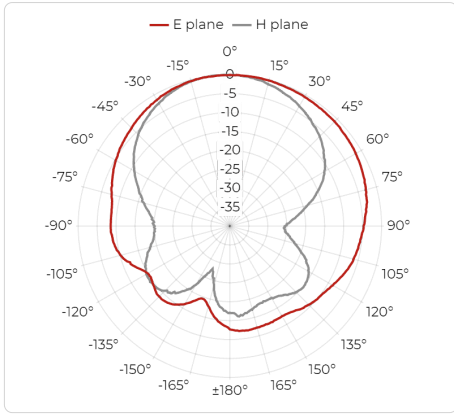


Port A, H plane

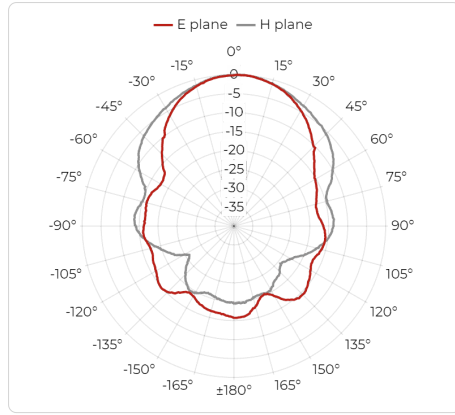


Radiation Patterns

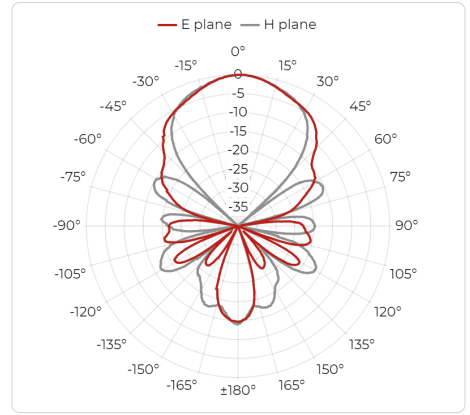
1 GHz



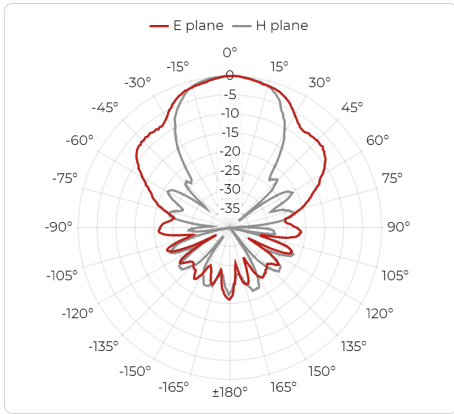
2 GHz



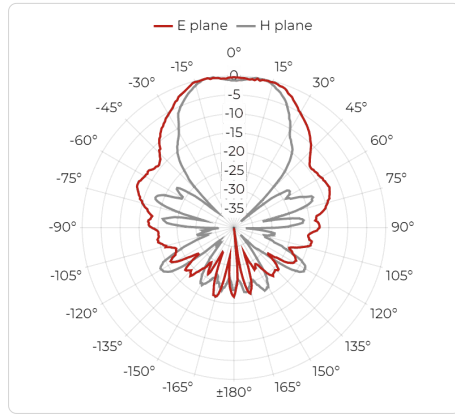
4 GHz



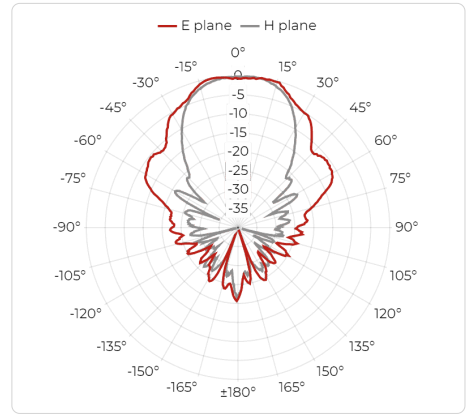
6 GHz



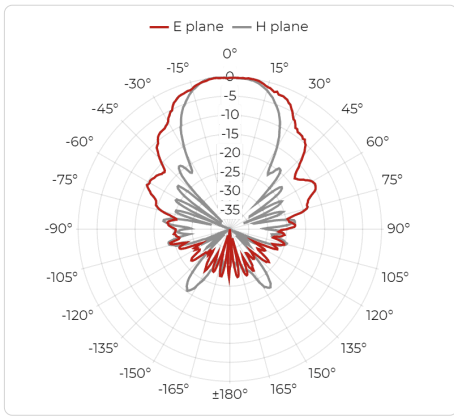
7 GHz



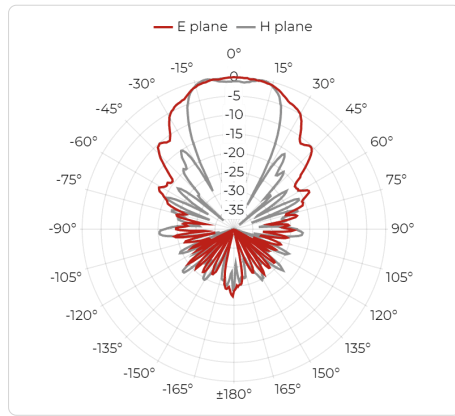
8 GHz



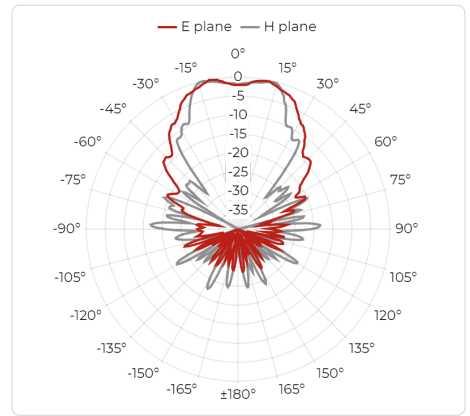
10 GHz



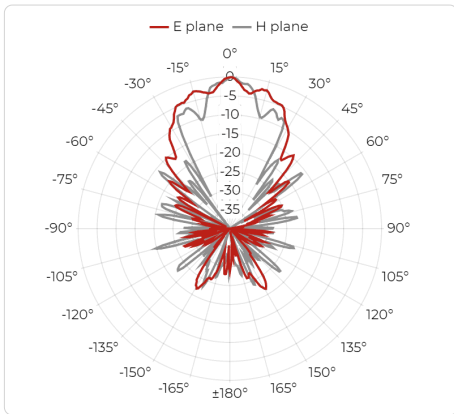
12 GHz



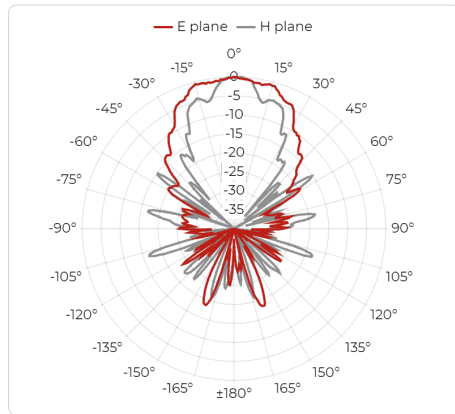
14 GHz



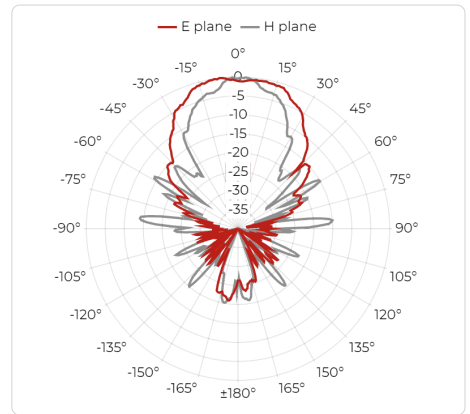
18 GHz



17 GHz



16 GHz



Packaging and Accessories

What's in a box

- DRH18-E 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

Optional Accessories

- AHS22-HI Antenna Fixture
- PAS02 Antenna Stand

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/drh18-e/>

Data and specifications subject to change without notice.

Datasheet revision 04-2022.

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