

Double Ridged Horn Antenna

DRH0844 is a broadband horn antenna with K connector covering frequency band 8 GHz – 44 GHz. This antenna goes up to the limit, with a high Gain of 20dB.



Features and Specifications



Technical Performance

- Wide bandwidth
- Low return loss
- Individual calibration
- Covers 5G frequency band



Design and Surface Treatment

- Corrosion-resistant coating
- Includes standard mount



Manufacturing Technology

- High quality 2.92mm type coaxial connector
- Extremely durable



Product Packaging Includes

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

Product Parameters

PRODUCT IDENTIFICATION

Product Name	DRH0844
Product Category	Double Ridged Horn Antenna

ELECTRICAL SPECIFICATIONS

Frequency Range	8 GHz – 44 GHz
VSWR (max.)	2
VSWR (avg.)	1.3
Impedance	50 Ohm
Connector	K (female)
Power (CW / Peak)	15 W / 30 W
Antenna Factor	32 – 40 dB/m
Polarization	Linear

PHYSICAL SPECIFICATIONS

Width	87 mm (3.425 in)
Height	63 mm (2.480 in)
Depth	220 mm (8.661 in)
Weight	0.512 kg (1.129 lb)

OPERATING CONDITIONS

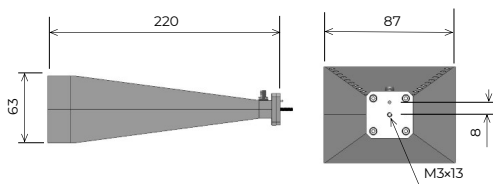
Rated Temperature Range	0°C – +50°C
Storage Temperature Range	-20°C – +70°C

MOUNTING FLANGE

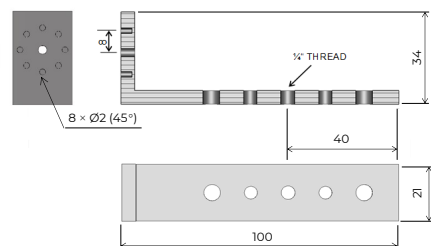
Mounting	Adapter with ¼ inch inner thread, supplied with antenna
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Mechanical Drawings

Antenna



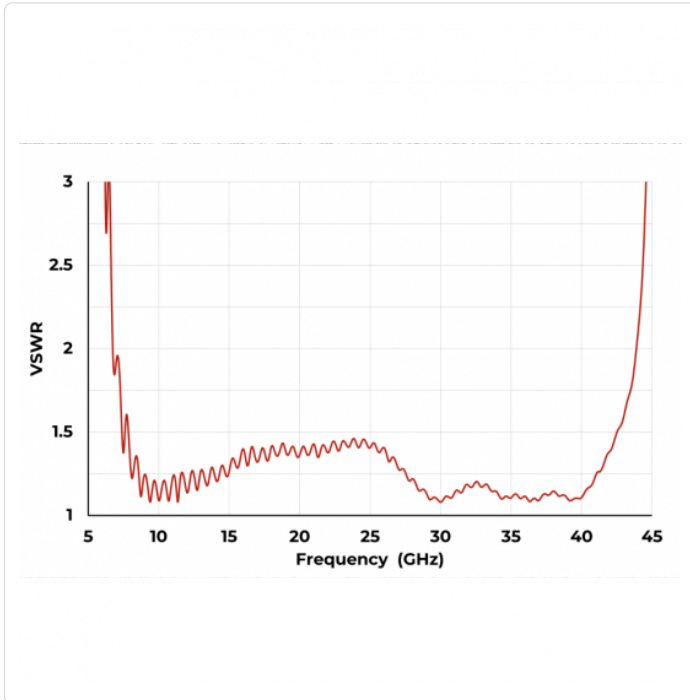
Mounting flange



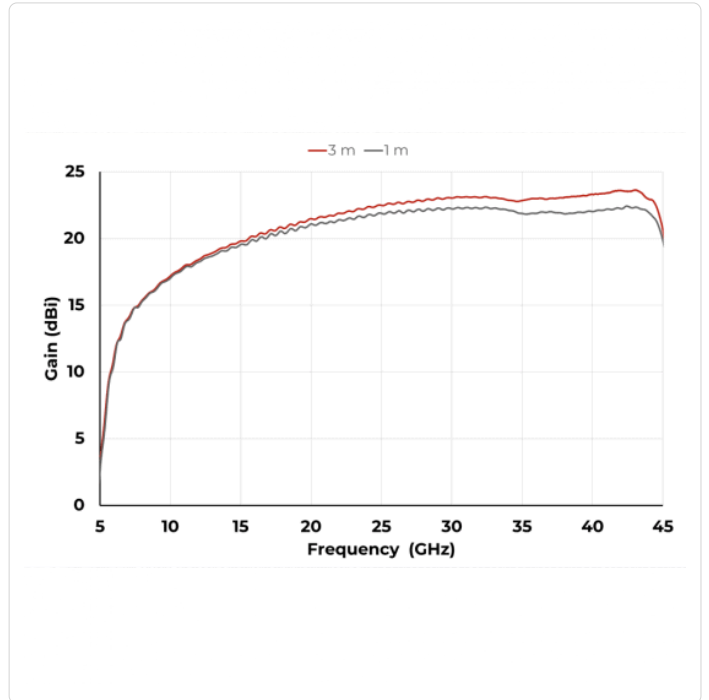
Parameters and Performance

Typical parameters

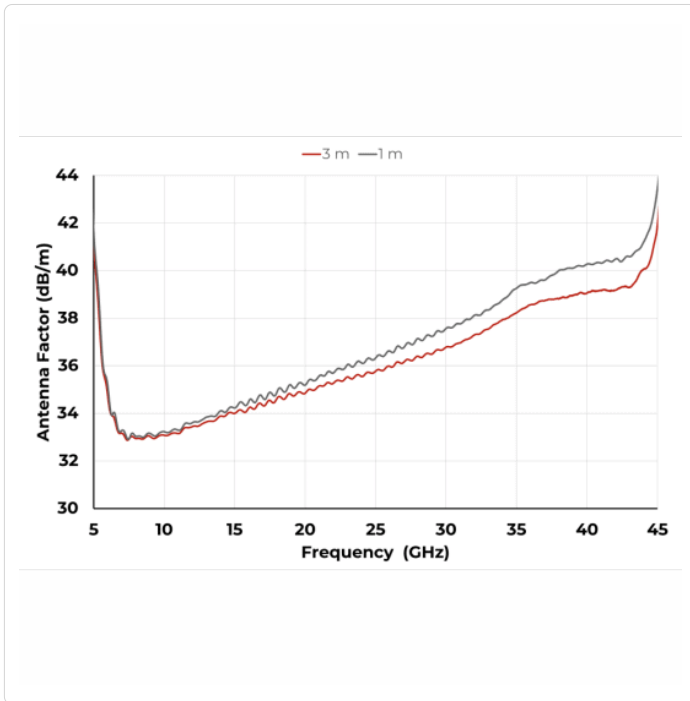
VSWR



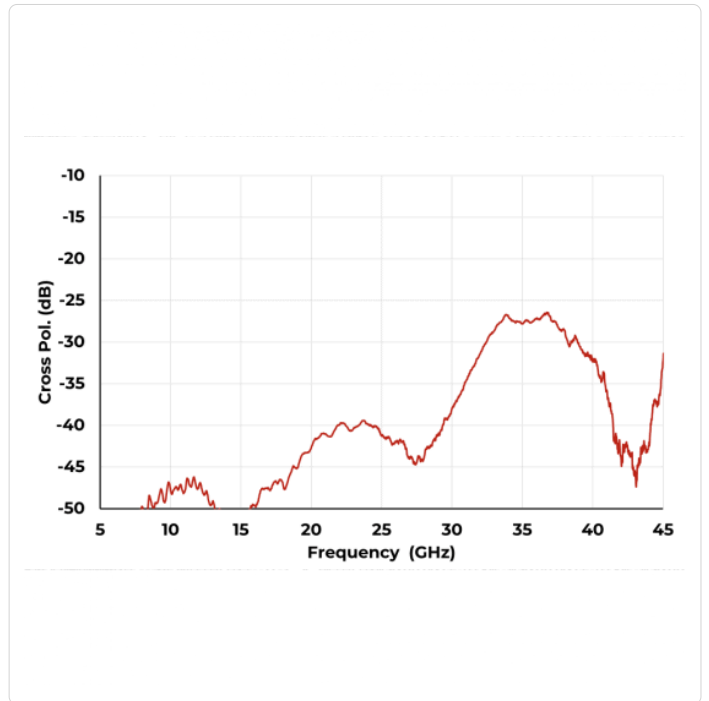
Gain



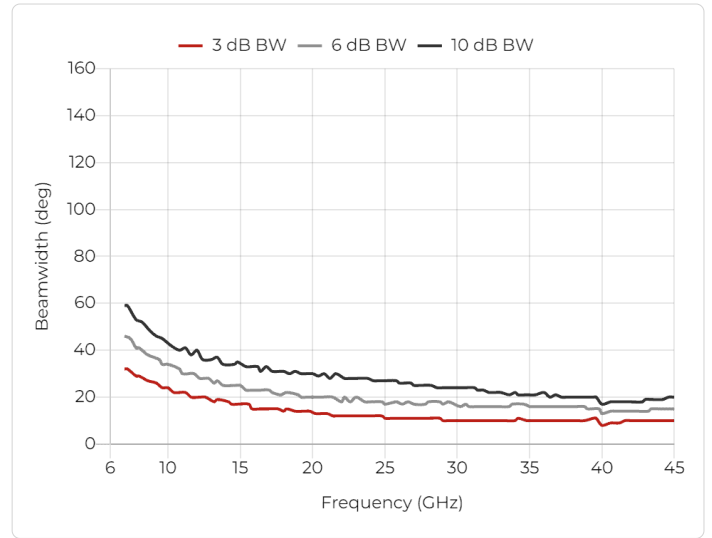
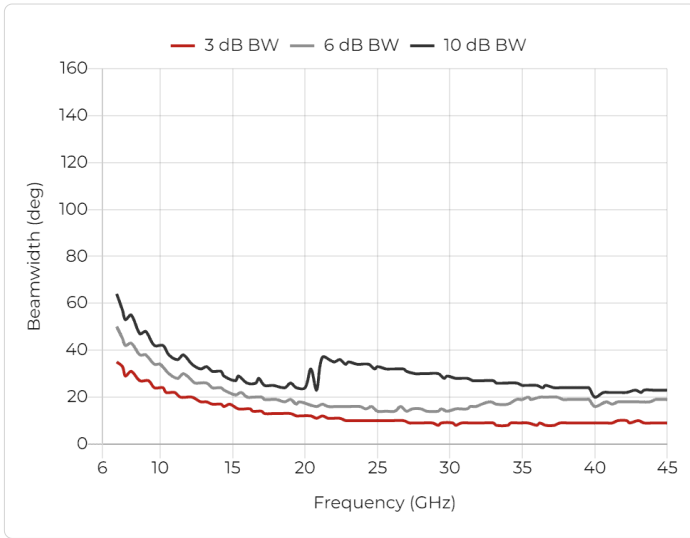
AF



Cross Polarization

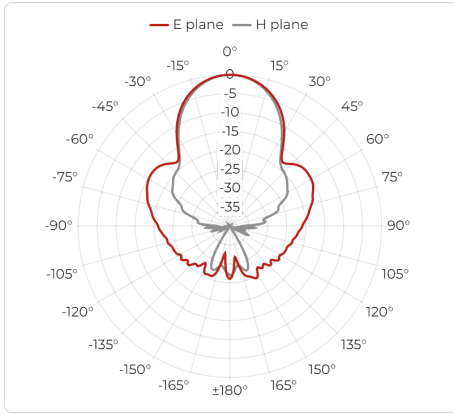


Beamwidth

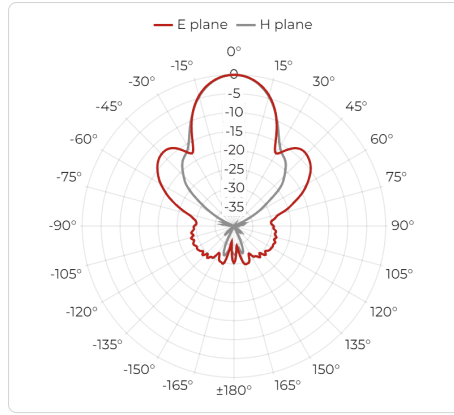


Radiation Patterns

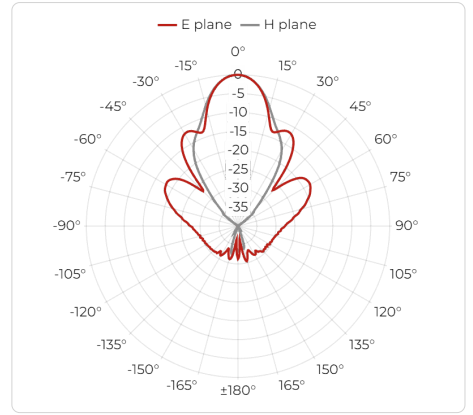
8 GHz



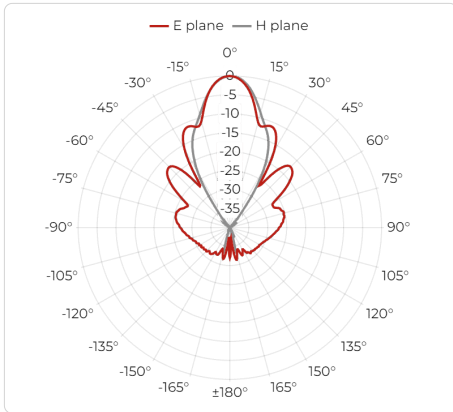
10 GHz



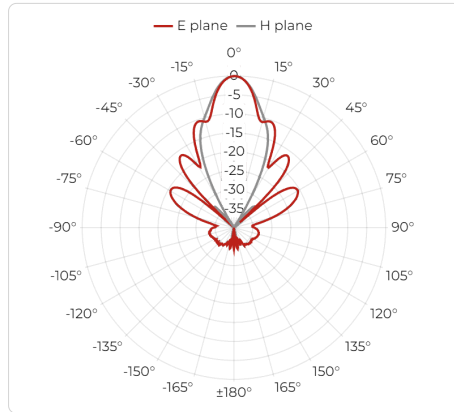
14 GHz



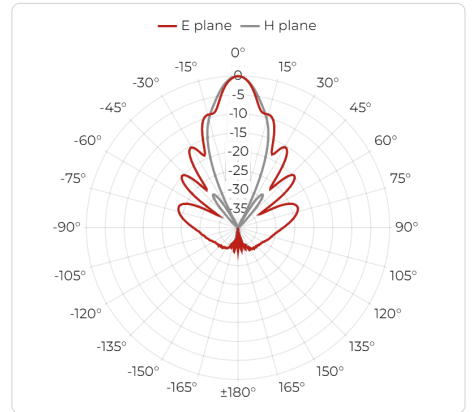
17 GHz



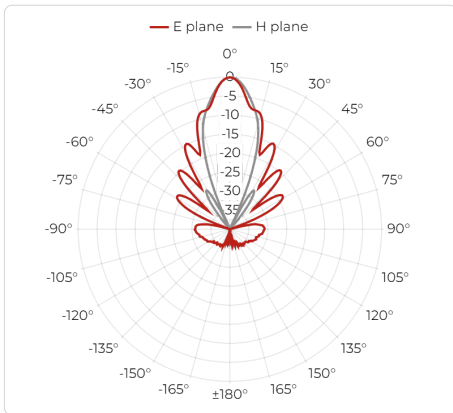
20 GHz



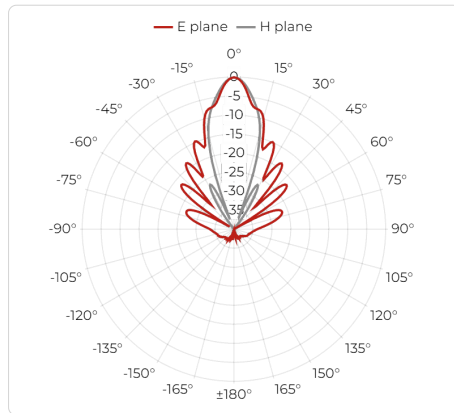
23 GHz



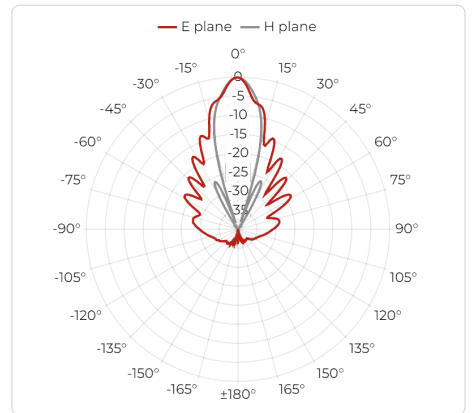
26 GHz



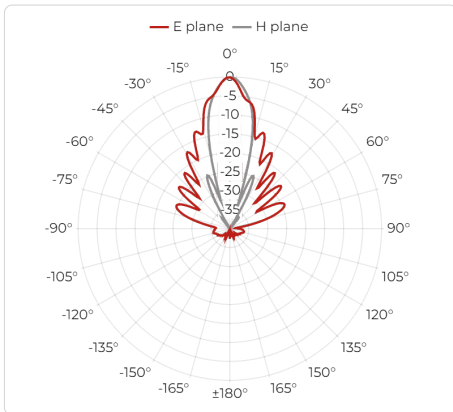
29 GHz



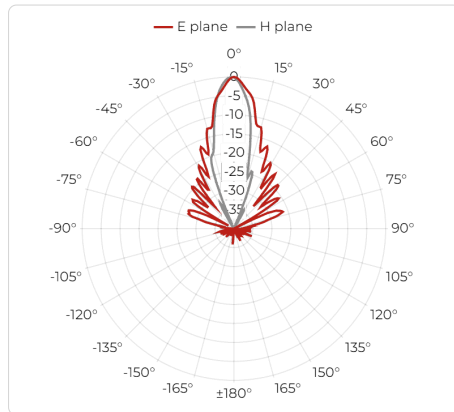
32 GHz



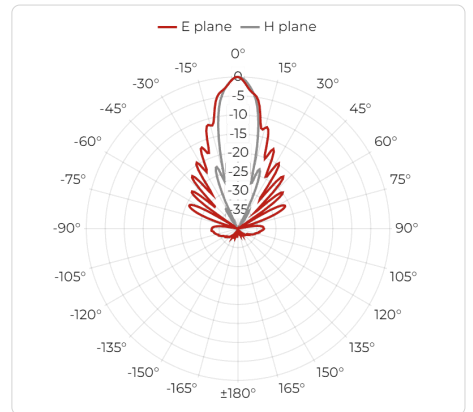
35 GHz



40 GHz



44 GHz



Packaging and Accessories

What's in a box

- DRH0844 Antenna
- Antenna specific mount adapter with $\frac{1}{4}$ 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**

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/drh0844/>

Data and specifications subject to change without notice.

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