

The DRH818 is a Double Ridged Horn antenna with a frequency of 7.5 GHz up to 18 GHz. The advantage of DRH818 is a stable Gain 18 – 21 dBi and accepting high power up to 2.5 kW. Thanks to smart engineering the DRH818 weighs only 0.8 kg. RF SPIN offers also a suitable Waveguide to Coax Adapter ADRWC750.

Features and Specifications



Technical Performance

- Wide bandwidth
- Low return loss
- Individual calibration



Design and Surface Treatment

- Corrosion-resistant coating
- Includes standard mount



Manufacturing Technology

- Manufactured using a high grade aluminum alloy
- Extremely durable



Product Packaging Includes

- Linear polarized double ridged broadband horn antenna
- Universal antenna mount

Product Parameters

PRODUCT IDENTIFICATION

Product Name	DRH818
Product Category	Double Ridged Horn Antenna

ELECTRICAL SPECIFICATIONS

Frequency Range	7.5 GHz – 18 GHz
VSWR (max.)	1.18
VSWR (avg.)	1.1
Waveguide Size	WRD750
Waveguide Flange	FPWRD750D24
Power (CW / Peak)	1000 W / 2500 W
Antenna Factor	28 – 35 dB/m
Polarization	Linear

PHYSICAL SPECIFICATIONS

Width	179.6 mm (7.071 in)
Height	109.6 mm (4.315 in)
Depth	265 mm (10.433 in)
Weight	0.855 kg (1.885 lb)

OPERATING CONDITIONS

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

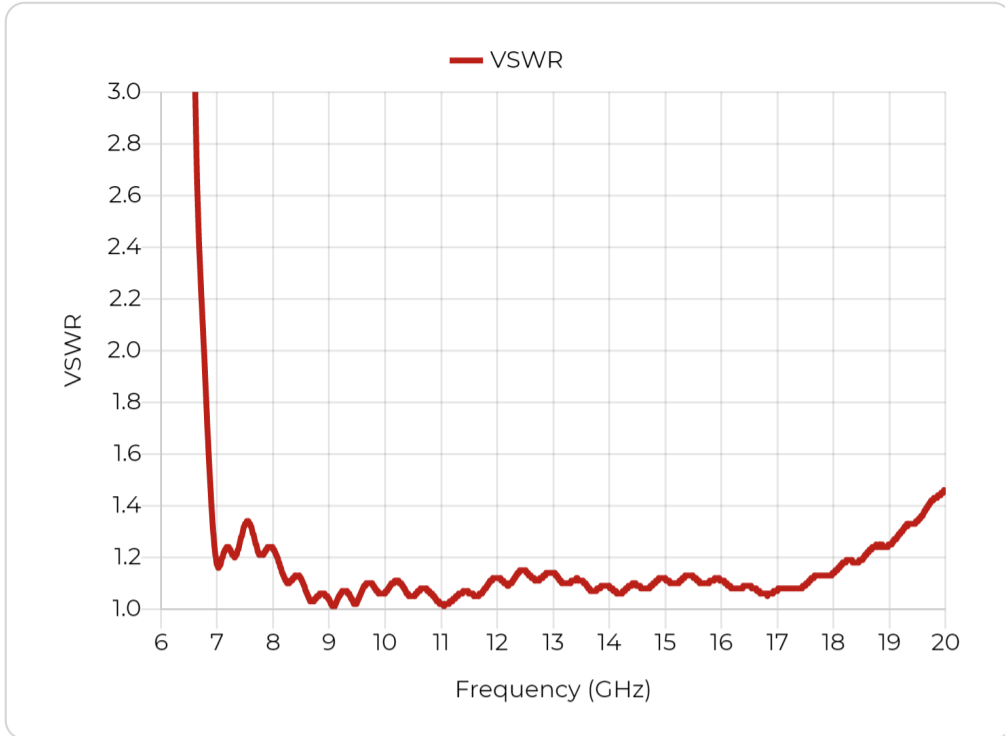
MOUNTING FLANGE

Mounting	Universal antenna mount
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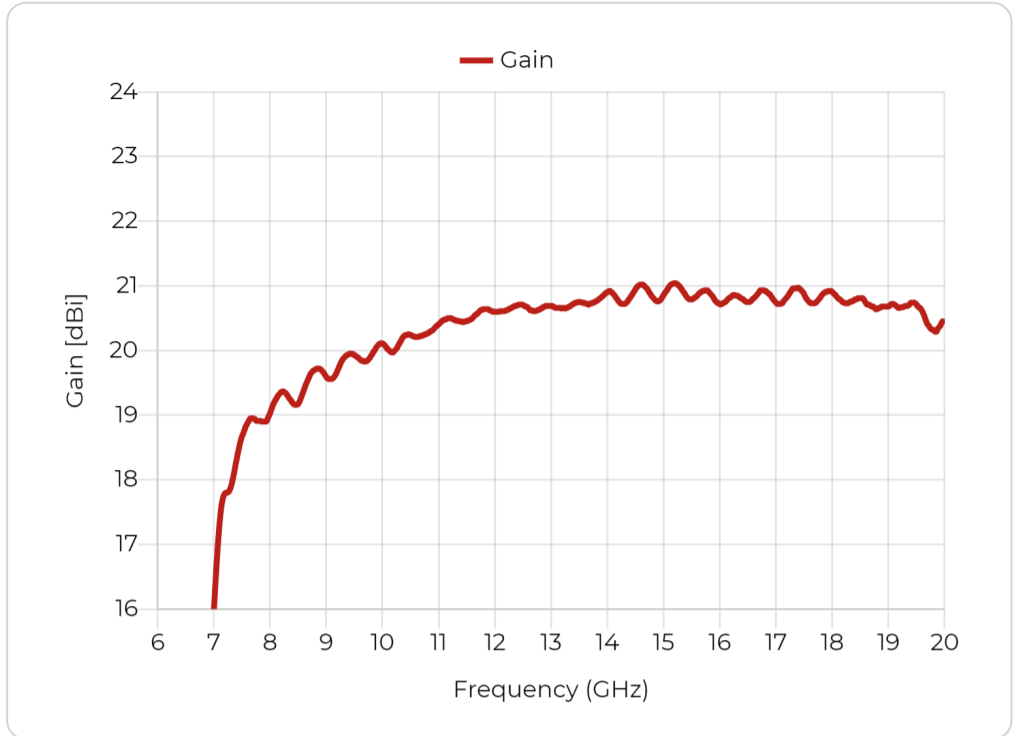
Parameters and Performance

Typical parameters

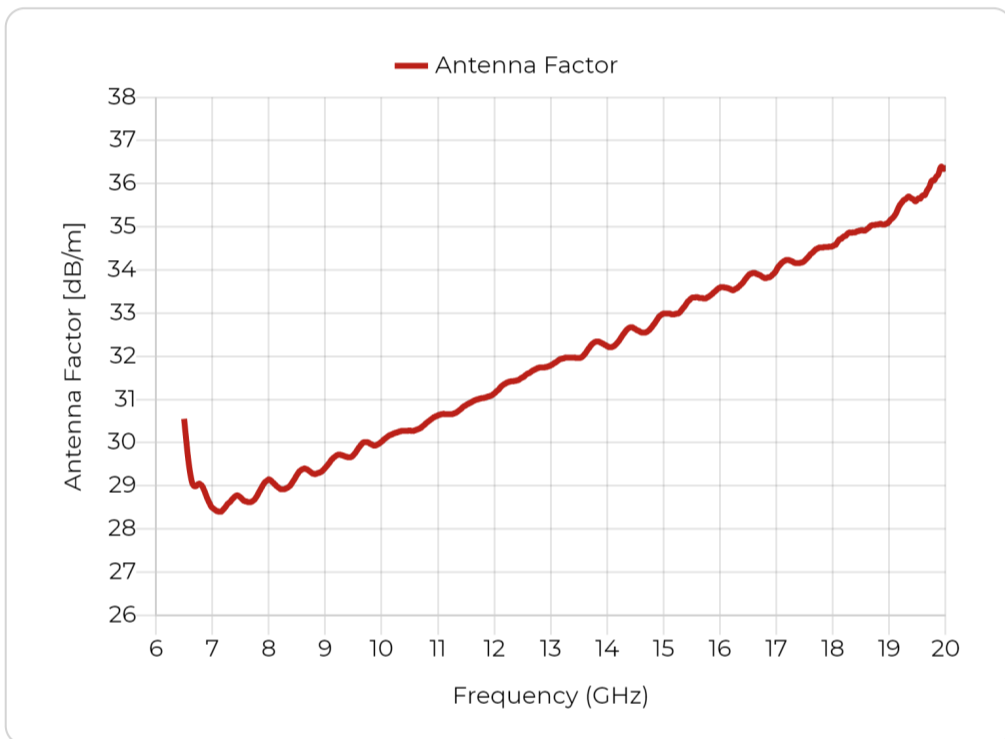
VSWR



Gain

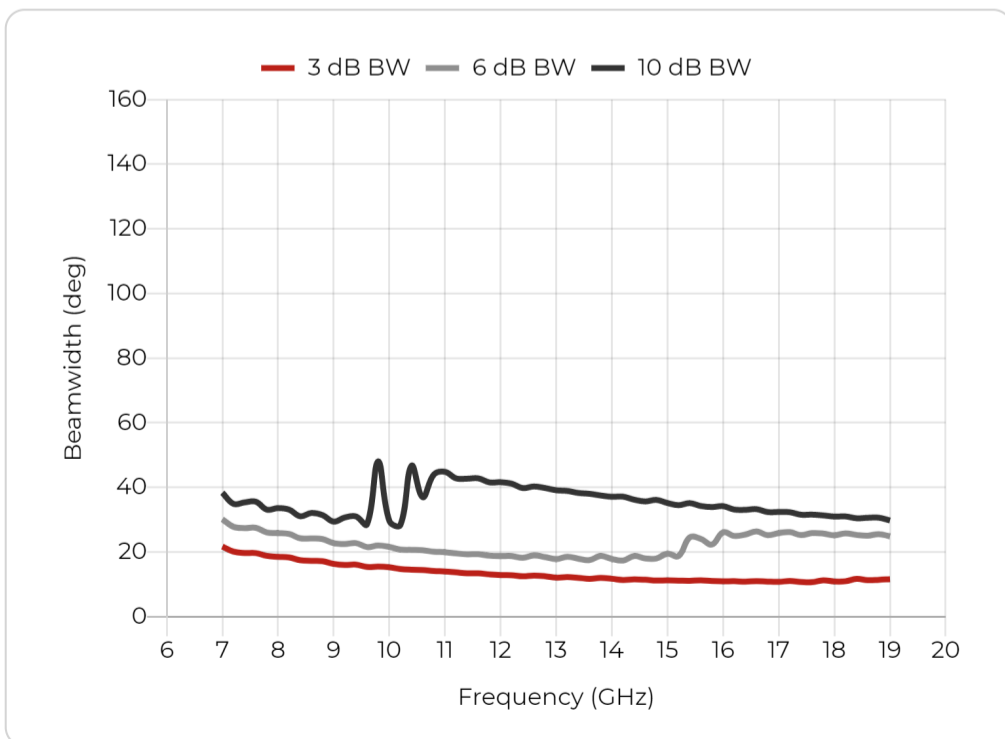


Antenna Factor

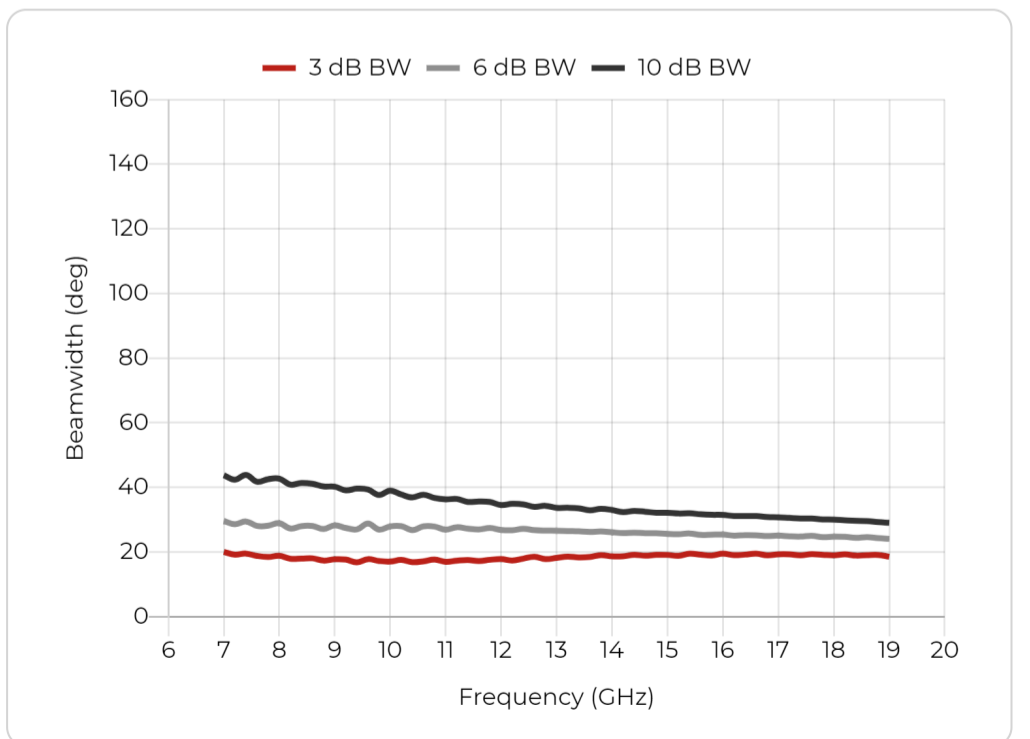


Beamwidth

Port A, E plane



Port A, H plane



Packaging and Accessories

What's in a box

- DRH818 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

Optional Accessories

- [ADRWC750 Waveguide to Coax Adapter](#)
- [PAS02 Antenna Stand](#)

Custom services

- Custom mounting solutions
- Custom calibration data

Manufacturer Information

About Datasheet

Product information available also online at
<https://www.rfspin.com/product/drh818/>

Data and specifications subject to change without notice.

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