

## Double Ridged Horn Antenna



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	<b>DRH818</b>
Product Category	<b>Double Ridged Horn Antenna</b>

#### ELECTRICAL SPECIFICATIONS

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

#### PHYSICAL SPECIFICATIONS

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

#### OPERATING CONDITIONS

Rated Temperature Range	<b>0°C – +50°C</b>
Storage Temperature Range	<b>-20°C – +70°C</b>

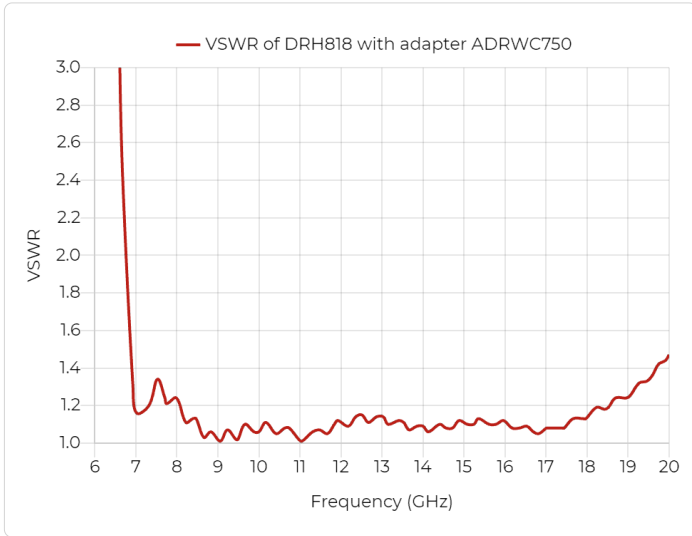
#### MOUNTING FLANGE

Mounting	<b>Universal antenna mount</b>
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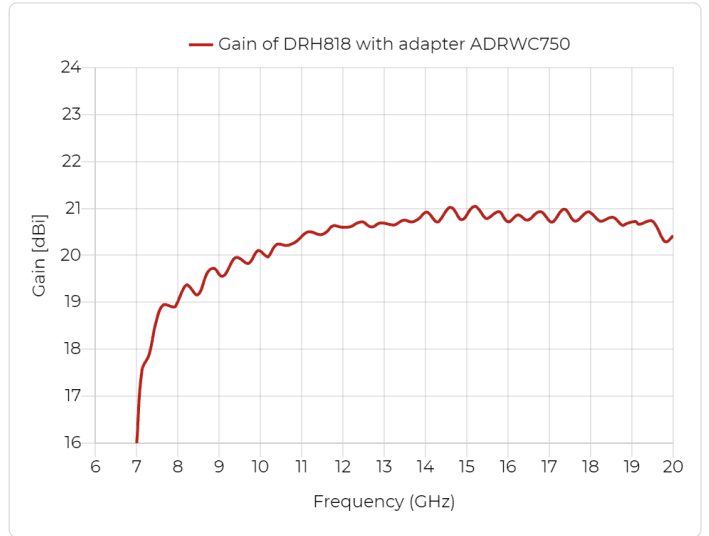
## Parameters and Performance

### Typical parameters

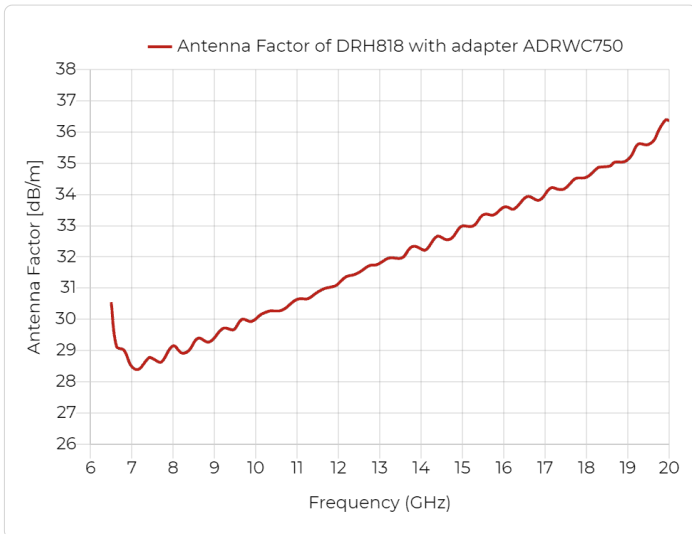
#### VSWR



#### Gain

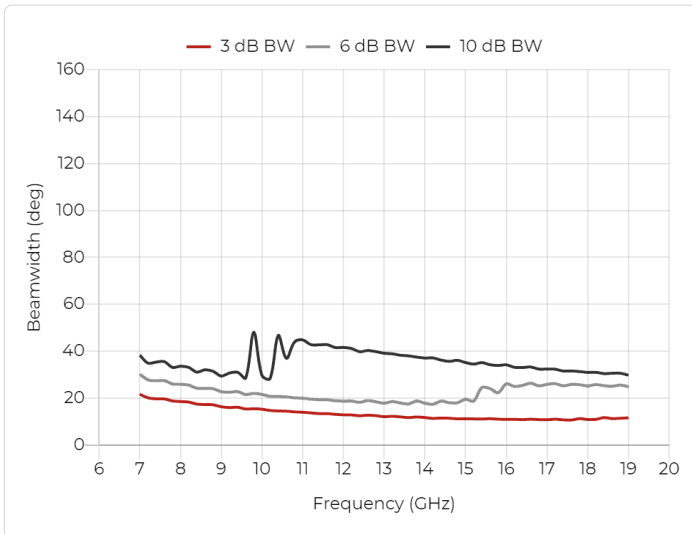


#### Antenna Factor

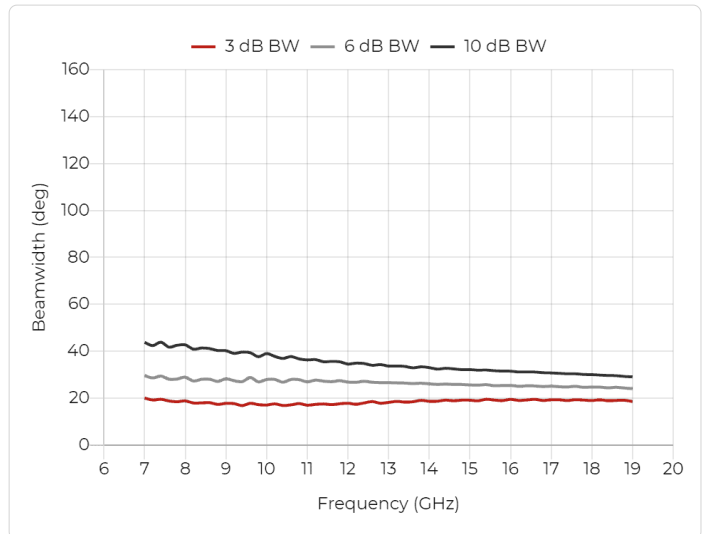


### Beamwidth

#### 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



Factory calibration report

### 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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