

# Leaders in Precision Measurement Antennas

Delivering advanced broadband solutions for the most demanding measurement challenges worldwide



END-TO-END  
PRODUCTION



OVER 20 YEARS  
ON THE MARKET

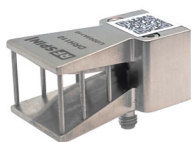


INNOVATIVE  
TECHNOLOGIES



CUSTOMIZED  
SOLUTIONS

# Single Polarized Antennas



## DRH110

14 GHz – 110 GHz

VSWR<sub>max</sub> < 2.1  
Gain 6.5 – 18.5 dBi  
Power (CW/Peak)  
4 W/8 W  
1.00 mm<sub>female</sub>



## DRH67

6 GHz – 67 GHz

VSWR<sub>max</sub> < 1.9  
Gain 7 – 21.5 dBi  
Power (CW/Peak)  
5 W/10 W  
1.85 mm<sub>female</sub>



## DRH50

4.5 GHz – 50 GHz

VSWR<sub>max</sub> < 1.55  
Gain 6 – 20.5 dBi  
Power (CW/Peak)  
10 W/20 W  
2.40 mm<sub>female</sub>



## DRH40

4 GHz – 40 GHz

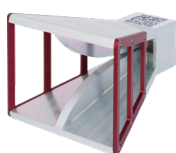
VSWR<sub>max</sub> < 1.6  
Gain 7 – 20 dBi  
Power (CW/Peak)  
15 W/30 W  
K<sub>female</sub>



## DRH0532

5 GHz – 32 GHz

VSWR<sub>max</sub> < 1.5  
Gain 7 – 21 dBi  
Power (CW/Peak)  
25 W/50 W  
K<sub>female</sub>



## DRH30

2.5 MHz – 30 GHz

VSWR<sub>max</sub> < 1.55  
Gain 6 – 20 dBi  
Power (CW/Peak)  
25 W/50 W  
K<sub>female</sub>



## DRH20E

1.6 MHz – 20 GHz

VSWR<sub>max</sub> < 1.5  
Gain 5 – 17 dBi  
Power (CW/Peak)  
50 W/100 W  
SMA<sub>female</sub>



## DRH18-E

1 GHz – 18 GHz

VSWR<sub>max</sub> < 2.2  
Gain 6 – 15 dBi  
Power (CW/Peak)  
100 W/170 W  
N or SMA<sub>female</sub>



## DRH18-EX

800 MHz – 18 GHz

VSWR<sub>max</sub> < 2.5  
Gain 2.5 – 15 dBi  
Power (CW/Peak)  
100 W/170 W  
N or SMA<sub>female</sub>



## DRH10

740 MHz – 10.5 GHz

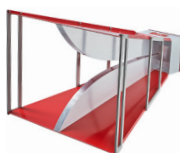
VSWR<sub>max</sub> < 1.8  
Gain 4 – 17 dBi  
Power (CW/Peak)  
150 W/250 W  
N<sub>female</sub>



## DRH370

370 MHz – 6 GHz

VSWR<sub>max</sub> < 1.6  
Gain 3.5 – 16 dBi  
Power (CW/Peak)  
350 W/500 W  
N<sub>female</sub>



## DRH300

300 MHz – 4.5 GHz

VSWR<sub>max</sub> < 1.6  
Gain 4 – 15 dBi  
Power (CW/Peak)  
800 W/1200 W  
N<sub>female</sub>



## DRH203

200 MHz – 3 GHz

VSWR<sub>max</sub> < 1.8  
Gain 3 – 16 dBi  
Power (CW/Peak)  
1000 W/1500 W  
N<sub>female</sub>



## DRH200

180 MHz – 2.2 GHz

VSWR<sub>max</sub> < 1.6  
Gain 6 – 14 dBi  
Power (CW/Peak)  
1500 W/1900 W  
N<sub>female</sub>



## TEMH20

1 GHz – 22 GHz

VSWR<sub>max</sub> < 2.6  
Gain 6 – 22 dBi  
Power (CW/Peak)  
25 W/50 W  
3.5 mm<sub>female</sub>

# Outdoor Antennas

These antennas are housed in custom-designed protective radomes that combine superior weather resistance with exceptional durability and guaranteed low electromagnetic interference in all operating conditions.

Within these radomes, the antennas deliver precise measurements and superior signal reception across a broad range of frequency applications. We can customize and tailor the radome to cover any of our antennas according to customer requirements.



## QRH18R

1 GHz – 18 GHz

VSWR<sub>max</sub> < 2.5  
Gain 3 – 17 dBi  
Power (CW/Peak)  
100 W/170 W  
2 × SMA<sub>female</sub>

## QRH11R

730 MHz – 11 GHz

VSWR<sub>max</sub> < 2.4  
Gain 3 – 15 dBi  
Power (CW/Peak)  
100 W/170 W  
2 × SMA<sub>female</sub>

## DRH18-ER

1 GHz – 18 GHz

VSWR<sub>max</sub> < 2.2  
Gain 6 – 15 dBi  
Power (CW/Peak)  
100 W/170 W  
SMA<sub>female</sub>

## DRH18-EXR

800 MHz – 18 GHz

VSWR<sub>max</sub> < 2.4  
Gain 2.5 – 15 dBi  
Power (CW/Peak)  
100 W/170 W  
SMA<sub>female</sub>

## DRH10R

740 MHz – 10.5 GHz

VSWR<sub>max</sub> < 2.4  
Gain 3 – 16 dBi  
Power (CW/Peak)  
150 W/250 W  
SMA<sub>female</sub>

## Dual Polarized Antennas



### QRH67E

6 GHz – 67 GHz

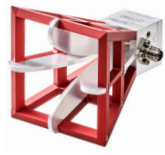
VSWR<sub>max</sub> < 2.4  
Gain 3 – 14 dBi  
Power (CW/Peak)  
5 W/10 W  
2 × 1.85 mm<sub>female</sub>



### QRH50E

5 GHz – 50 GHz

VSWR<sub>max</sub> < 2.5  
Gain 4 – 14 dBi  
Power (CW/Peak)  
5 W/10 W  
2 × 2.40 mm<sub>female</sub>



### QRH40

4 GHz – 40 GHz

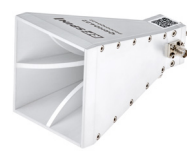
VSWR<sub>max</sub> < 2.4  
Gain 6 – 16 dBi  
Power (CW/Peak)  
10 W/20 W  
2 × K<sub>female</sub>



### QRH0140

1 GHz – 40 GHz

VSWR<sub>avg</sub> < 2.4  
Gain 5 – 15.5 dBi  
Power (CW/Peak)  
10 W/20 W  
2 × K<sub>female</sub>



### QRH0422

4 GHz – 22 GHz

VSWR<sub>max</sub> < 2.4  
Gain 8 – 16 dBi  
Power (CW/Peak)  
20 W/40 W  
2 × SMA<sub>female</sub>



### QRH20E

1.7 GHz – 20 GHz

VSWR<sub>max</sub> < 2.4  
Gain 5 – 15.5 dBi  
Power (CW/Peak)  
20 W/40 W  
2 × SMA<sub>female</sub>



### QRH18

1 GHz – 18 GHz

VSWR<sub>max</sub> < 2.5  
Gain 5 – 16 dBi  
Power (CW/Peak)  
100 W/170 W  
2 × SMA<sub>female</sub>



### QRH11

730 MHz – 11 GHz

VSWR<sub>max</sub> < 2.4  
Gain 3 – 15.5 dBi  
Power (CW/Peak)  
100 W/170 W  
2 × SMA<sub>female</sub>



### QRH400

400 MHz – 6 GHz

VSWR<sub>max</sub> < 2.3  
Gain 4 – 15 dBi  
Power (CW/Peak)  
500 W/1700 W  
2 × N<sub>female</sub>



### QRH300

300 MHz – 4.5 GHz

VSWR<sub>max</sub> < 2.2  
Gain 2 – 15 dBi  
Power (CW/Peak)  
700 W/1700 W  
2 × N<sub>female</sub>



### DLPP-6

500 MHz – 6 GHz

VSWR<sub>max</sub> < 2.5  
Gain 3 – 8 dBi  
Power (CW/Peak)  
10 W/20 W  
2 × SMA<sub>female</sub>



### OEQWG1831AA

17.8 GHz – 31 GHz

VSWR<sub>max</sub> < 1.5  
Gain 5.5 – 9.5 dBi  
Power (CW/Peak)  
25 W/50 W  
K<sub>female</sub>

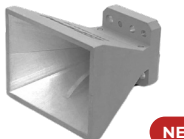
## Measurement Horn Antennas



### DRH818

7.5 GHz – 18 GHz

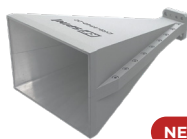
VSWR<sub>max</sub> < 1.18  
Gain 18 – 21 dBi  
Power (CW/Peak)  
1000 W/2500 W  
WRD750



### DRH1840-16

18 GHz – 40 GHz

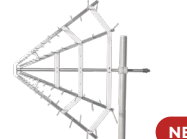
VSWR<sub>max</sub> < 1.18  
Gain 15 – 17 dBi  
Power (CW/Peak)  
500 W/1250 W  
WRD180



### DRH1840-22

18 GHz – 40 GHz

VSWR<sub>max</sub> < 1.18  
Gain 20 – 23 dBi  
Power (CW/Peak)  
500 W/1250 W  
WRD180



### SLPP0230

200 MHz – 3 GHz

VSWR<sub>max</sub> < 1.8  
Gain 8.5 – 11.5 dBi  
Power (CW/Peak)  
1000 W/2000 W  
7/16<sub>female</sub>



### DRH0806

800 MHz – 6 GHz

VSWR<sub>max</sub> < 1.8  
Gain 10 – 24 dBi  
Power (CW/Peak)  
1000 W/1300 W  
7/16<sub>female</sub>

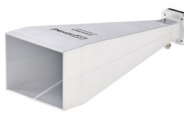
## High Gain Antennas



### DRH1067

10 GHz – 67 GHz

VSWR<sub>max</sub> < 1.8  
Gain 15 – 24 dBi  
Power (CW/Peak)  
5 W/10 W  
1.85 mm<sub>female</sub>



### DRH0953

9 GHz – 53 GHz

VSWR<sub>max</sub> < 2  
Gain 13 – 25 dBi  
Power (CW/Peak)  
10 W/20 W  
2.40 mm<sub>female</sub>

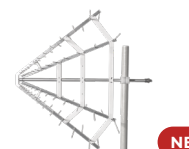


### DRH0844

8 GHz – 44 GHz

VSWR<sub>max</sub> < 2  
Gain 15 – 24 dBi  
Power (CW/Peak)  
15 W/30 W  
K<sub>female</sub>

## EMC Antennas



### SLPP0230

200 MHz – 3 GHz

VSWR<sub>max</sub> < 1.8  
Gain 8.5 – 11.5 dBi  
Power (CW/Peak)  
1000 W/2000 W  
7/16<sub>female</sub>



### DRH0806

800 MHz – 6 GHz

VSWR<sub>max</sub> < 1.8  
Gain 10 – 24 dBi  
Power (CW/Peak)  
1000 W/1300 W  
7/16<sub>female</sub>

Other suitable models for EMC include DRH18-E, DRH40 and more. For any challenging EMC setup, we can design and customize solutions according to specific needs.



Scan to explore our complete antenna portfolio and solutions.

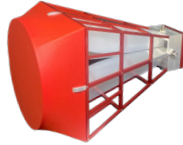
# Lens Antennas

NEW CATEGORY

Our lens antennas feature patented 3D printed technology. Introduced in 2024, this innovative solution delivers exceptional performance that surpasses traditional limitations.

Smart lens implementation significantly enhances antenna gain and performance while maintaining minimal weight and compact dimensions.

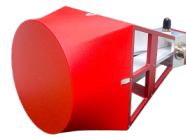
We can customize and add lens technology also to different antennas according to specific requirements.



## QRH11C

730 MHz – 11 GHz

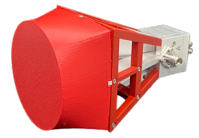
VSWR<sub>max</sub> < 2.8  
Gain 3 – 20 dBi  
Power (CW/Peak)  
100 W/170 W  
SMA<sub>female</sub>



## QRH20EC

1.7 GHz – 20 GHz

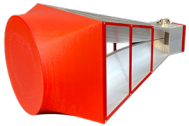
VSWR<sub>max</sub> < 2.4  
Gain 5 – 22 dBi  
Power (CW/Peak)  
100 W/40 W  
SMA<sub>female</sub>



## QRH40C

4 GHz – 40 GHz

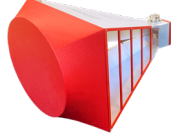
VSWR<sub>max</sub> < 2.4  
Gain 6 – 22 dBi  
Power (CW/Peak)  
10 W/20 W  
K<sub>female</sub>



## DRH10C

740 MHz – 10.5 GHz

VSWR<sub>max</sub> < 2.2  
Gain 4 – 22 dBi  
Power (CW/Peak)  
150 W/250 W  
N<sub>female</sub>



## DRH18-EC

1 GHz – 18 GHz

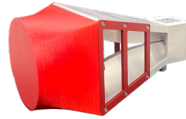
VSWR<sub>max</sub> < 2.5  
Gain 5 – 23 dBi  
Power (CW/Peak)  
100 W/170 W  
N or SMA<sub>female</sub>



## DRH20EC

1.6 GHz – 20 GHz

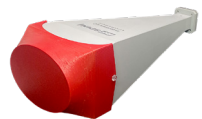
VSWR<sub>max</sub> < 2.2  
Gain 6 – 24 dBi  
Power (CW/Peak)  
50 W/100 W  
SMA<sub>female</sub>



## DRH30C

2.5 GHz – 30 GHz

VSWR<sub>max</sub> < 1.6  
Gain 5 – 22 dBi  
Power (CW/Peak)  
25 W/50 W  
K<sub>female</sub>



## DRH0844C

8 GHz – 44 GHz

VSWR<sub>max</sub> < 2.2  
Gain 16 – 29 dBi  
Power (CW/Peak)  
15 W/30 W  
K<sub>female</sub>

# Circular Polarized Antennas



## CDHC1015

10 GHz – 15 GHz

VSWR<sub>max</sub> < 1.6  
Gain 3 – 7 dBi  
Power (CW/Peak)  
5 W/10 W  
2 × SMA<sub>female</sub>



## SH38-07

37.5 GHz – 39 GHz

VSWR<sub>max</sub> < 1.8  
Gain 7 dBi  
Power (CW/Peak)  
15 W/30 W  
K<sub>female</sub>



## SH4652-07

46 GHz – 52 GHz

VSWR<sub>max</sub> < 1.6  
Gain 7 dBi  
Power (CW/Peak)  
15 W/30 W  
2 × 2.40 mm<sub>female</sub>

# Other Products

## Standard Gain Horn Antennas

High-performance measurement antennas operating with frequencies 8.2 GHz – 140 GHz, with optional surface finishes of gold plating or Bonderite 2040 coating.

## Waveguide Adapters

Professional-grade RF/microwave adapters designed for precise signal transmission, covering frequency bands from 3.95 GHz – 110 GHz, with versatile connection options.

# Components and Accessories

Our comprehensive range of accessories provides all essential components for your RF testing needs – from cables and stands to couplers and fixtures.



Stands



Cables

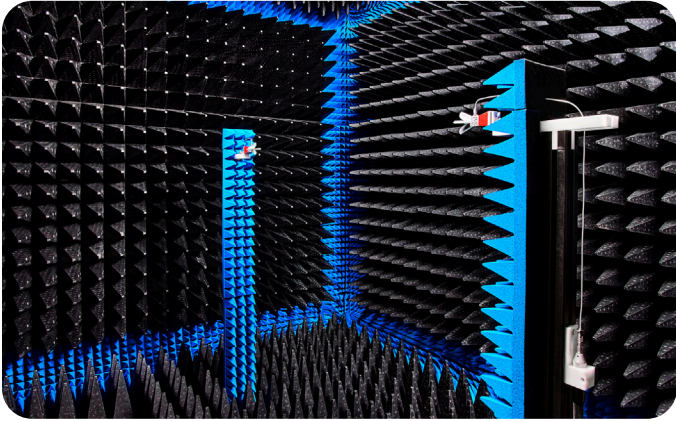


Couplers



Fixtures

# Advanced Antenna Measurement Chamber



Our cutting-edge antenna measurement facility features two modern anechoic chambers equipped with both far-field and near-field measurement capabilities. The system operates across an impressive frequency range of 0.7 GHz – 120 GHz (FF) and 2 GHz – 50 GHz (NF).

In the far-field configuration, we offer testing at 3m/1m distances for antenna gain, radiation patterns, and circular polarization measurements. Our near-field setup utilizes a sophisticated spherical scanning system for precise 3D radiation pattern characterization.

From mid-2025, this advanced testing facility is also available to external customers.

## Custom Solutions & Designs

Beyond standard. Beyond possible. We create exceptional RF solutions that others consider impossible. Our elite R&D team excels in groundbreaking designs for advanced research, aerospace, and specialized industrial applications - wherever conventional RF technology reaches its limits. Contact us at [special@rfspin.com](mailto:special@rfspin.com) to discuss your unique RF requirements.

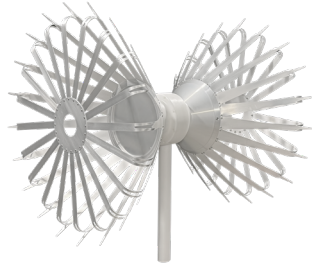
### CRA0507

Large-scale measuring choke ring antenna for Airbus Defence and Space



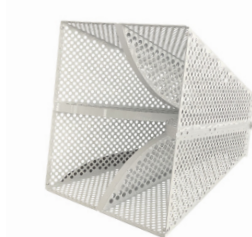
### MBA007100

Biconical antenna with integrated optical system for Mercedes-Benz



### NAH03012

Ultra-light antenna for energy observations by NASA



## About RF SPIN

With over 20 years of industry experience, RF SPIN is a global leader in RF and microwave components. We excel in designing and producing innovative, precision broadband antennas.

Our worldwide reputation for excellence is highlighted through the selection of our products by leading companies. Renowned for deep technical expertise, RF SPIN continues at the forefront of advancing RF technology, reinforcing our status as trusted industry experts.



### Preferred Partner for World-Class Clients



Mercedes-Benz



# End-to-End Excellence in Antenna Production

Our in-house production facility brings all antenna development under one roof, ensuring complete control of every process. Each step, from design concepts to precision manufacturing and rigorous testing, reflects our dedication to excellence.



## Advanced Innovation Hub

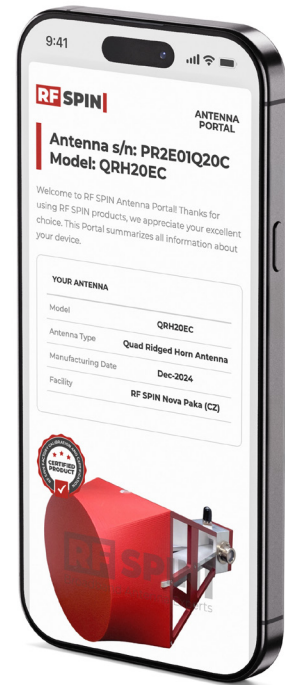
Each RF SPIN antenna begins its journey in our R&D team, where innovative ideas are transformed into cutting-edge designs. Backed by years of RF expertise and advanced industry insights, we optimize every design for superior performance and reliability.

## Smart Production Powerhouse

Our state-of-the-art manufacturing facility is equipped with high-precision CNC machines and advanced metalworking equipment. Combined with digitalized processes and meticulous quality control, we ensure exceptional accuracy at every production step.

## Precision Data Access

Our comprehensive measurement facilities enable detailed antenna characterization and performance validation. Each measured antenna features a unique QR code for easy access to our specialized Antenna Portal, where you'll find product specifications and technical documentation.



## RF SPIN Worldwide



## Contact

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www.rfspin.com

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in the Czech Republic