Single Polarized Broadband Antennas



Dual Polarized Broadband Antennas



Outdoor Antennas

QRH18R	QRH11R	DRH18-ER	DRH18-EXR	DRH10R	
1 GHz – 18 GHz	730 MHz – 11 GHz	1 GHz – 18 GHz	800 MHz – 18 GHz	740 MHz – 10.5 GHz	
VSWR < 2.5	VSWR < 2.4	VSWR < 2.2	VSWR < 2.4	VSWR < 2.4	
Gain 3 – 17 dBi	Gain 3 – 15 dBi	Gain 6 – 15 dBi	Gain 2.5 – 15 dBi	Gain 3 – 16 dBi	
Power (CW/Peak)	Power (CW/Peak)	Power (CW/Peak)	Power (CW/Peak)	Power (CW/Peak)	
100 W / 170 W	100 W / 170 W	100 W / 170 W	100 W / 170 W	150 W / 250 W	
$2 \times SMA_{female}$	2 × SMA _{female}	SMA _{female}	SMA _{female}	SMA _{female}	

These antenna models are installed directly into a custom designed low electromagnetic impact protective radome, which guarantees their permanent functionality in all weather conditions.

High Gain Antennas

Our high gain antennas are crafted for superior performance, offering high directivity and gain for advanced RF applications. These antennas are especially suited for long-range communications where precision and power are paramount.

Designed with advanced technology and highquality materials, they ensure dependable performance under tough conditions. Perfect for a range of commercial and research uses, these antennas demonstrate exceptional durability and consistent high performance.

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DRH1067	DRH0953	DRH0844
10 GHz – 67 GHz	9 GHz – 53 GHz	8 GHz – 44 GHz
VSWR < 1.8 Gain 15 – 24 dBi Power (CW/Peak)	VSWR < 2 Gain 13 – 25 dBi Power (CW/Peak)	VSWR < 2 Gain 15 – 24 dBi Power (CW/Peak)
5 W / 10 W 1.85 mm _{female}	10 W / 20 W 2.40 mm _{female}	I5 W / 30 W K _{female}

Circular Polarized Antennas

Antennas designed to excel in applications where orientation and alignment variability are a challenge. Offering both lefthand and right-hand polarization, they provide enhanced communication capabilities, making them ideal for dynamic environments like satellite and drone communications.

With their ability to minimize signal loss due to polarization mismatches, they ensure consistent and reliable performance. These antennas are a testament to our innovative approach, combining flexibility, efficiency, and reliability, catering to a wide array of advanced RF and microwave applications.

Components and Accessories

Our extensive selection of components ensures a complete solution for various application needs. It includes durable cables for minimal signal loss, robust stands for secure and flexible positioning, advanced 90-degree hybrid couplers, efficient power dividers, and antenna fixtures, as well as universal substrate box with pre-drilled holes for connectors.



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DRH18-EX	DRH10	DRH370	DRH300	DRH203	DRH200	DRH818	TEMH20
00 MHz – 18 GHz	740 MHz – 10.5 GHz	370 MHz – 6 GHz	300 MHz – 4.5 GHz	200 MHz – 3 GHz	180 MHz – 2.2 GHz	7.5 GHz – 18 GHz	1 GHz – 22 GHz
VSWR < 2.5 Gain 2.5 – 15 dBi Power (CW/Peak) 100 W / 170 W N or SMA _{female}	VSWR < 1.8 Gain 4 – 17 dBi Power (CW/Peak) 150 W / 250 W N _{female}	VSWR < 1.6 Gain 3.5 – 16 dBi Power (CW/Peak) 350 W / 500 W N _{female}	VSWR < 1.6 Gain 4 – 15 dBi Power (CW/Peak) 800 W / 1200 W N _{female}	VSWR < 1.8 Gain 3 – 16 dBi Power (CW/Peak) 1000 W / 1500 W N _{female}	VSWR < 1.6 Gain 6 – 14 dBi Power (CW/Peak) 1500 / 1900 W N _{female}	VSWR < 1.18 Gain 18 – 21 dBi Power (CW/Peak) 1000 W / 2500 W WRD750	VSWR < 2.6 Gain 6 – 22 dBi Power (CW/Peak) 25 W / 50 W 3.5 mm _{female}

ORH400 ORH300 DLPP-6 400 MHz – 6 GHz 300 MHz – 4.5 GHz 500 MHz – 6 GHz VSWR < 2.3 VSWR < 2.2 VSWR < 2.5 Gain 4 – 15 dBi Gain 2 – 15 dBi Gain 3 – 8 dBi Power (CW/Peak) Power (CW/Peak) Power (CW/Peak) 500 W / 700 W 700 W / 1100 W 10 W / 20 W 2 × SMA _{female} 2 × N _{female} 2 × N _{female}

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CDHC1015	SH38-07	SH4652-07
10 GHz – 15 GHz	37.5 GHz – 39 GHz	46 GHz – 52 GHz
VSWR < 1.6 Gain 3 – 7 dBi Power (CW/Peak) 5 W / 10 W 2 × SMA	VSWR < 1.8 Gain 7 dBi Power (CW/Peak) 15 W / 30 W K _{female}	VSWR < 1.6 Gain 7 dBi Power (CW/Peak) 15 W / 30 W 2 × 2.40 mm _{female}

Standard Gain Horn Antennas

Expertly engineered for unmatched precision and reliability, these antennas cover frequencies up to 140 GHz. With options for gold plated or BONDERITE 2040 finishes, they are designed to meet rigorous RoHS, REACH, and NRL-4433 standards. They are ideal for reference gain and Near-Field test range applications, providing consistent, high-quality performance in a variety of RF applications.

		Nominal Gain					
	waveguide Type	10 dBi	15 dBi	20 dBi	25 dBi		
8.2 GHz – 12.4 GHz	WR90	H-A12-W10	H-A12-W15				
10 GHz – 15 GHz	WR75	H-A15-W10	H-A15-W15				
12.4 GHz – 18 GHz	WR62	H-A18-W10	H-A18-W15				
15 GHz – 22 GHz	WR51	H-A22-W10	H-A22-W15	H-A22-W20			
18 GHz – 26.5 GHz	WR42	H-A26-W10	H-A26-W15	H-A26-W20			
22 GHz – 33 GHz	WR34	H-A33-W10	H-A33-W15	H-A33-W20			
26.5 GHz – 40 GHz	WR28	H-A40-W10	H-A40-W15	H-A40-W20			
33 GHz – 50 GHz	WR22		H-A50-W15	H-A50-W20			
40 GHz – 60 GHz	WR19		H-A60-W15	H-A60-W20	H-A60-W25		
50 GHz – 75 GHz	WR15		H-A75-W15	H-A75-W20	H-A75-W25		
60 GHz – 90 GHz	WR12			H-A90-W20	H-A90-W25		
75 GHz – 110 GHz	WR10			H-A110-W20	H-A110-W25		
90 GHz – 140 GHz	WR8			H-A140-W20	H-A140-W25		

Waveguide Adapters

Enhancing our RF offerings, we provide a versatile range of waveguide adapters, covering frequencies from 3.95 to 110 GHz and ideal for a variety of applications. The adapters are designed for seamless integration, ensuring optimal performance across diverse settings.

Frequency Range	Waveguide Type	Part. No	VSWR	Flange	Connector
3.95 GHz – 5.85 GHz	WR187	AWC187EFS	< 1.3	UG-383	SMA N
12.4 GHz – 18 GHz	WR62	AWC62EFS AWC62EFN	< 1.25	UG-1665/U	SMA N
50 GHz – 67 GHz	WR15	AWC15EFW AWC15F	< 1.35	UG-385/U	1.85 1.85 (90° angle)
75 GHz – 110 GHz	WR10	AWC10EFW	< 1.35	UG-387/U	1.0 mm _{female}

Selected Display from Our Waveguard Adapters Range

Custom Solutions & Designs

Challenged with a unique RF project? Our highly experienced R&D department has a dedicated proven track record of successfully delivering complex assignments.



Active antenna with extremely low

noise and easy gain adjustment

SHARKIE

solutions, we have the expertise and cutting-edge technology in-house to meet your needs.

Whether it's fine-tuning our existing

products or designing entirely new RF



discuss your ideas.

CHOKE RING ANTENNA Large-scale lightweight antenna for Airbus Defence and Space

PARABOLIC REFLECTOR High-directive antenna with radome cover for outdoor use

We're always eager and ready to

contribute to the success of your

project. Don't hesitate to reach out to

us at special@rfspin.com to share and

Precise Measurements in Anechoic Chamber

At RF SPIN, each antenna is subjected to a thorough calibration process in our advanced 1-meter anechoic chamber, capable of handling up to 125 GHz. We meticulously calibrate each unit according to its specific frequency range, ensuring unparalleled accuracy and reliability.

Moreover, in our ongoing commitment to providing superior service, we offer comprehensive measurement services for antennas supplied by our customers. This underscores our adaptability and unwavering dedication to fulfilling their distinctive requirements.



End-to-End Excellence in Antenna Production

At RF SPIN, our commitment to excellence is evident throughout every stage of our antenna manufacturing process. From the initial spark of an innovative design to the final touches in production, we ensure top-notch quality and performance.

PIONEERING IDEAS BY IN-HOUSE R&D

Each RF SPIN antenna begins its journey in the minds of our R&D team. Here, innovative ideas are nurtured, leveraging advanced technology and deep industry insights. Our design process is efficient and focused, transforming creative concepts into functional prototypes. This crucial stage involves simulations and testing, ensuring that every design aspect is optimized for peak performance.

STATE-OF-THE-ART MANUFACTURING

In our manufacturing facility, we bring our designs to life. Our factory is a hub of top-tier machinery and specialized equipment, all geared towards producing antennas of exceptional quality. The process includes meticulous steps for high-quality surface treatment, precision assembly, and careful integration of components, ensuring that each of our antennas is built to last and perform flawlessly.



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





SPACEX



RF SPIN Worldwide



Continuing our quality commitment, every antenna is connected to our Antenna Portal via a unique QR code. This portal offers immediate access to precise calibration details and extensive antenna specifications, ensuring our clients are fully informed and confident

Contact

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High-quality antennas manufactured in the Czech Republic



Before leaving our factory, each antenna is rigorously tested and calibrated, confirming compliance with our strict performance standards. This ensures reliability and superior field operation.



in their antenna's capabilities.



Choose Excellence with Premier Broadband Antennas

Explore RF SPIN's range of advanced broadband antennas, renowned for unmatched precision and globally trusted for superior performance.



End-to-End Production



Innovative

Technologies



Worldwide Distribution OTHYO

Customized Solutions