

Double-ridged Horn Antenna

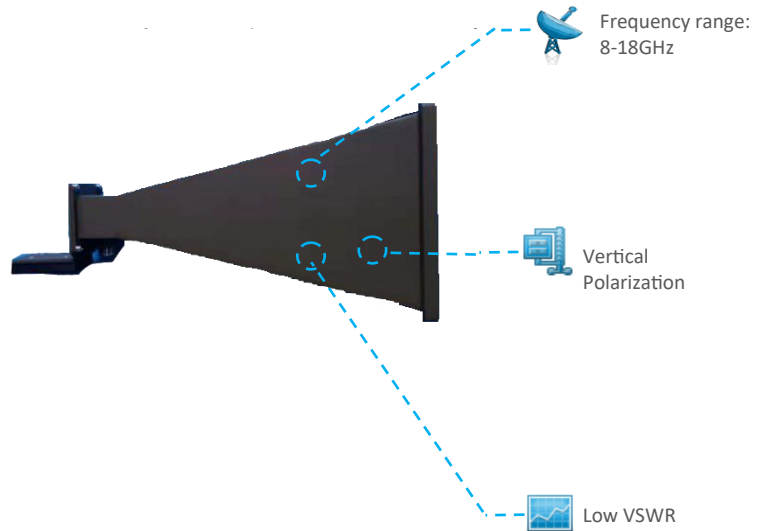
8-18GHz

The Atlantic Microwave Antenna shows uniform gain through its frequency span, resulting in excellent performing characteristics and directionality.

Its convenient shape reduces the antenna volume and weight making it specially suitable for mobility requirements during operation.

Made of lightweight corrosion-resistant aluminium, has been designed to provide years of trouble-free indoor and outdoor operational capabilities, in a fixed location, ideally suited for EMI testing, system integration, CATR, direction finding, surveillance and antenna gain and pattern measurements.

- Low VSWR
- Vertical Polarization
- Excellent impedance match and radiation pattern control
- SMA Female Connector

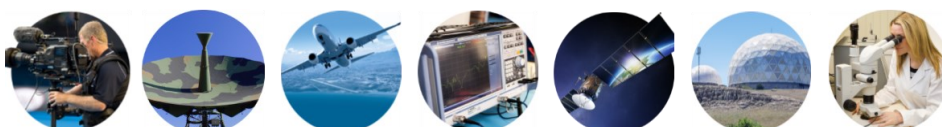


RF Parameters			
Frequency Range			8-18GHz
Gain			11-20 dB
Polarization			Vertical
Power Handling			100W max.
3dB Beamwidth	Azimuth Plane: Pitching:		10°-40° 6°-45°
VSWR	Typ.		≤2.5
Input Type	Coaxial	Impedance (Ω)	50
Operation Temperature	-55°C~+75°C	Size	≤105mm×145mm×248mm (excluded mounting plate)
Storage Temperature	-65°C~+85°C	Material	Aluminium
Input Connector	SMA Female	Location	Indoor and Outdoor
Sidelobe Level	Azimuth Plane ≤-11 dB		

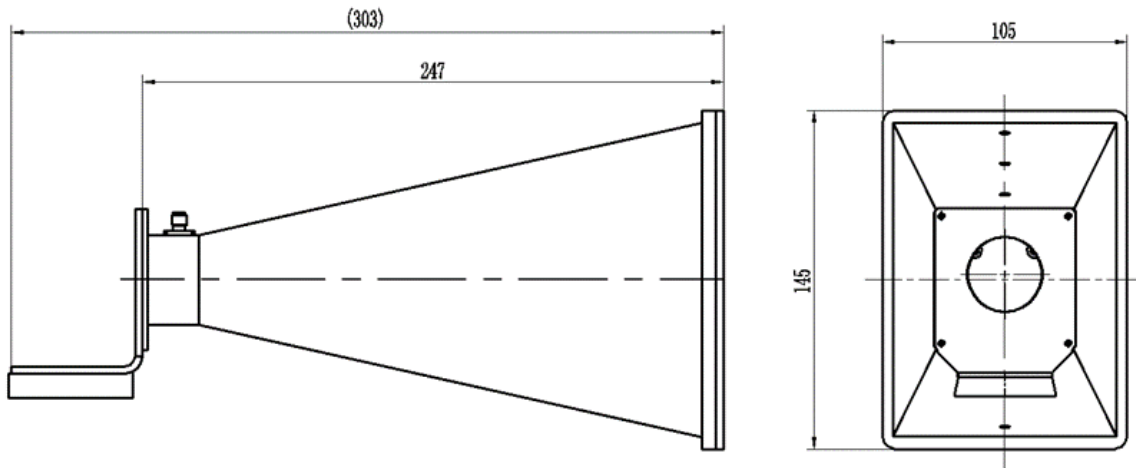
Note 1: The specification provided is at nominal bias voltage and at 25°C unless otherwise specified.

Note 2: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 3: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.



Outline Drawing:
All dimensions are in mm



Typical RF Performance

Gain

Frequency (GHz)	Max Gain (dB)
8	12.7
9	13.3
10	13.5
11	14.0
12	14.2
13	12.6
14	15.2
15	14.8
16	17.1
17	19.3
18	20.4

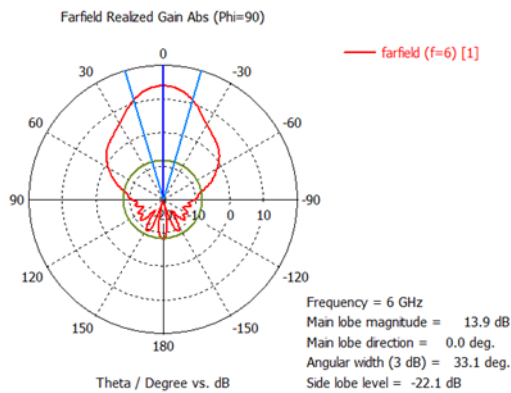
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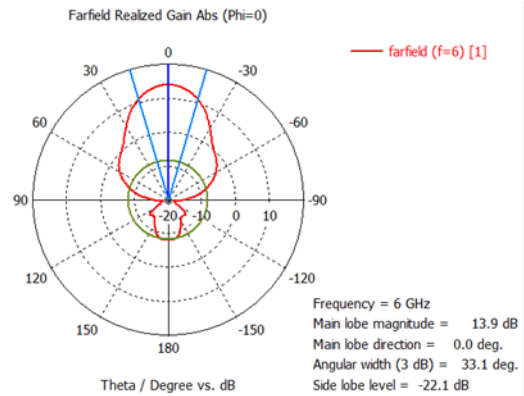
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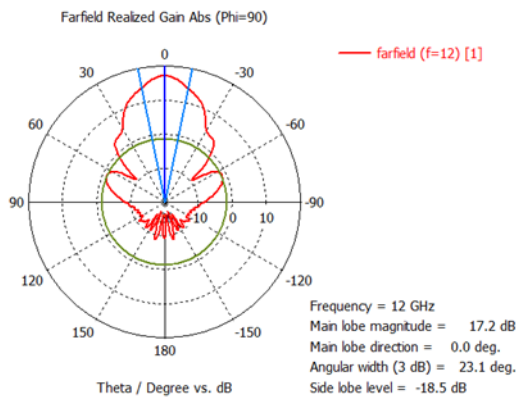
Pattern



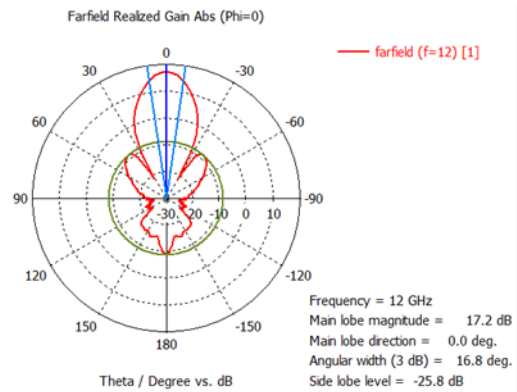
P1@6GHz



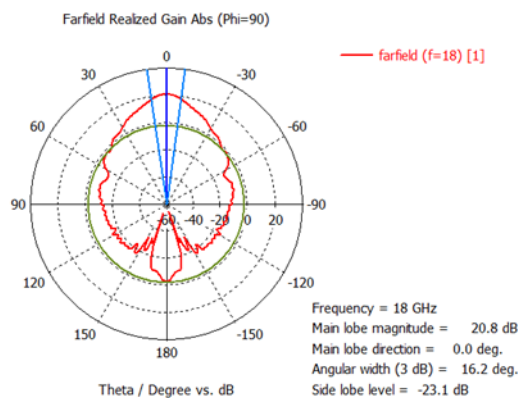
P2@6GHz



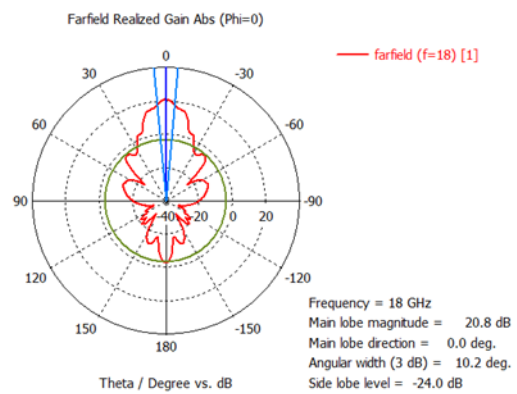
P3@12GHz



P4@12GHz



P5@18GHz



P6@18GHz

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