

Double-ridged Horn Antenna

18-40GHz

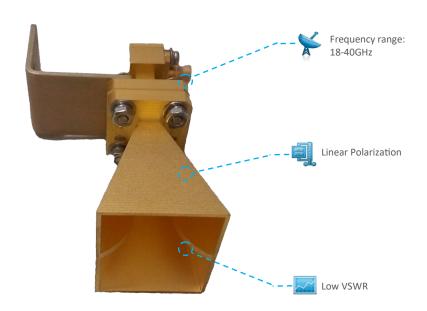
Low VSWR

- Linear Polarization
- Excellent impedance match and radiation pattern control
- SMA Female Connector

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



RF Parameters						
Frequency Range			18-40GHz			
Gain			>12 dB			
Polarization			Linear			
Power Handling		20W max.				
3dB Beamwidth	Min Max	15° 45°				
VSWR	Тур.		≤2.0			
Input Type		Coaxial	Impedance (Ω)	50		
Operation Temperature Storage Temperature		-55°C [~] +75°C -65°C [~] +85°C	Size	32mm×27mmx71mm (excluded mounting plate)		
Input Connector		2.92mm Female	Material	Copper		
Isolation on Port		>20 dB	Location	Indoor		

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.









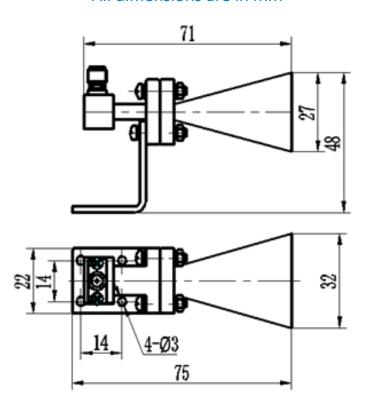








Outline Drawing: All dimensions are in mm



Typical RF Performance

Gain

Frequency (GHz)	Max Gain(dB)
18	12.4
20	13.1
22	12.7
24	14.6
26	14.5
28	15.3
30	15.9
32	16.2
34	16.8
36	17.1
38	17.2
40	17.4

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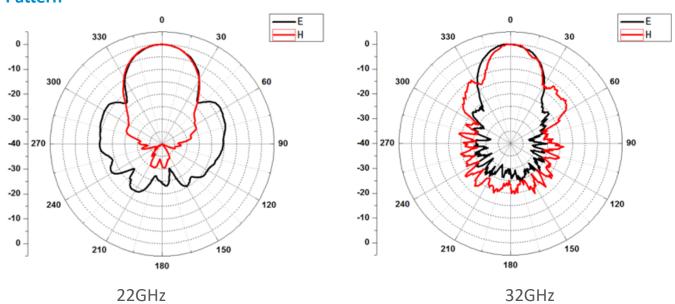




Beamwidth

Frequency (GHz)	E-Plane 3dB Beamwidth	H-Plane 3dB Beamwidth
18	43°	45°
20	41°	38°
22	36°	33°
24	31°	31°
26	28°	25°
28	28°	26°
30	27°	23°
32	27°	22°
34	26°	21°
36	26°	20°
38	23°	19°
40	23°	19°

Pattern



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