



Radiometer Horn (RHA-WR42)



- **Very low, flat Return Loss**
- **High Gain 30 dB**
- **Ultra-low Crosspolarization**
- **Ultra-low side-lobe levels**

Description

This corrugated horn antenna produces a very pure gaussian beam pattern. It combines both radial and axial corrugations to improve the Crosspolar and Return Loss performances while maintaining a shorter length than "classic" corrugated horns. This antenna is specially designed for scientific applications like radiometers, giving an enhanced performance compared with state of the art radiometer antennas.

Applications

- Specially designed for water vapor, dry air and other atmospheric gases measurement.
- Other uses such as telemetry and radar are also possible.

Electrical Specifications

Parameter	Value
Frequency Band	21.985 – 22.485 GHz
Bandwidth	500 MHz
Polarization	Single Linear
Return Loss	< -30 dB (± 1.5 dB flatness)
Crosspolar Level	< -40 dB
Side-lobe Level	< -40 dB

Mechanical Specifications

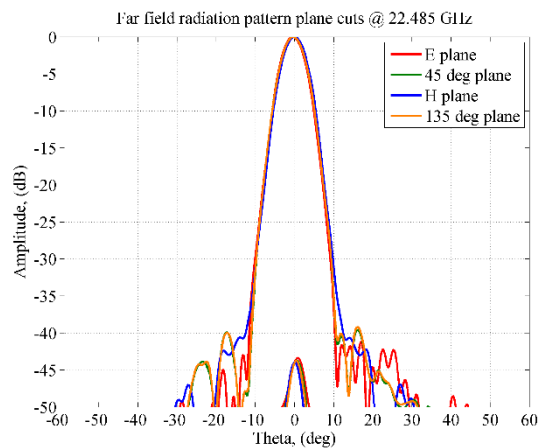
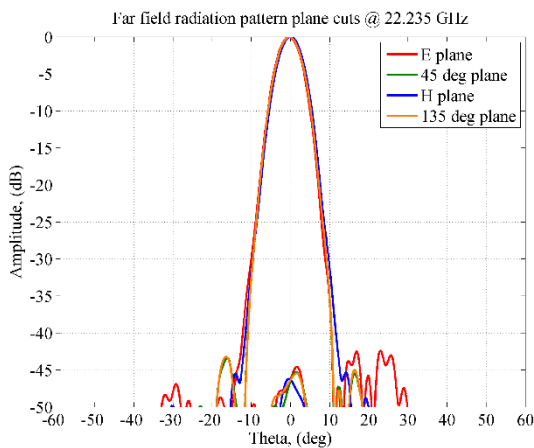
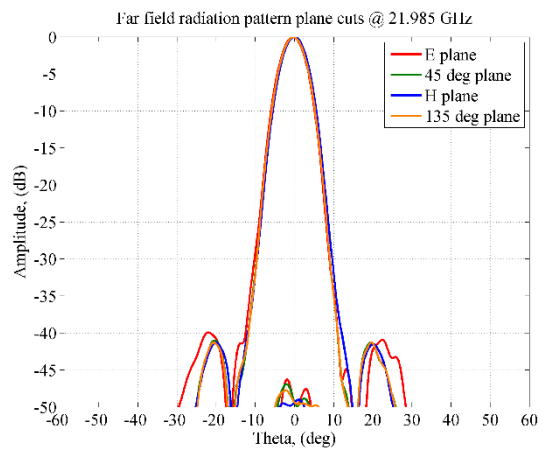
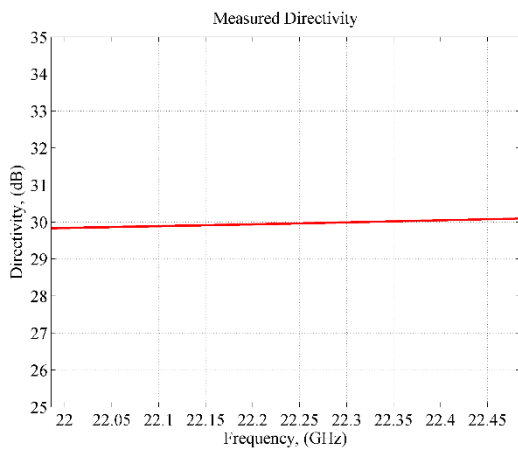
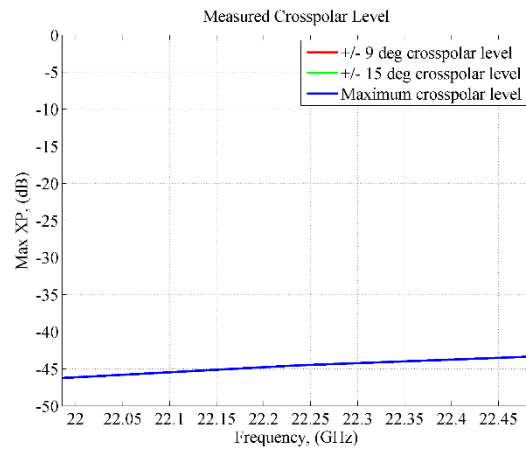
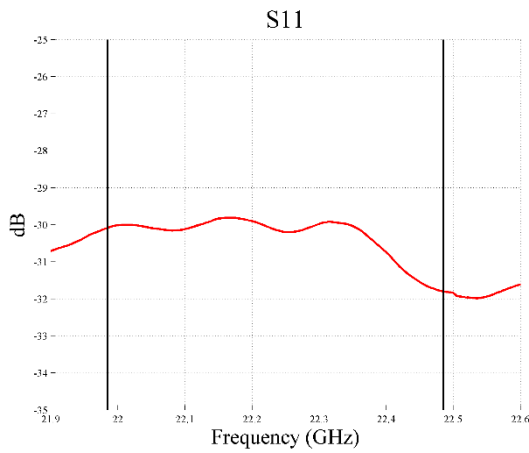
Parameter	Value
Length	380 mm
Inner Aperture Radius	185 mm
Input Waveguide	WR-42
Weight	3 Kg
Wind Resistance	200 kmh / 125mph*

**depending on clamping structure*

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Horn Performance



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ANTERAL

Radiometer Horn

The antenna comes into a ruggedized case box to avoid any damage during transportation.

Customization

We can customize the product as you want:

- Paint options under request
- Radome for hard environments
- Special clamping structures
- ...

Do not hesitate to contact us and request us for more information and prices. We will be happy to give you a great support: contact@anteral.com

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