

Standard Gain Horn

8.2 to 12.4 GHz, WR90, 20 dBi Gain

DESCRIPTION

Anteral's Standard Gain Horns are high performance antennas designed to exhibit smooth gain response in the whole band and very low VSWR. The antenna exterior appearances are designed to minimize weight, improve robustness and offer a sharp aperture. No soldering for flanges and no screws for attaching parts are included.

The SGH-20-WR90 model operates between 8.2 and 12.5 GHz with 20 dBi nominal mid-band gain and a typical VSWR of 1.12.

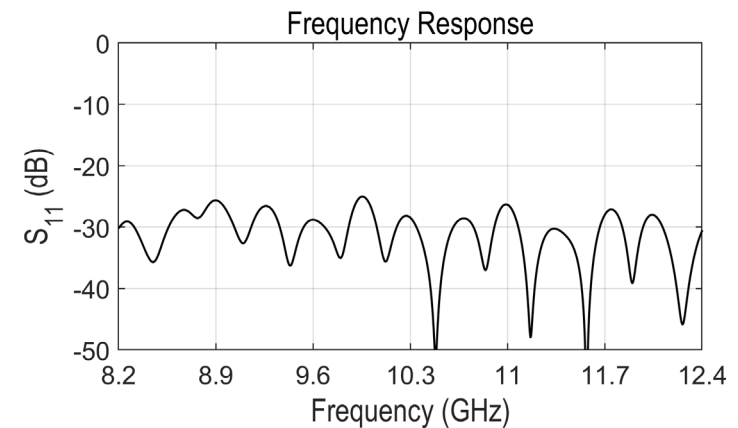
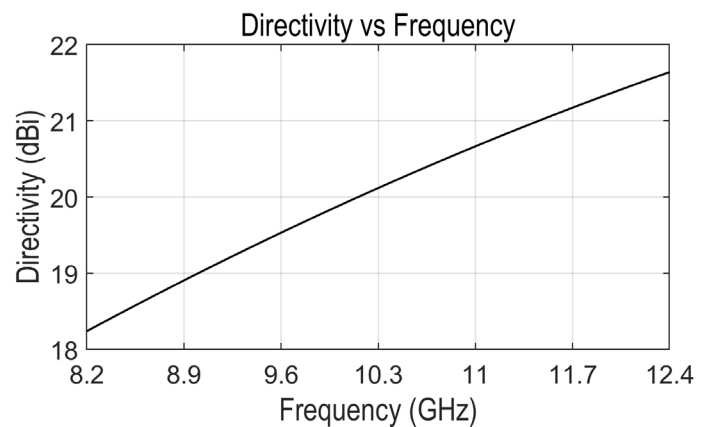
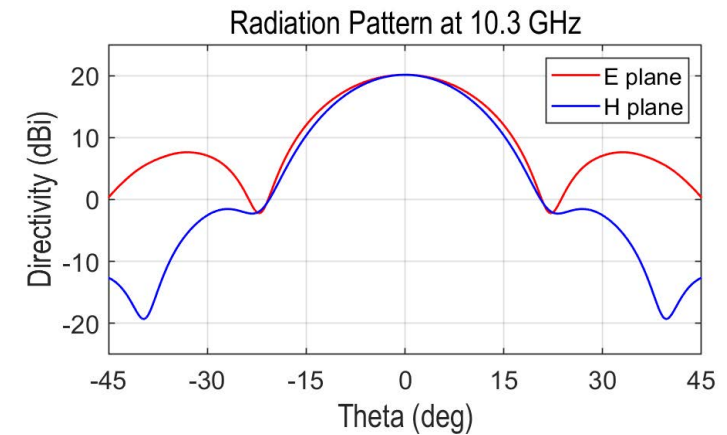
APPLICATIONS

This type of horns is especially suitable for laboratory test measurements, electromagnetic measurements and gain calibration. Moreover, custom bands and gain values can be requested.

Anteral also offers their **Lens Horn Antennas** with plano-convex Teflon (PTFE) lenses to exhibit high gain (>30 dBi) with minimum size.

ELECTRICAL SPECIFICATIONS

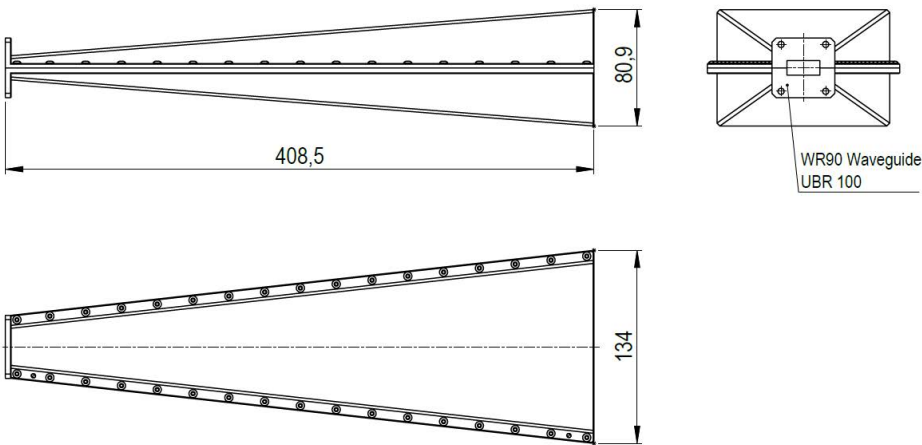
Parameter	Typical value
Frequency	8.2 - 12.4 GHz
Directivity	20 dBi
3 dB Beamwidth, E-plane	19.3 deg
3 dB Beamwidth, H-plane	17.3 deg
Sidelobe, E-plane	-12.5 dB
Sidelobe, H-plane	-21.6 dB
S11	-25 dB



MECHANICAL SPECIFICATIONS

Parameter	Description
Antenna Port	WR-90 (22.86 mm x 10.16 mm)
Length	408.5 mm
Total weight	876 g
Material	Aluminum
External Color	Ruby Red

MECHANICAL OUTLINE



Additional notes

Directivity and radiation pattern data are simulated. Actual values could vary slightly.
The return loss performance of all items is checked before delivery.

