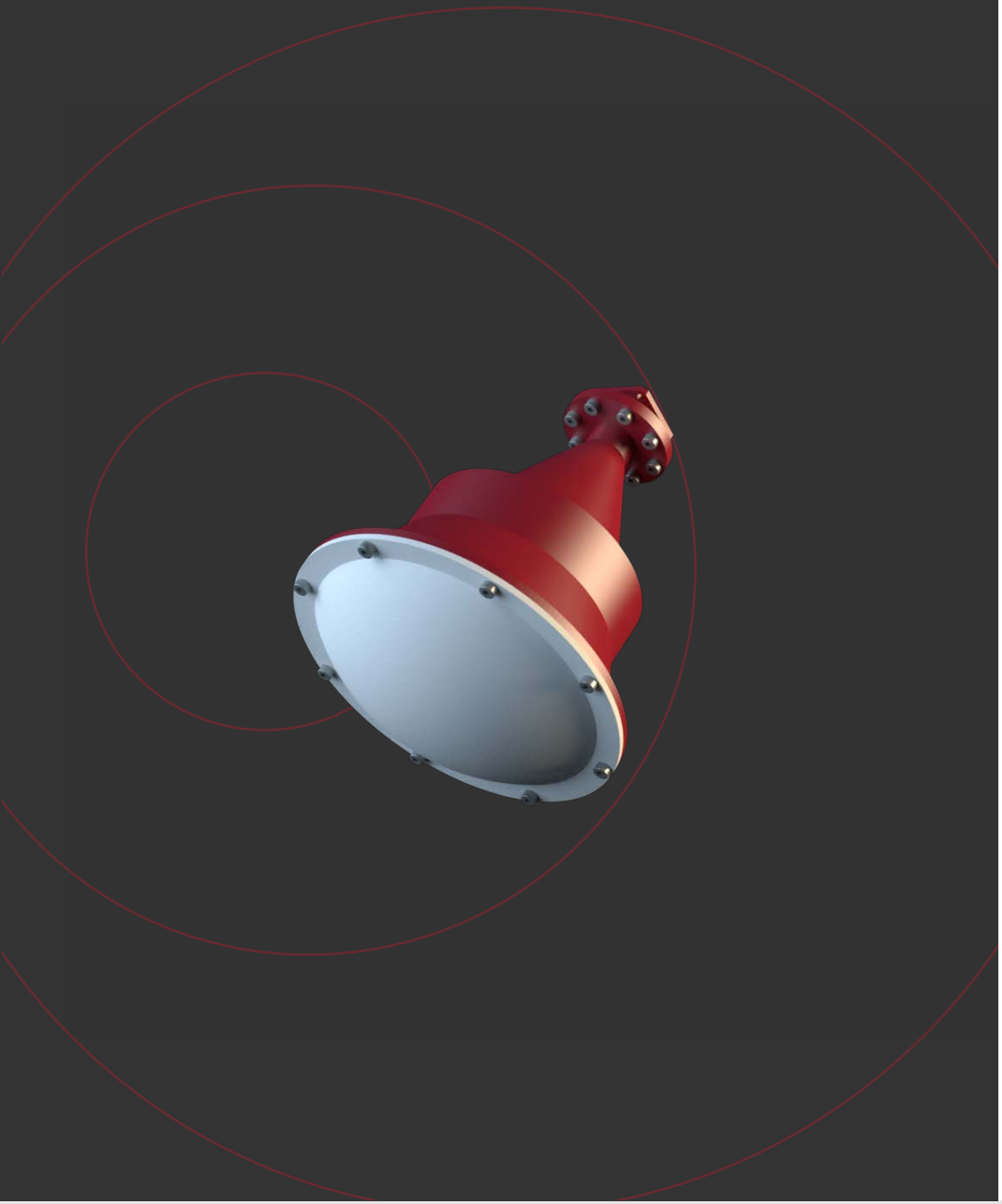
Anteral

LHA-F-WR05

www.anteral.com

contact@anteral.com
+34 948 488458



G-Band Focusing Lens Horn Antenna

140 to 220 GHz, WR05

DESCRIPTION

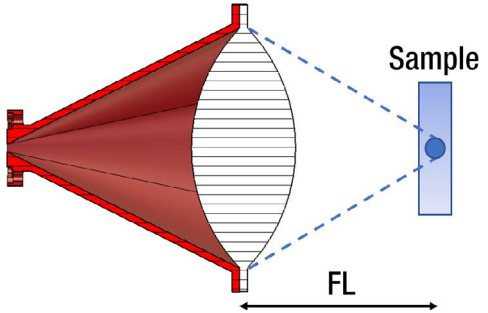
Anteral's Focusing Lens Horn Antennas are conical horn antennas with a **double-convex** Teflon (PTFE) lens added in the aperture, in order to apply phase correction and achieve superior focusing performance with minimum size.

The LHA-F-WR05 model operates at the G-band between 140 and 220 GHz with a focal length of 73.1 mm and a diameter beam focus of 4 mm.

APPLICATIONS

Focusing Lens Horn Antennas are especially useful when focusing beam is required with short focal distances. Therefore, these antennas are widely used in testing and material characterization.

Anteral also offers their Lens Horn Antennas with plano-convex lenses to exhibit high gain (>30 dB) in a very compact size which makes them optimal for radar applications, communication links or meteorological systems among others.

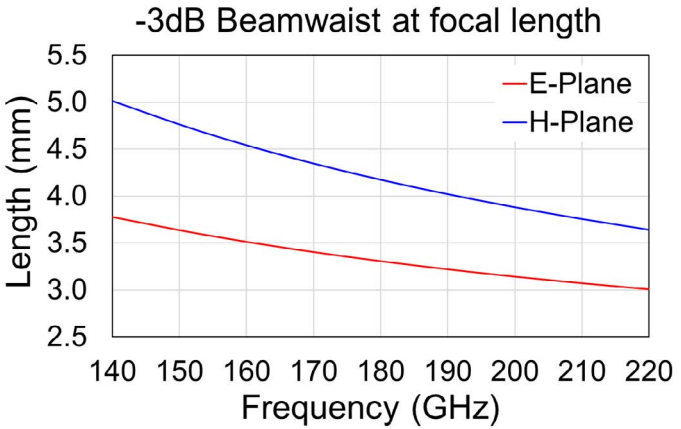


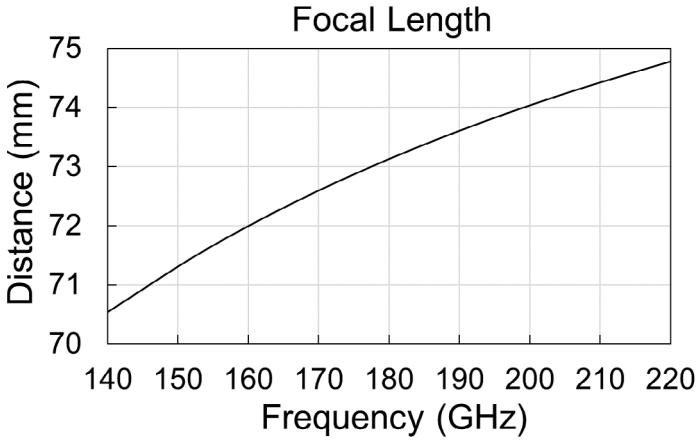
Edificio I+D "Jerónimo de Ayanz", Calle Tajonar 22,
31006 Pamplona (Navarra), SPAIN

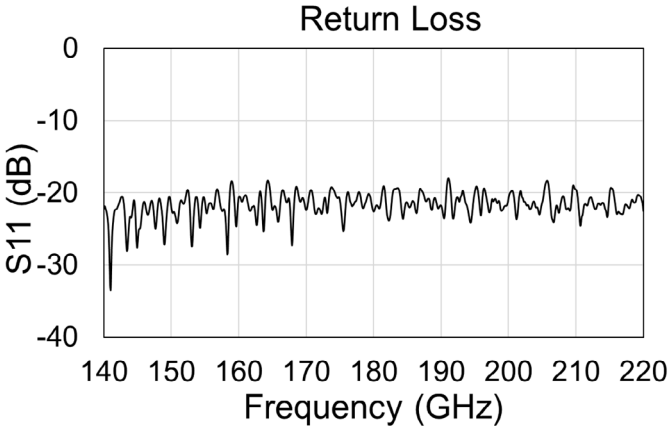
contact@anteral.com
+34 948 488458

ELECTRICAL SPECIFICATIONS

Parameter	Typical value
Frequency	180 GHz
Focal Length	73.1 mm
3 dB Beamwaist, E-plane	3.3 mm
3 dB Beamwaist, H-plane	4.2 mm
S11	-18 dB







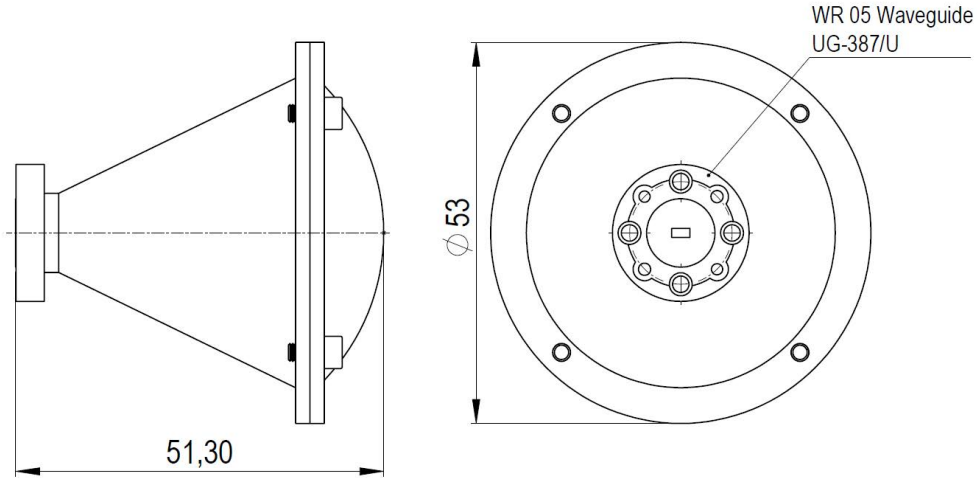
Edificio I+D “Jerónimo de Ayanz”, Calle Tajonar 22,
31006 Pamplona (Navarra), SPAIN

contact@anteral.com
+34 948 488458

MECHANICAL SPECIFICATIONS

Parameter	Description
Antenna Port	WR-5.1 (1.295 mm x 0.6475 mm)
Flange	UG-387/U
Total length	51.3 mm
Total diameter	53 mm
Total weight	70 g
Horn Material	Aluminum
Lens Material	PTFE
External Color	Ruby Red

MECHANICAL OUTLINE



Additional notes

Focal length and beamwaist data are simulated. Return loss data is measured from a sample. Actual values could vary slightly.
The return loss performance of all items is checked before delivery.

Edificio I+D “Jerónimo de Ayanz”, Calle Tajonar 22,
31006 Pamplona (Navarra), SPAIN