

Conical Antenna

OCN-08-23

Model OCN-08-23 is an F-band conical horn antenna with a WR-08 rectangular waveguide interface that operates from 100 to 112 GHz.

The antenna offers 23 dBi nominal gain and a typical half power beamwidth of 11 degrees on the E-plane and 13 degrees on the H-plane.

The horn also offers typical side lobes of 20 dB on the E-plane and 28 dB on the H-plane.

The conical horn can support linear polarization.

The RF connector of this antenna is a WR-08 waveguide with UG-387/U-M flange.



Features

Circular Waveguide Interface

Precisely Machined and Gold Plated

High Return Loss

Linear Polarization

Applications

Antenna Ranges

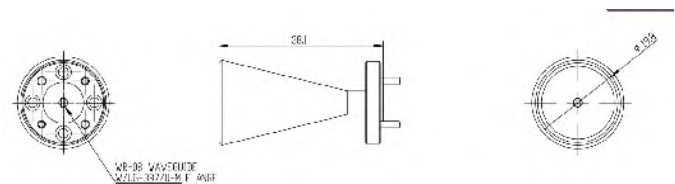
Feed Horns

System Setups

Electrical Specifications

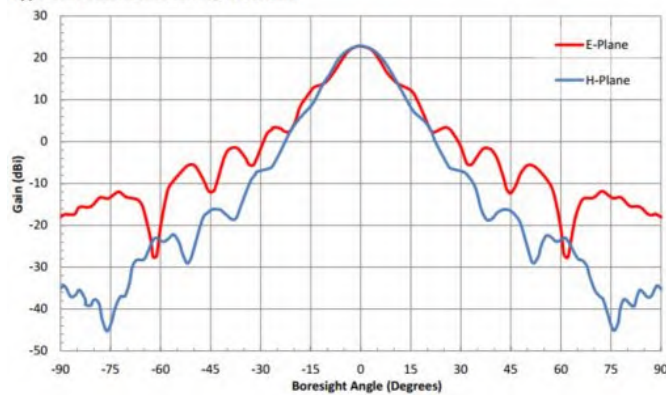
Frequency*	100GHz — 112GHz
Gain	23dB
3 dB Beamwidth, E-plane	11°
3 dB Beamwidth, H-plane	13°
Side Lobes, E-plane	20dB
Side Lobes, H-plane	28dB
Return Loss	23dB
Specification Temperature	+25°C
Operating Temperature	-40°C — +85°C

Product Dimensions



Test

Typical Antenna Pattern @ 106 GHz



Typical Gain vs. Frequency

