

# Conical Antenna

## OCN-082-23

Model OCN-082-23 is an F-band conical horn antenna 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 and circular polarization.

The input of this antenna is a 0.082" diameter circular waveguide with UG-387/U-M flange.



### Features

Circular Waveguide Interface  
Precisely Machined and Gold Plated  
High Return Loss  
Linear and Circular Polarization

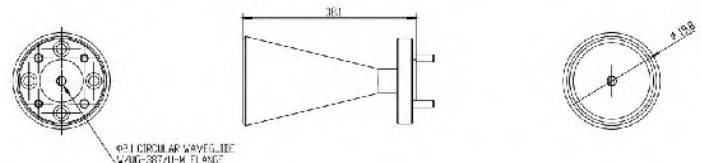
### Applications

Antenna Ranges  
Feed Horns  
System Setups

### Electrical Specifications

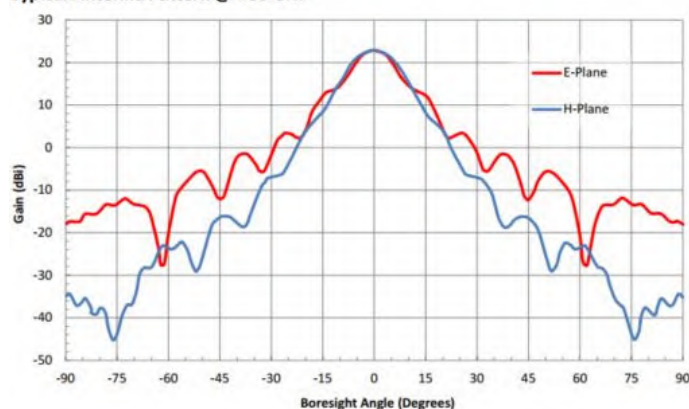
Frequency*	100GHz — 112GHz
Gain	23dB
3 dB Beamwidth, E-plane	11°
3 dB Beamwidth, H-plane	13°
Side Lobes, E-plane	20dB
Side Lobes, H-plane	28dB
Return Loss	23dB
Specification Temperature	+25°C
Operating Temperature	-40°C — +85°C

### Product Dimensions



### Test

#### Typical Antenna Pattern @ 106 GHz



#### Typical Gain vs. Frequency

