

# Conical Antenna

## OCN-075-20

Model OCN-075-20 is a D-band conical horn antenna that operates from 115 to 140 GHz. The antenna offers 20 dB nominal gain and a typical half power beamwidth of 16 degrees on the E-plane and 20 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 0.075" 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

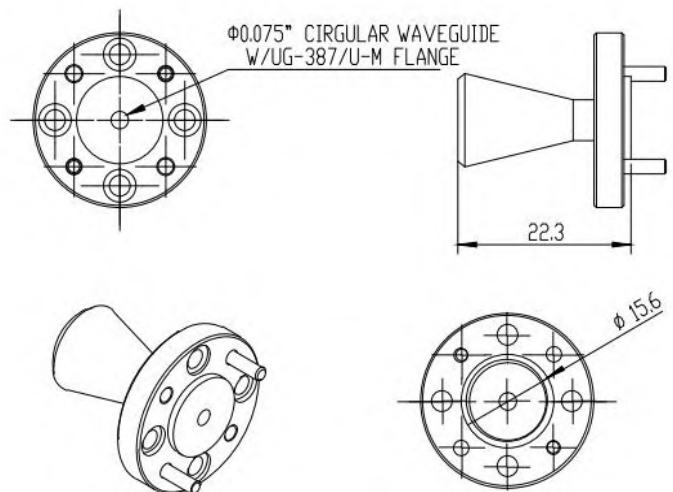
### Applications

Antenna Ranges  
Feed Horns  
System Setups

### Electrical Specifications

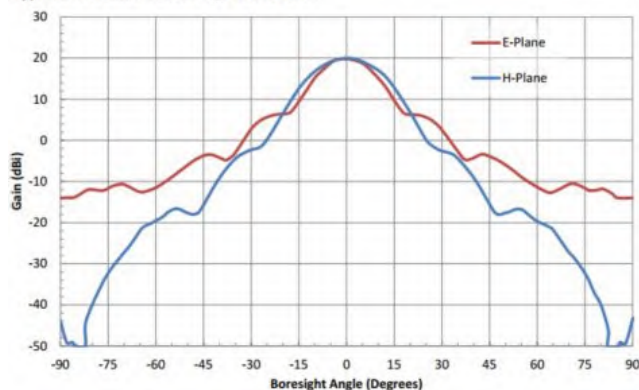
Frequency	( 115-140 ) GHz
Gain	20dB
3 dB Beamwidth, E-plane	16°
3 dB Beamwidth, H-plane	20°
Side Lobes, E-plane	-20dB
Side Lobes, H-plane	-28dB
VSWR	1.15:1
Specification Temperature	+25°C
Operating Temperature	-40°C — +85°C

### Product Dimensions



### Test

Typical Antenna Pattern @ 127.5 GHz



Typical Gain vs. Frequency

