

# Conical Antenna

## OCN-12-25

Model OCN-12-25 is an E-band conical horn antenna with aWR-12 rectangular waveguide interface that operates from 68 to 77 GHz.

The antenna offers 25 dB nominal gain and a typical halfpower beamwidth of 9 degrees on the E-plane and 10 degrees on the H-plane.

The horn also offers typical side lobes of -18 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 aWR-12 waveguide with UG-387/U flange.



### Features

Circular Waveguide Interface

Precisely Machined and Gold Plated

High Return Loss

Linear Polarization

### Applications

Antenna Ranges

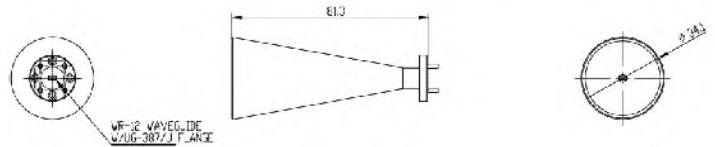
Feed Horns

System Setups

### Electrical Specifications

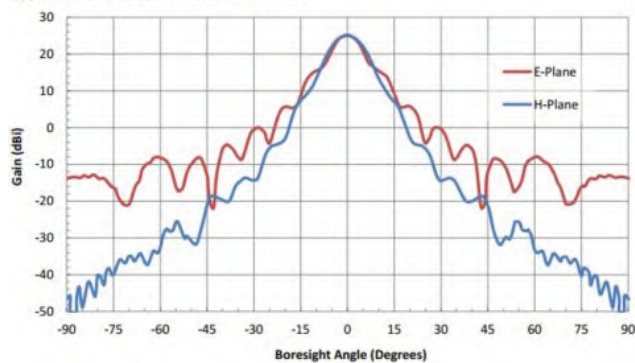
Frequency*	68GHz — 77GHz
Gain	25dB
3 dB Beamwidth, E-plane	9°
3 dB Beamwidth, H-plane	10°
Side Lobes, E-plane	-18dB
Side Lobes, H-plane	-28dB
VSWR	1.15:1
Specification Temperature	+25°C
Operating Temperature	-40°C — +85°C

### Product Dimensions



### Test

Typical Antenna Pattern @ 72.5 GHz



Typical Gain vs. Frequency

