

Conical Antenna

OCN-082-15

Model OCN-082-15 is an F-band conical horn antenna that operates from 100 to 112 GHz.

The antenna offers 15 dB nominal gain and a typical half power beamwidth of 30 degrees on the E-plane and 36 degrees on the H-plane. The horn also offers typical side lobes of -16 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

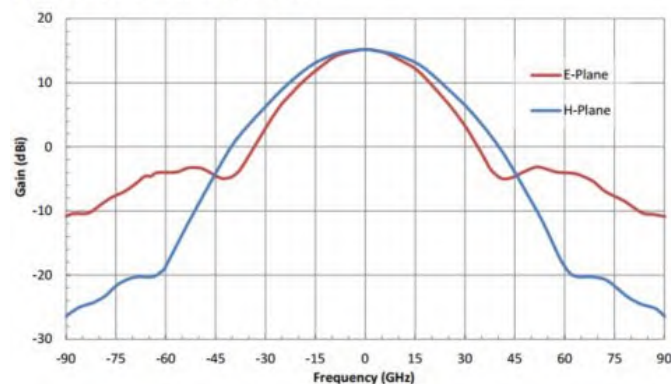
Antenna Ranges
Feed Horns
System Setups

Electrical Specifications

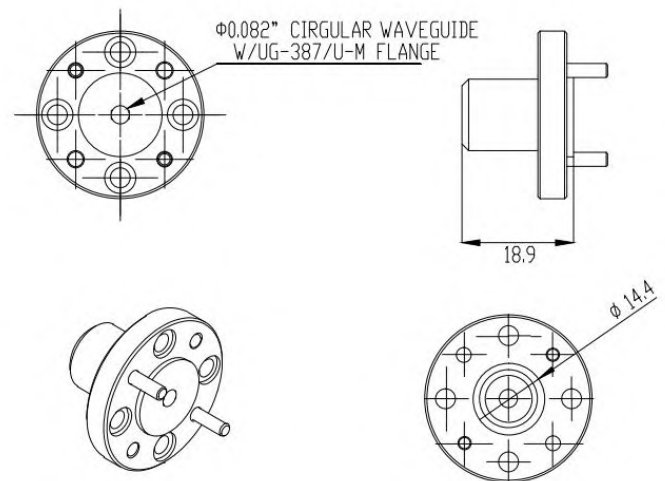
Frequency*	(100-112) GHz
Gain	15dB
3 dB Beamwidth, E-plane	30°
3 dB Beamwidth, H-plane	36°
Side Lobes, E-plane	-16dB
Side Lobes, H-plane	-28dB
VSWR	1.15:1
Specification Temperature	+25°C
Operating Temperature	-40°C — +85°C

Test

Typical Antenna Pattern @ 106 GHz



Product Dimensions



Typical Gain vs. Frequency

