

Conical Antenna

OCN-12-20

Model OCN-12-20 is an E-band conical horn antenna with a WR-12 rectangular waveguide interface that operates from 68 to 77 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 polarization. The RF connector of this antenna is a WR-12 waveguide with UG-387/U flange.



Features

Circular Waveguide Interface

Precisely Machined and Gold Plated

High Return Loss

Linear Polarization

Applications

Antenna Ranges

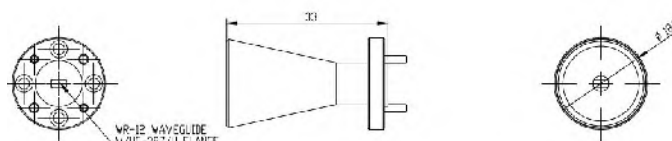
Feed Horns

System Setups

Electrical Specifications

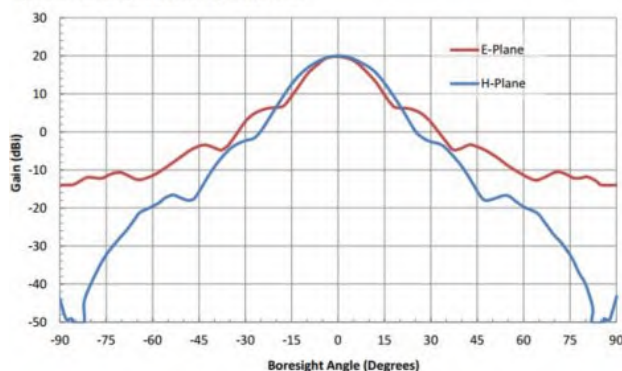
Frequency	(68-77) GHz
Gain	20dB
3 dB Beamwidth, E-plane	16°
3 dB Beamwidth, H-plane	20°
Side Lobes, E-plane	-20dB
Side Lobes, H-plane	-28dB
VSWR	1.15:1
Specification Temperature	+25°C
Operating Temperature	-40°C — +85°C

Product Dimensions



Test

Typical Antenna Pattern @ 72.5 GHz



Typical Gain vs. Frequency

