

Conical Antenna

OCN-075-25

Model OCN-075-25 is a D-band conical horn antenna that operates from 115 to 140 GHz.

The antenna offers 25 dB nominal gain and a typical half power 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 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 Polarization

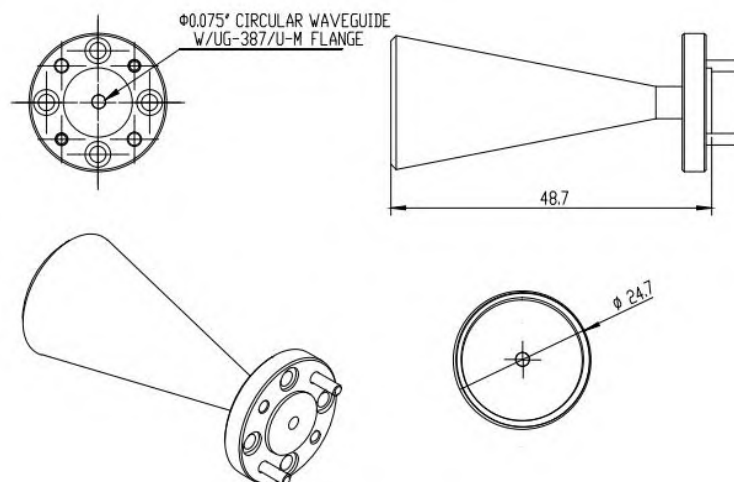
Applications

Antenna Ranges
Feed Horns
System Setups

Electrical Specifications

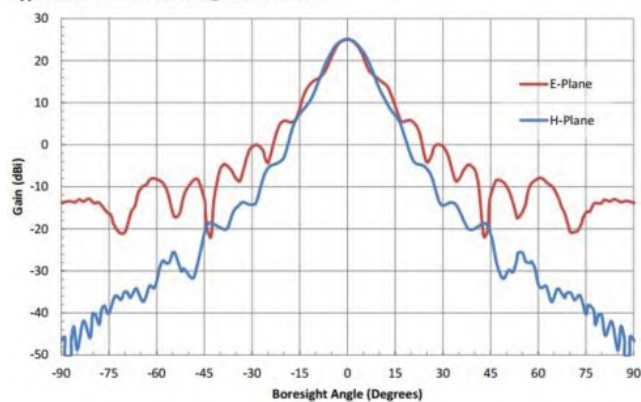
Frequency	(115-140) GHz
Gain	25dB
3 dB Beamwidth, E-plane	9°
3 dB Beamwidth, H-plane	10°
Side Lobes, E-plane	-18dB
Side Lobes, H-plane	-28dB
VSWR	1.15:1
Specification Temperature	+25°C
Operating Temperature	-40°C — +85°C

Product Dimensions



Test

Typical Antenna Pattern @ 127.5 GHz



Typical Gain vs. Frequency

