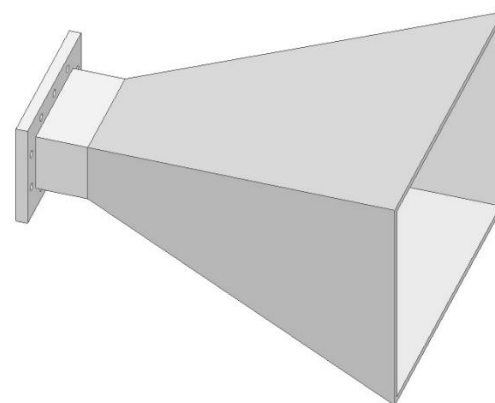


Electrical specifications

Frequency Range	3.3 – 4.9	[GHz]
VSWR (max.)	≤ 1.28	–
S_{11} (max.)	≤ -18	[dB]
Impedance	50	[Ω]
Connector	WR229	–
Power (CW)	10	[W]
Power (Impulse)	20	[W]
Gain	14.5	[dBi]
Polarization	Linear	–

Physical specifications

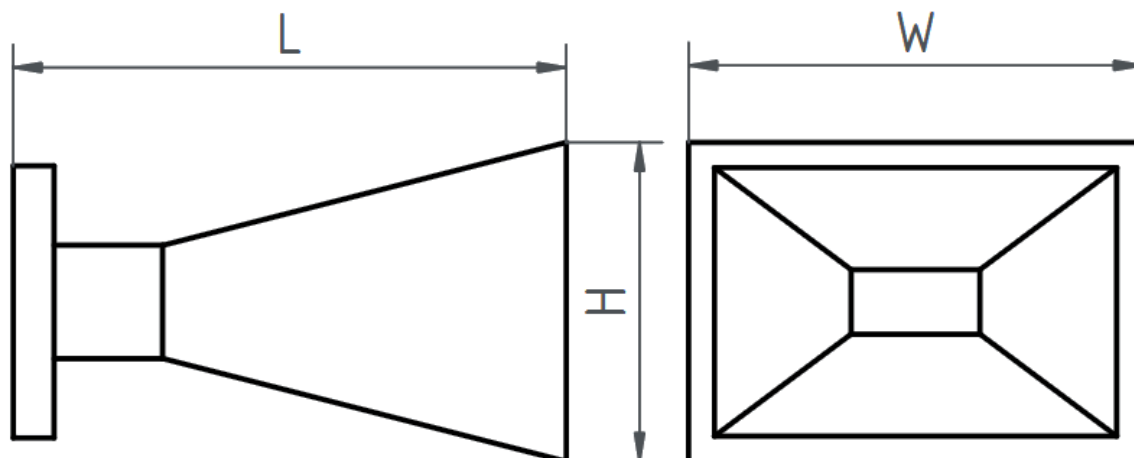
W x L x H	see p. 2	[mm ³]
Weight	see p. 2	[g]



This antenna and its various versions are 3D-printed in plastic before undergoing a copper metallization process with a tin finish. They are also coated with a silicone layer.

All the following graphs are based on electromagnetic simulations

Technical Drawing





Pyramidal Horn Antenna

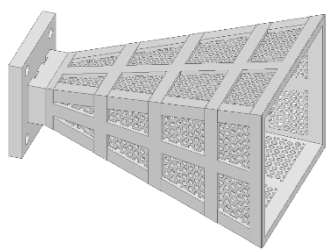
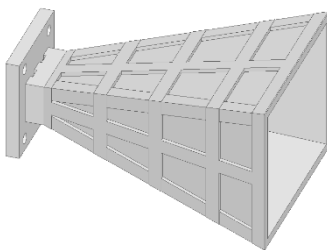
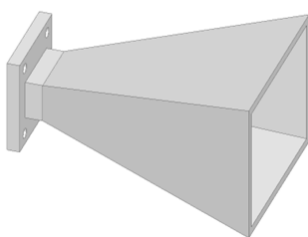
3.3 – 4.9 GHz

Design

Standard (STD)

Light Weight (LW)

Ultra Light Weight (ULW)



W x L x H
[mm³]

188 x 233 x 137

188 x 233 x 137

188 x 233 x 137

Weight [g]

~672

~455

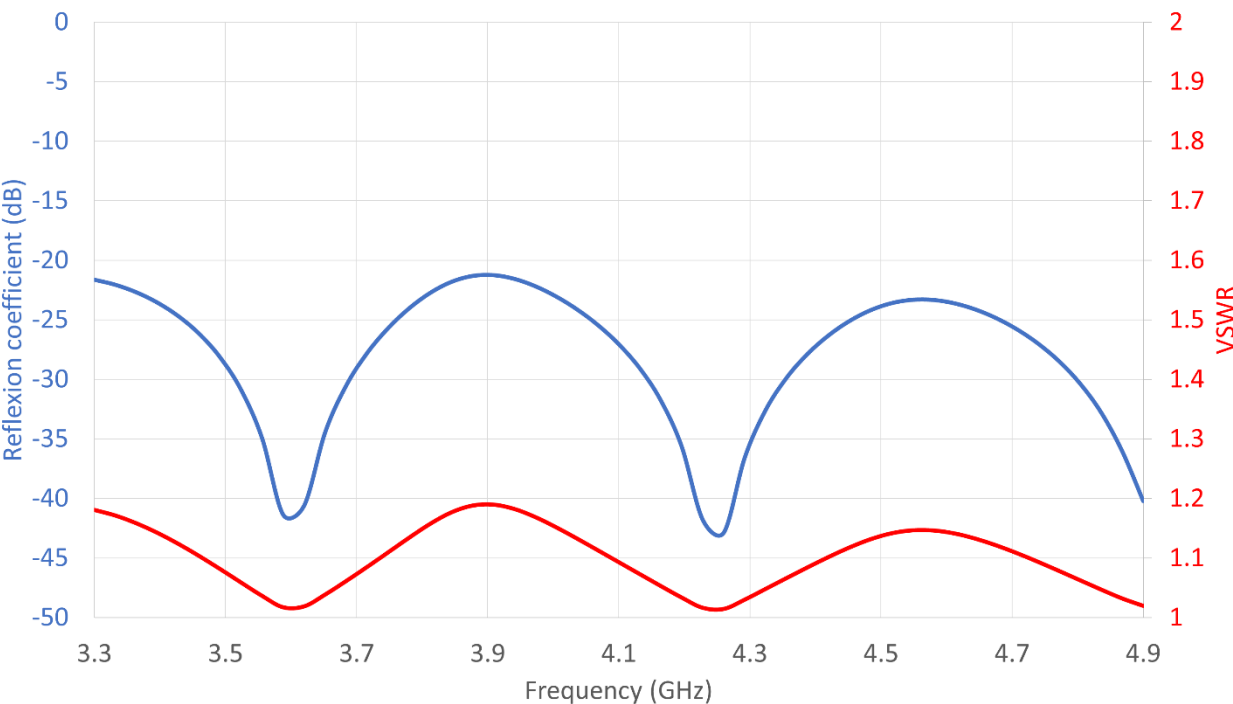
~435



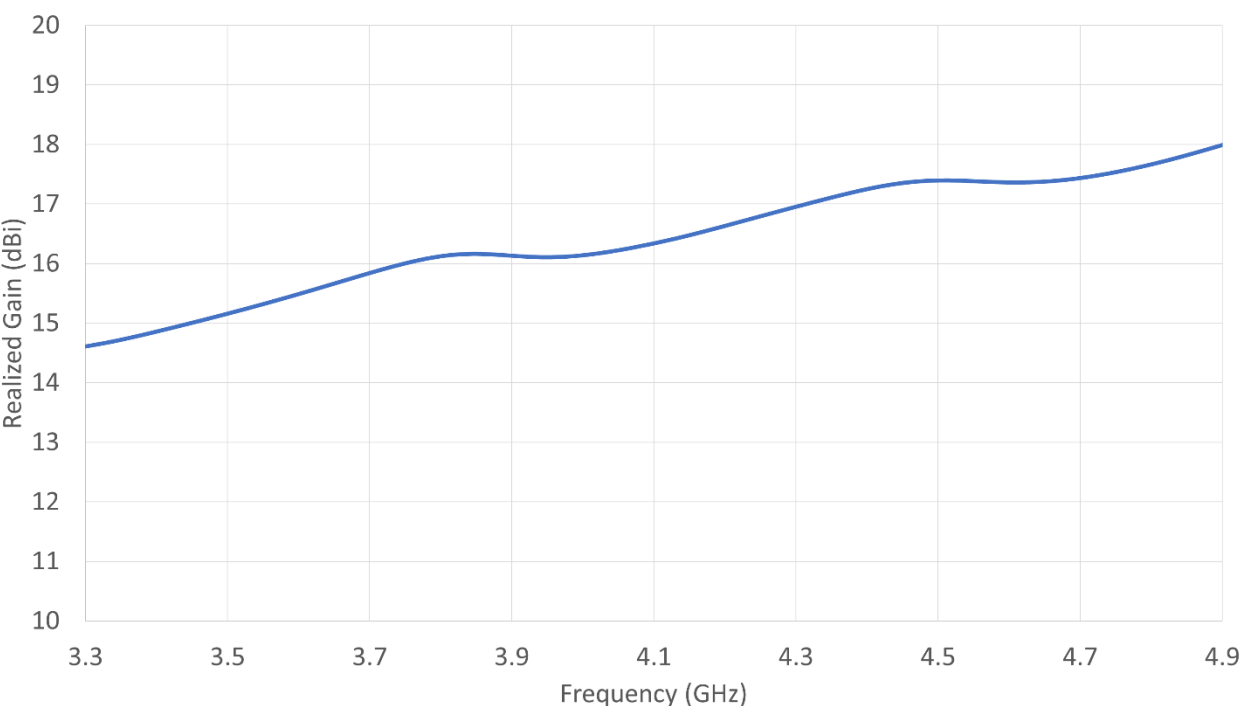
Pyramidal Horn Antenna

3.3 – 4.9 GHz

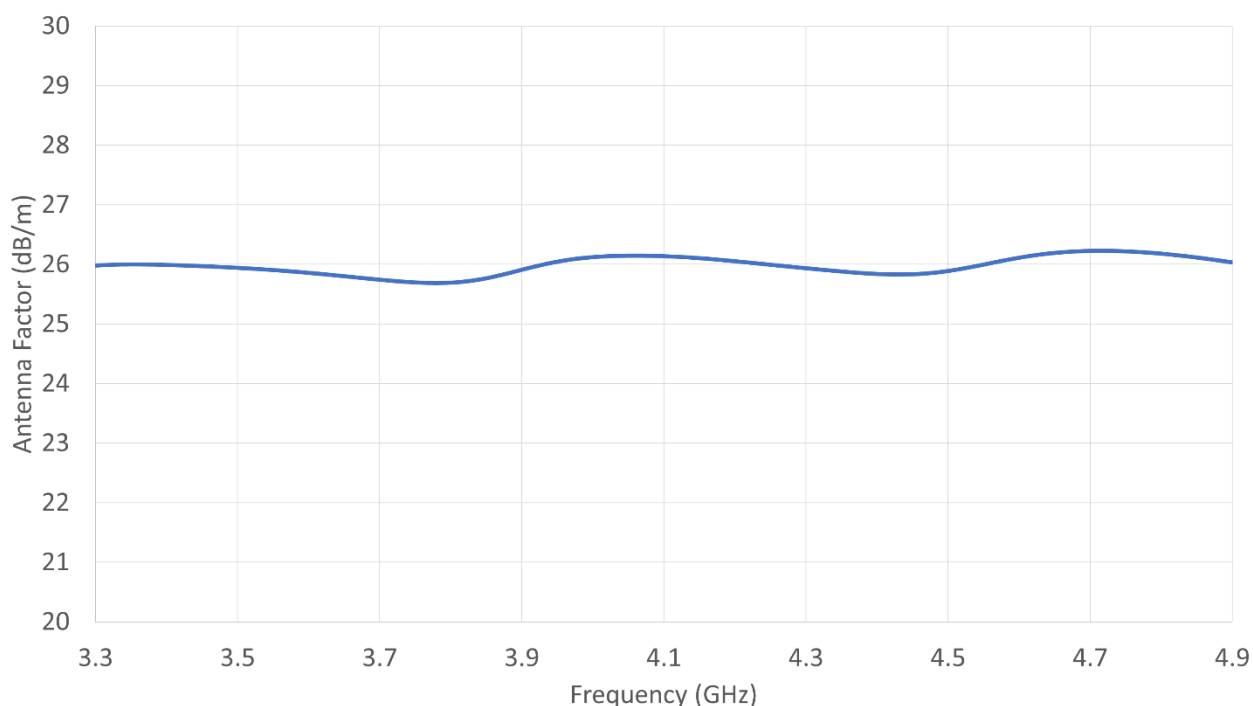
Reflexion coefficient



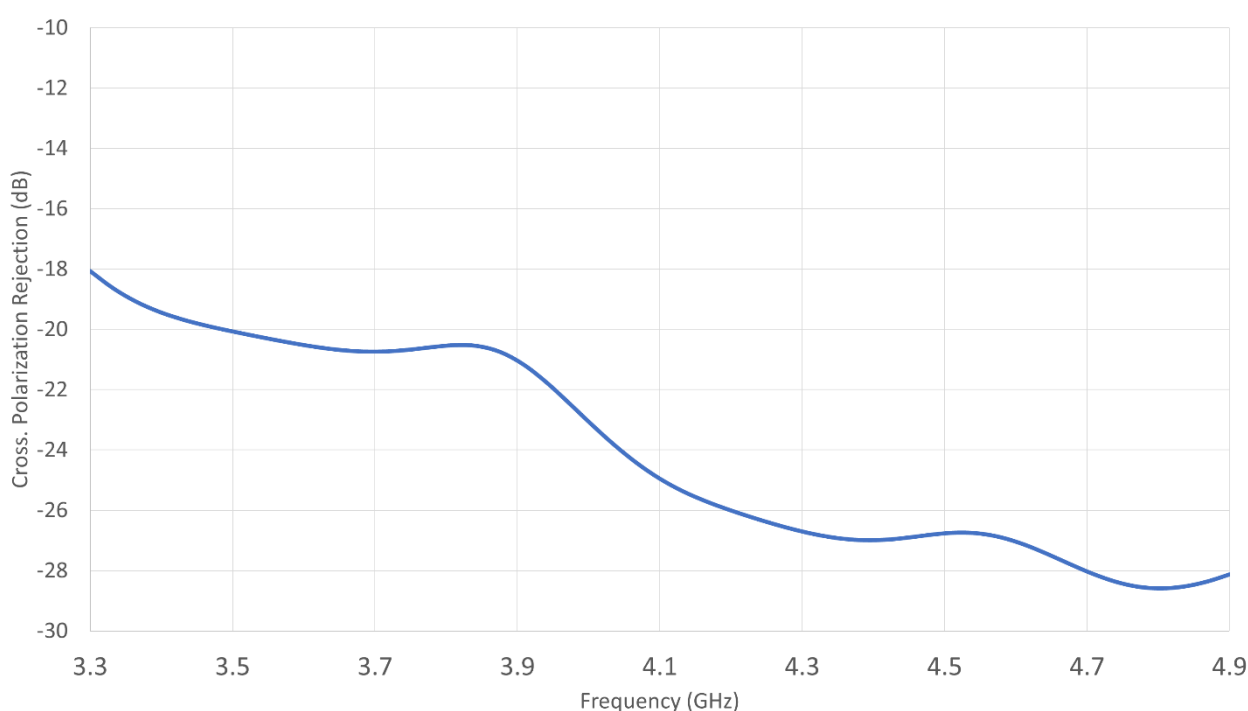
Gain



Antenna Factor



Cross. Pol. Rejection



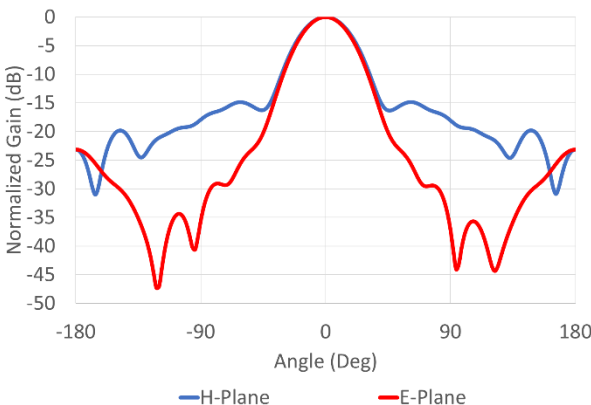


Pyramidal Horn Antenna

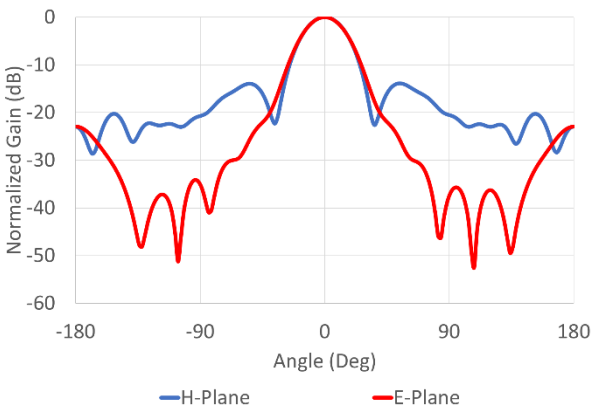
3.3 – 4.9 GHz

Radiation patterns

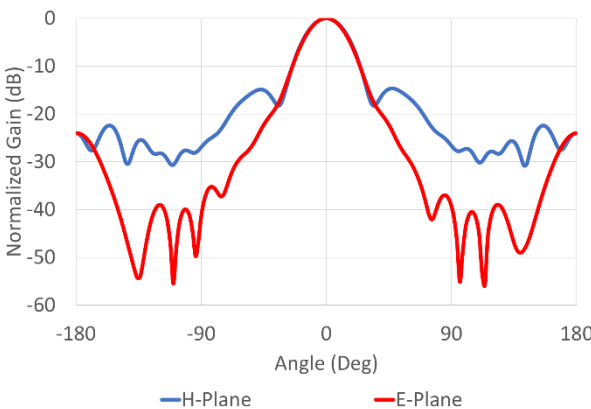
3.3 GHz



3.8 GHz



4.3 GHz



4.9 GHz

