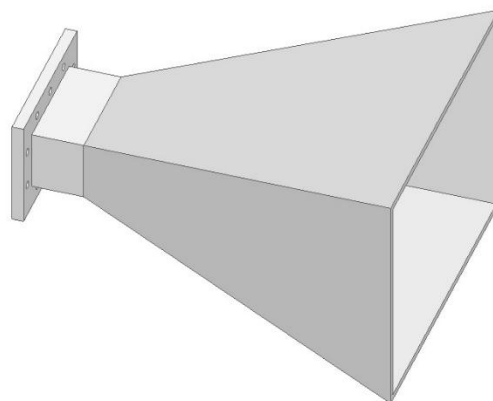


Electrical specifications

Frequency Range	7,05 – 10	[GHz]
VSWR (max.)	≤ 1.28	–
S_{11} (max.)	≤ -18	[dB]
Impedance	50	[Ω]
Connector	WR112	–
Power (CW)	10	[W]
Power (Impulse)	20	[W]
Gain	14.5	[dBi]
Polarization	Linear	–

Physical specifications

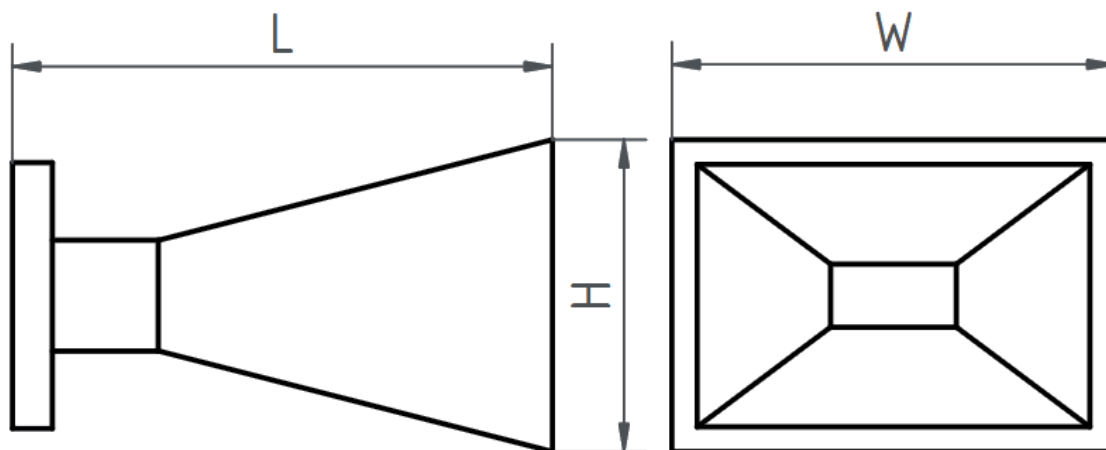
W x L x H	see p. 2	[mm ³]
Weight	see p. 2	[g]



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

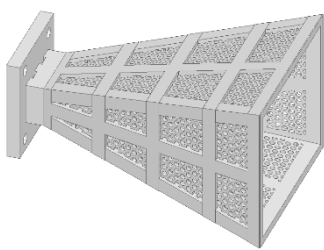
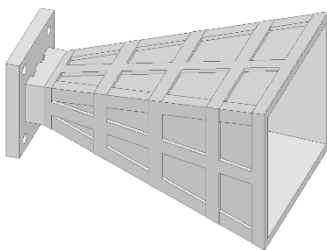
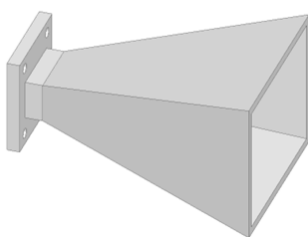
7,05 – 10 GHz

Design

Standard (STD)

Light Weight (LW)

Ultra Light Weight (ULW)



W x L x H
[mm³]

90 x 110 x 66

90 x 110 x 66

90 x 110 x 66

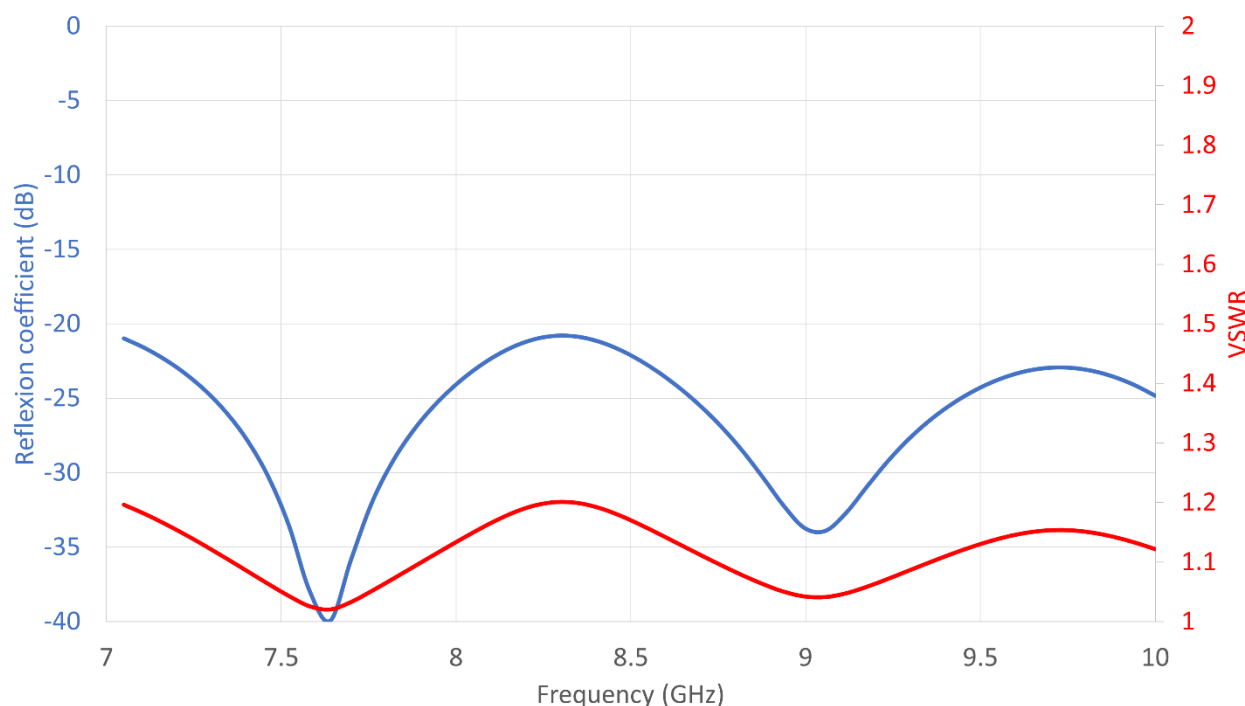
Weight [g]

~122

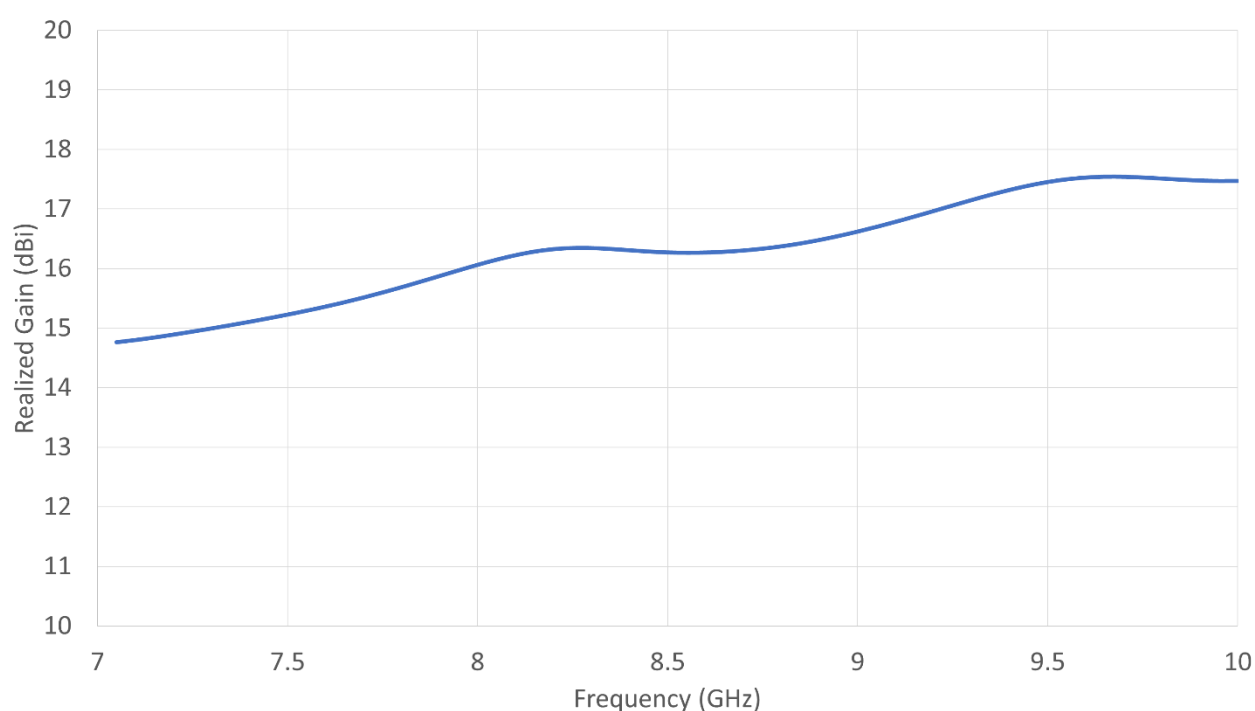
~104

~96

Reflexion coefficient



Gain

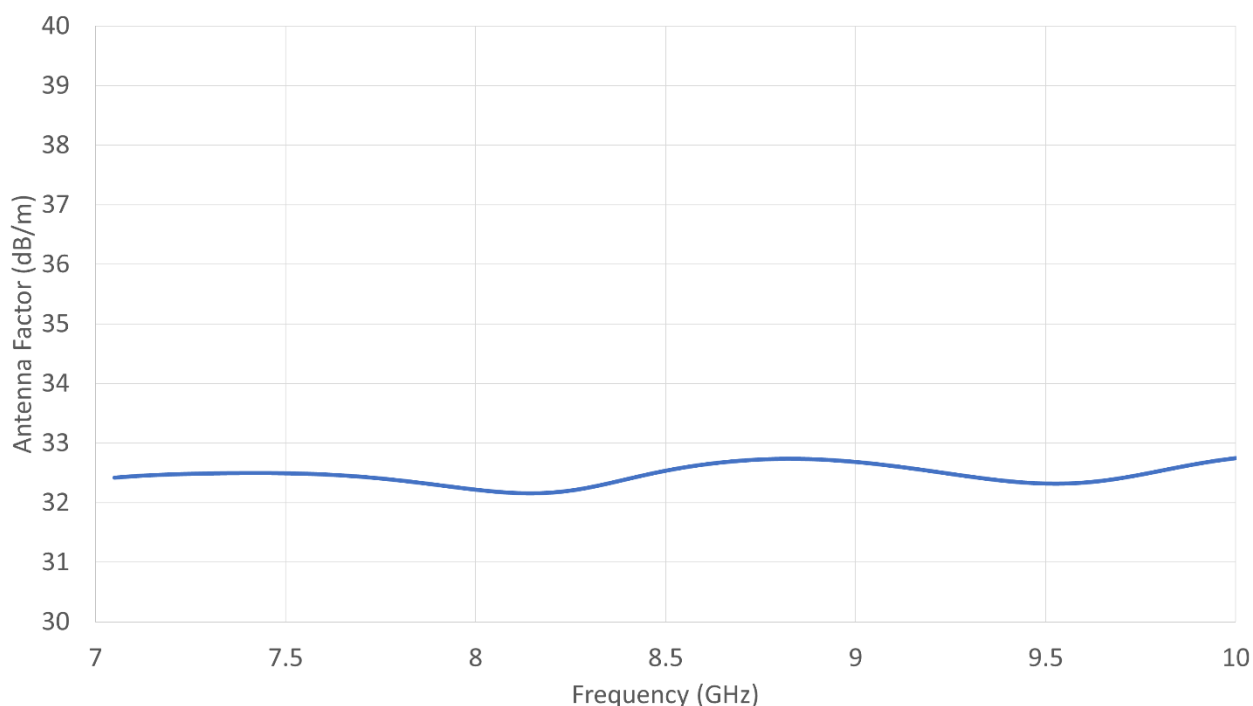




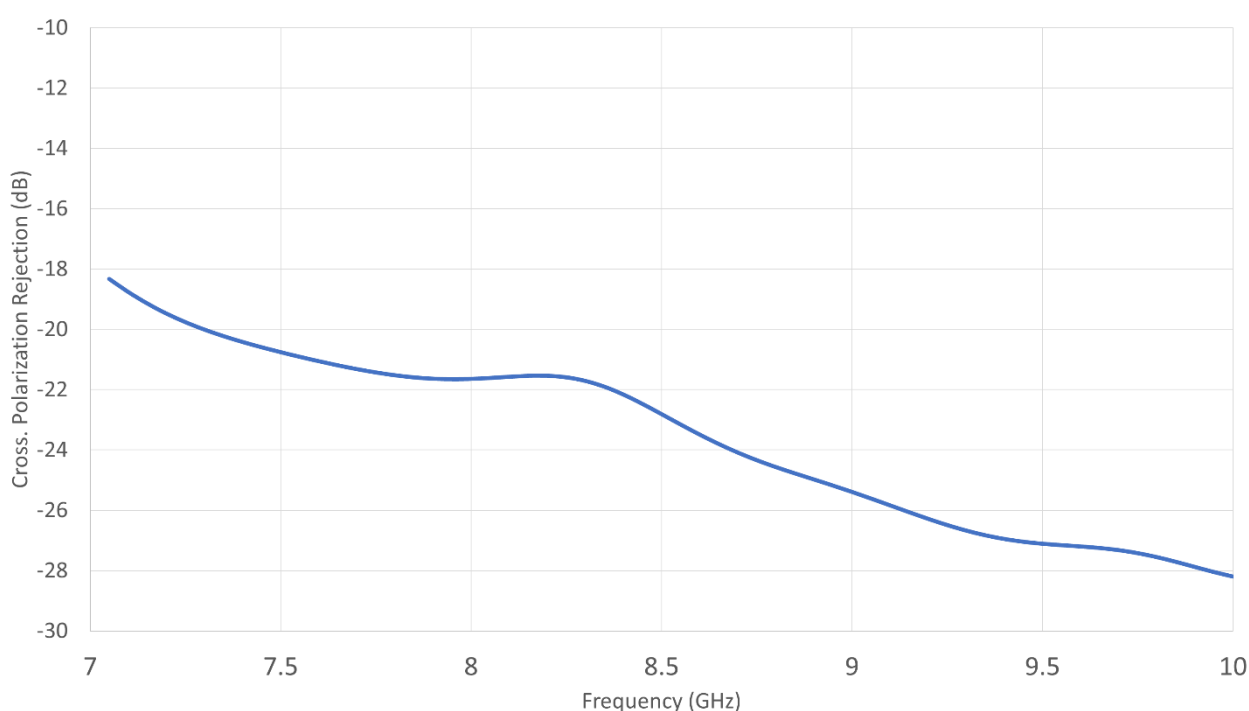
Pyramidal Horn Antenna

7,05 – 10 GHz

Antenna Factor

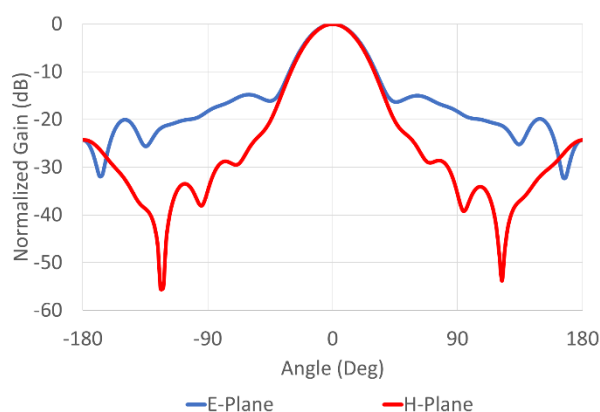


Cross. Pol. Rejection

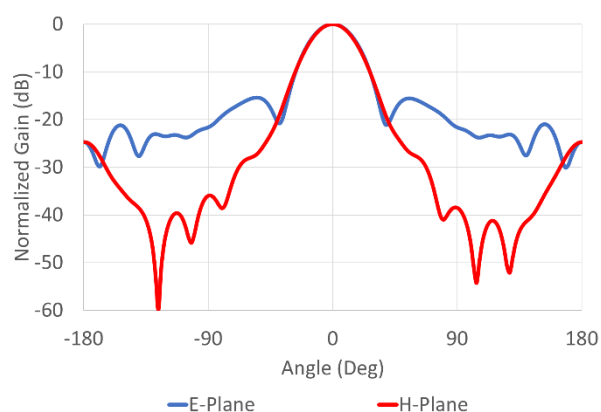


Radiation patterns

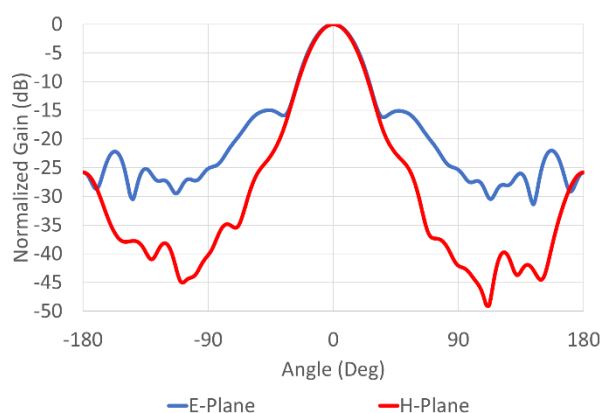
7,05 GHz



8 GHz



9 GHz



10 GHz

