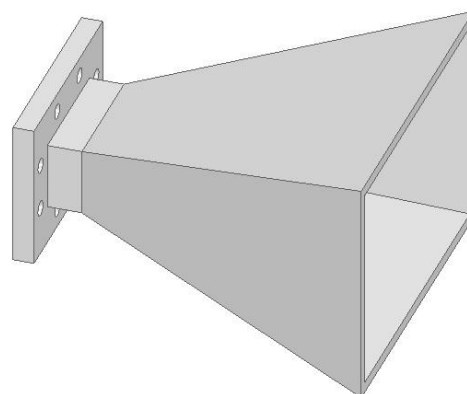


Electrical specifications

Frequency Range	5.85 – 8.2	[GHz]
VSWR (max.)	≤ 1.28	–
S_{11} (max.)	≤ -18	[dB]
Impedance	50	[Ω]
Connector	WR137	–
Power (CW)	10	[W]
Power (Impulse)	20	[W]
Gain	14.5	[dBi]
Polarization	Linear	–



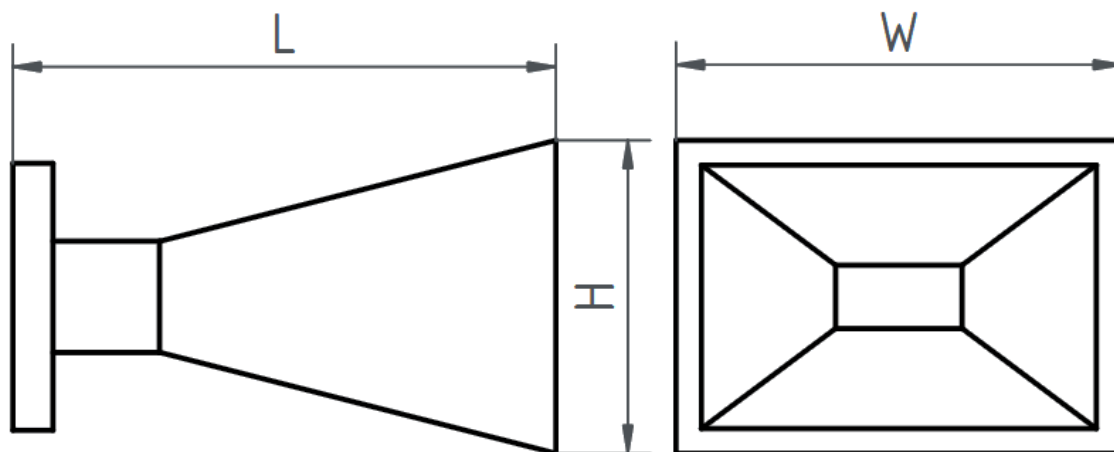
Physical specifications

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

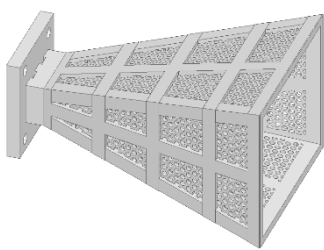
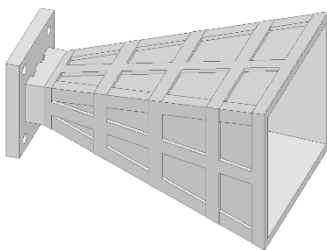
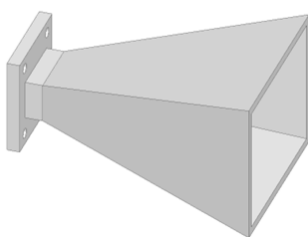
5.85 – 8.2 GHz

Design

Standard (STD)

Light Weight (LW)

Ultra Light Weight (ULW)



W x L x H
[mm³]

112 x 123 x 77

112 x 123 x 77

112 x 123 x 77

Weight [g]

~195

~160

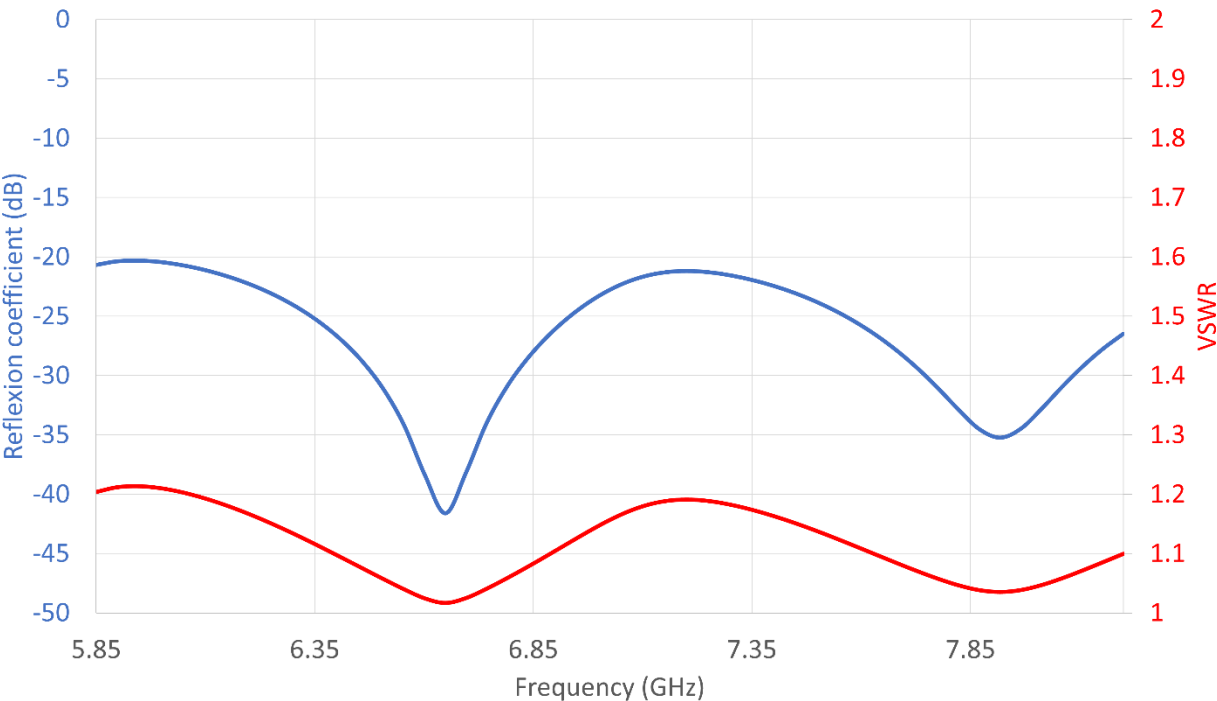
~143



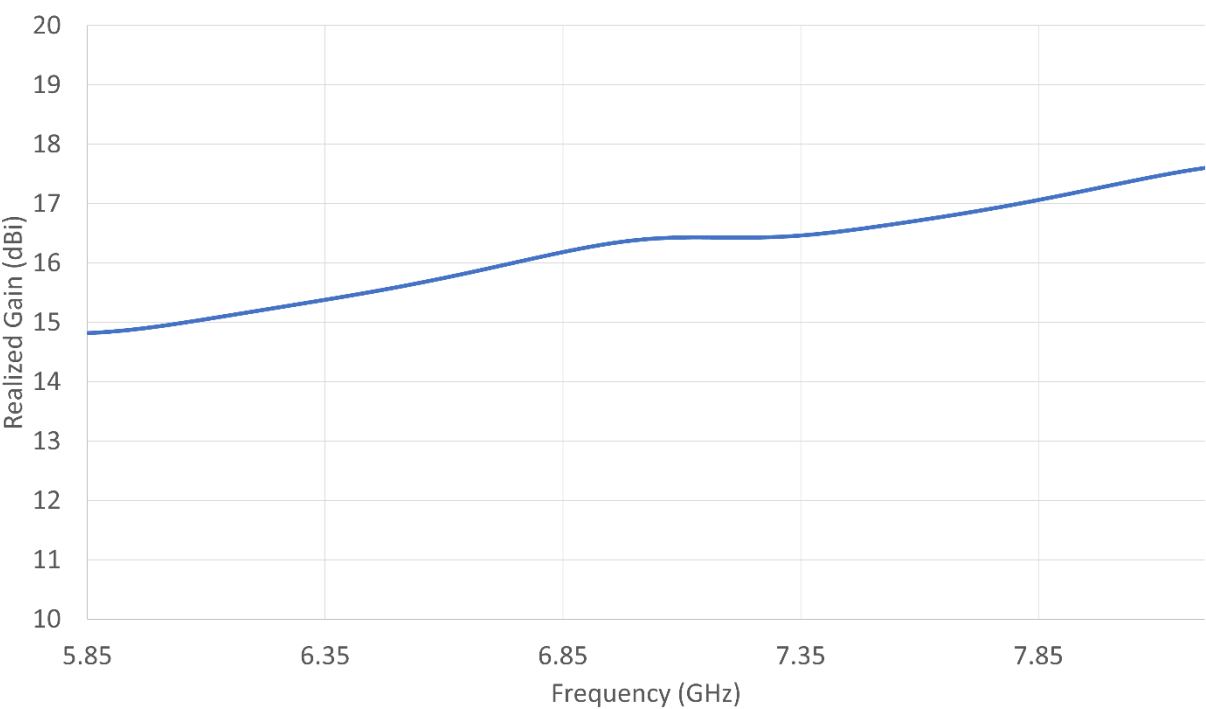
Pyramidal Horn Antenna

5.85 – 8.2 GHz

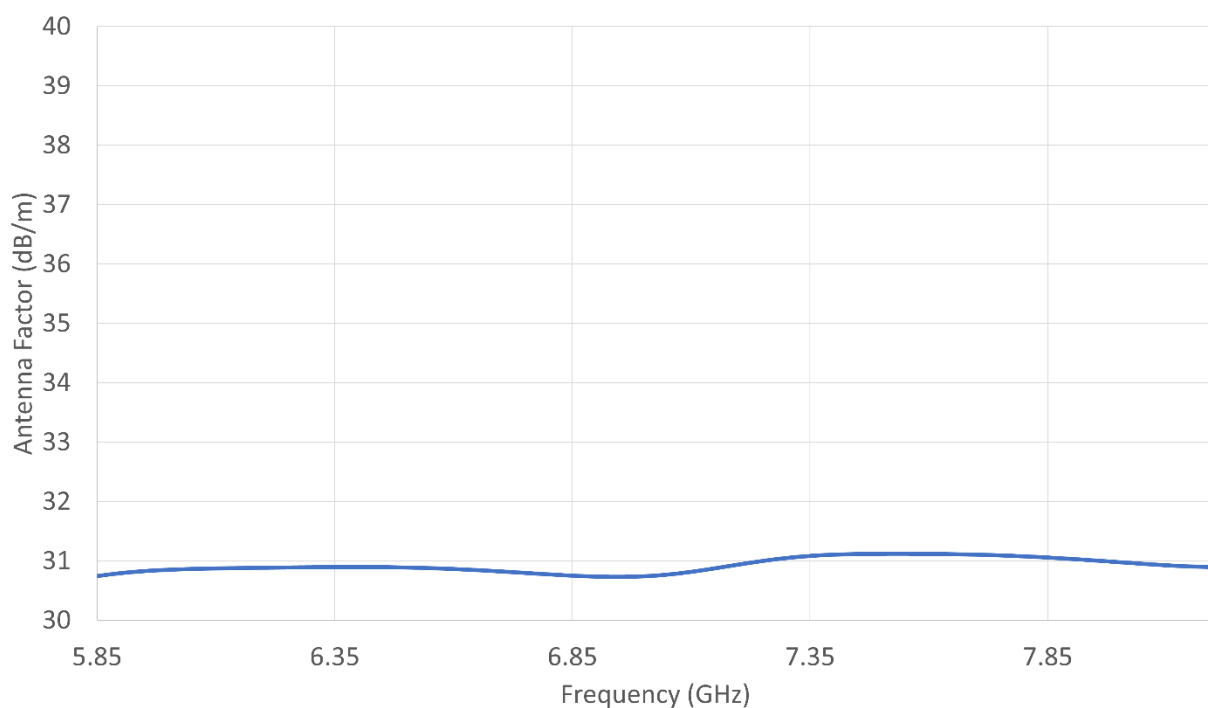
Reflexion coefficient



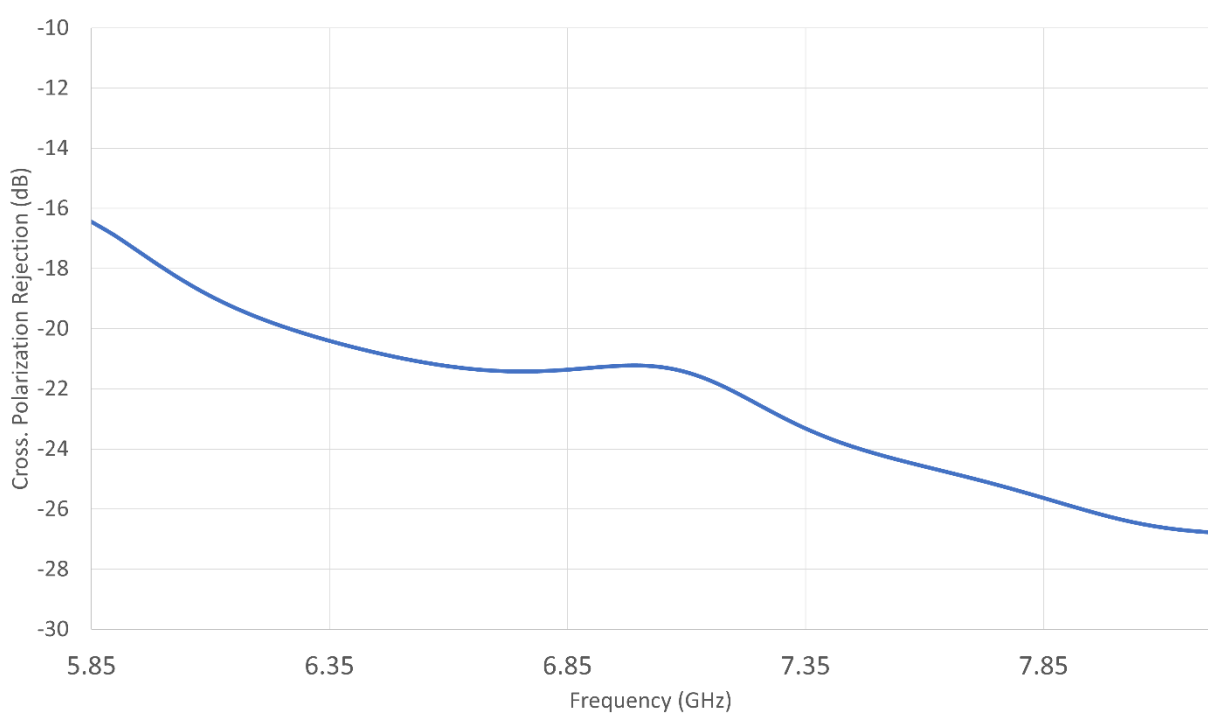
Gain



Antenna Factor

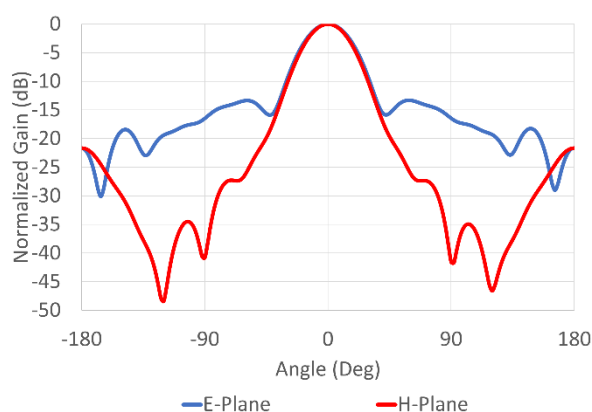


Cross. Pol. Rejection

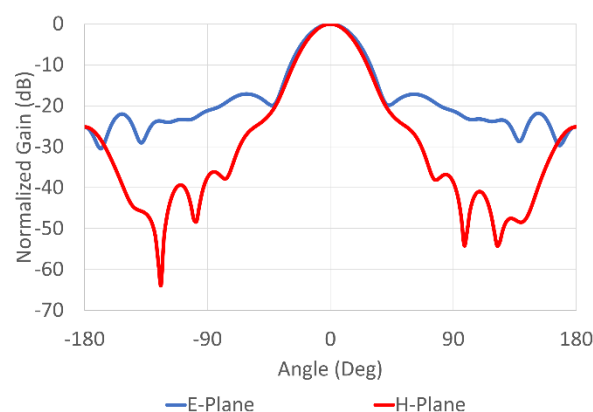


Radiation patterns

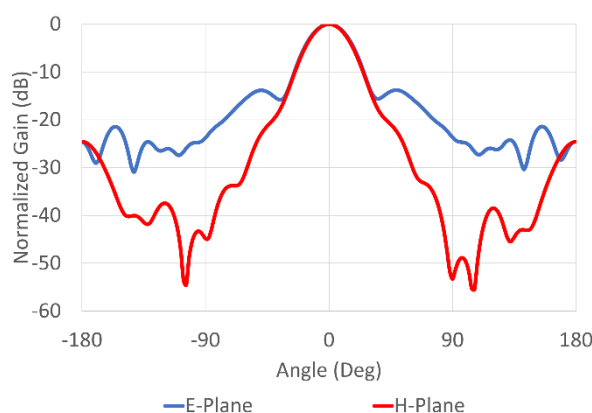
5.85 GHz



6.6 GHz



7.4 GHz



8.5 GHz

