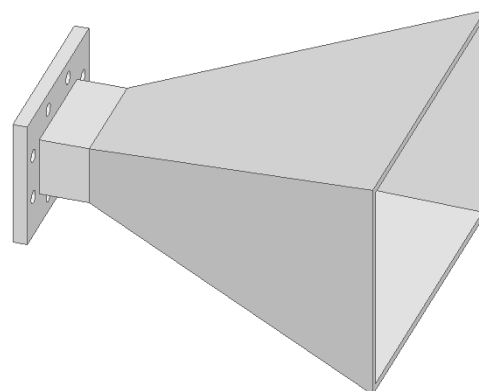


Electrical specifications

Frequency Range	3.95 – 5.85	[GHz]
VSWR (max.)	≤ 1.28	–
S_{11} (max.)	≤ -18	[dB]
Impedance	50	[Ω]
Connector	WR187	–
Power (CW)	10	[W]
Power (Impulse)	20	[W]
Gain	14.5	[dBi]
Polarization	Linear	–



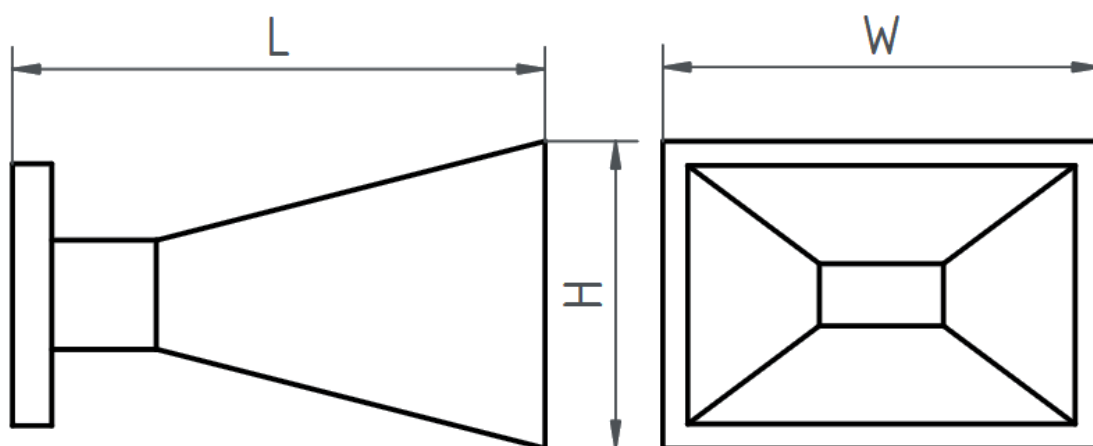
Physical specifications

W x L x H	<i>see p. 2</i>	[mm ³]
Weight	<i>see p. 2</i>	[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

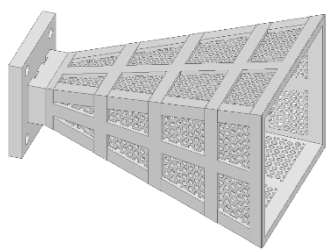
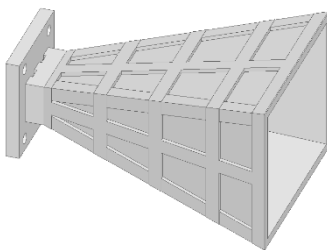
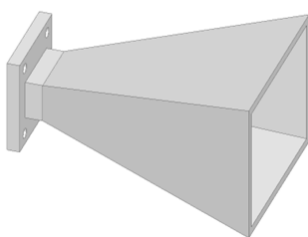
3.95 – 5.85 GHz

Design

Standard (STD)

Light Weight (LW)

Ultra Light Weight (ULW)



W x L x H
[mm³]

163 x 190 x 111

163 x 190 x 111

163 x 190 x 111

Weight [g]

~400

~310

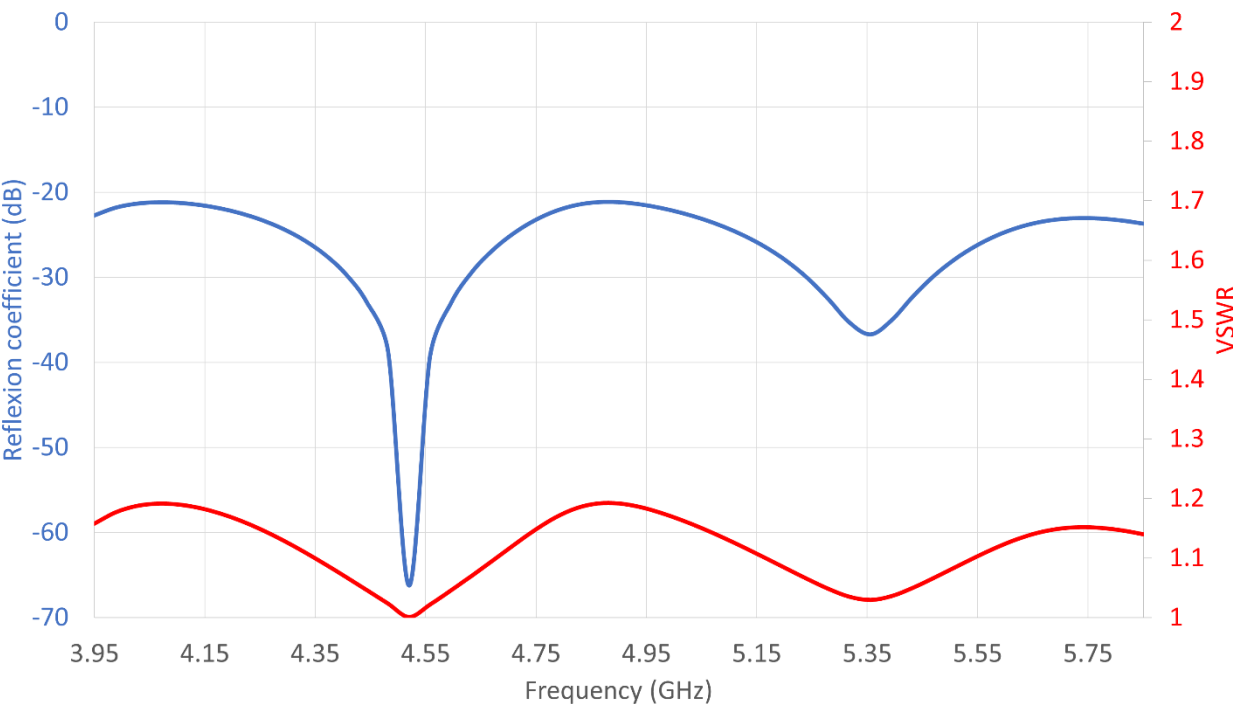
~275



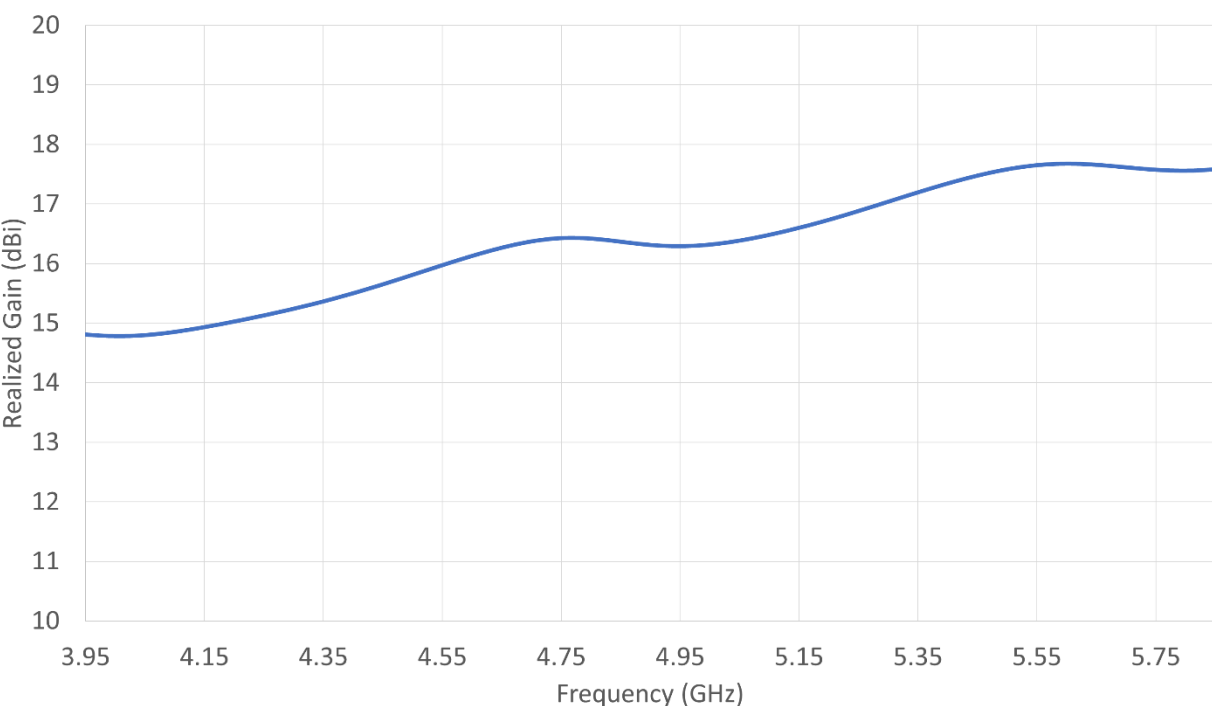
Pyramidal Horn Antenna

3.95 – 5.85 GHz

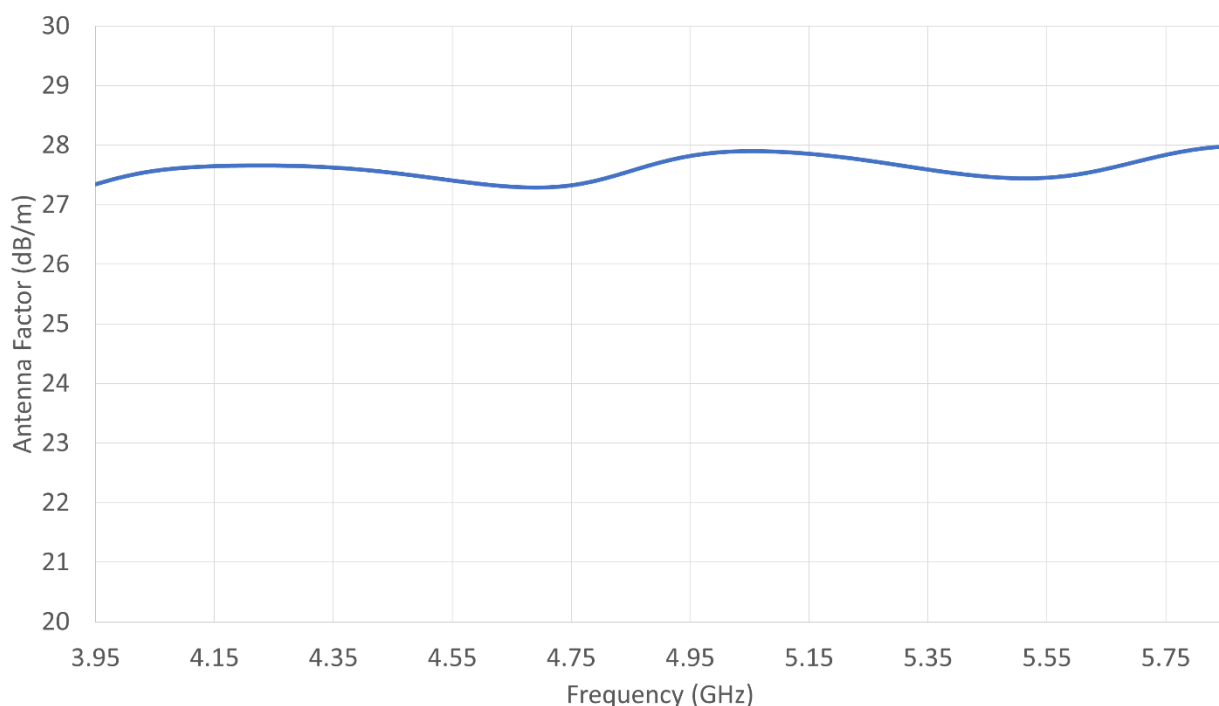
Reflexion coefficient



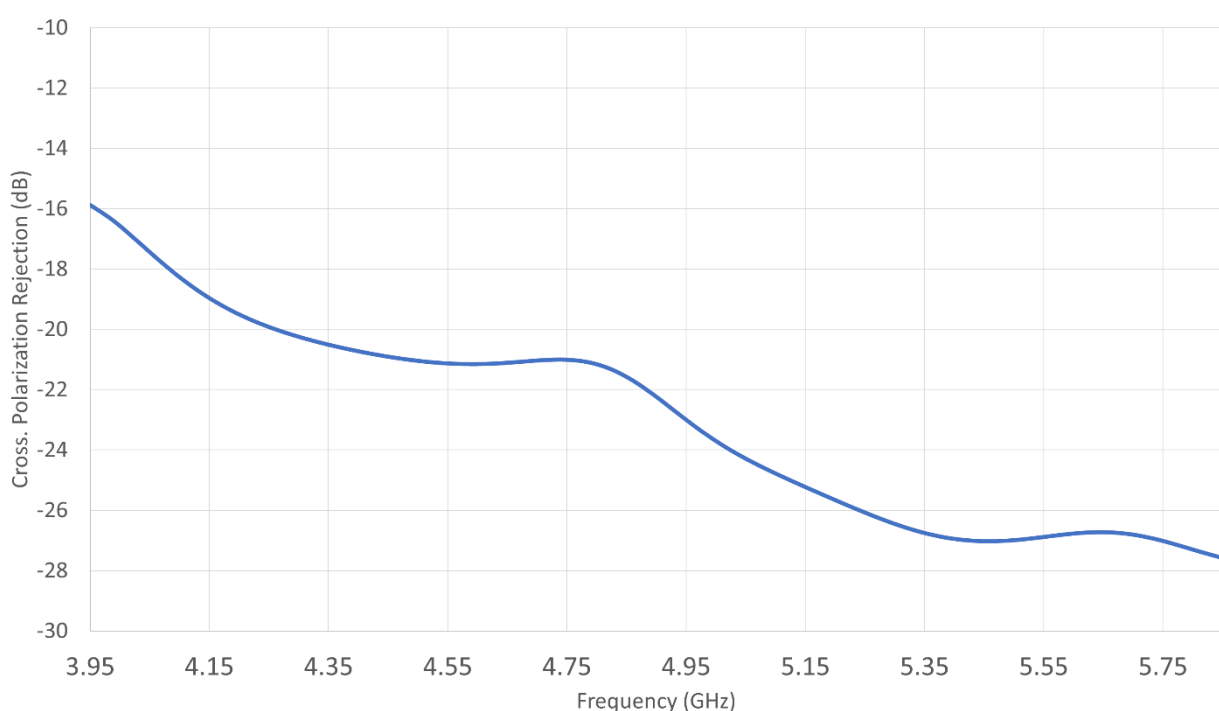
Gain



Antenna Factor

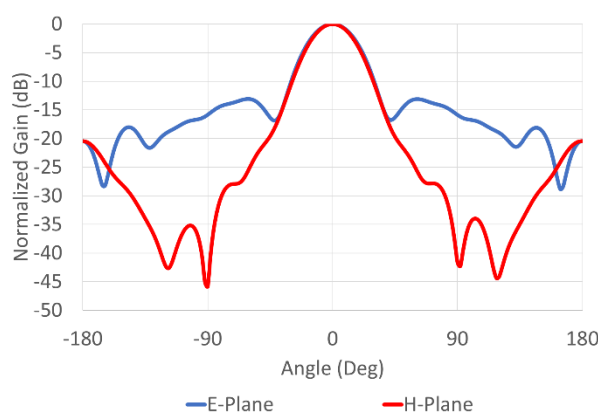


Cross. Pol. Rejection

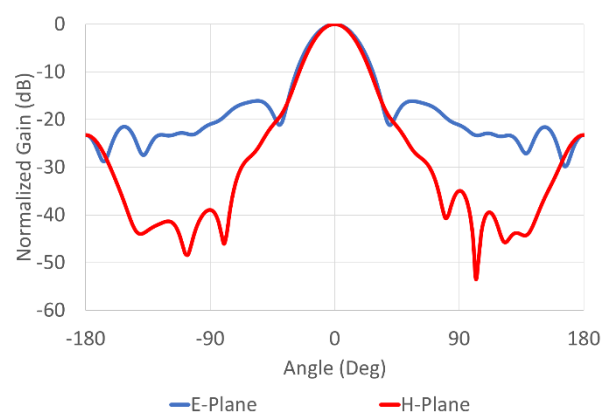


Radiation patterns

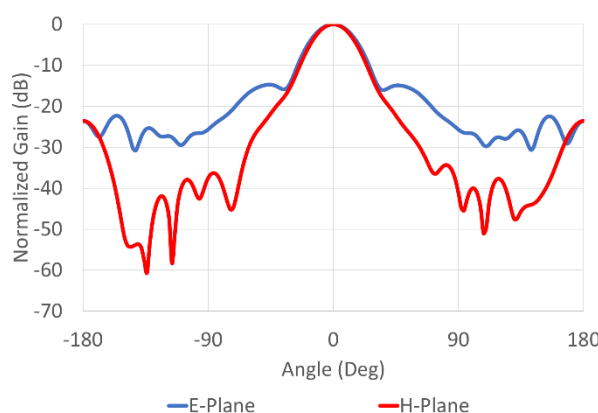
3.95 GHz



4.6 GHz



5.2 GHz



5.85 GHz

