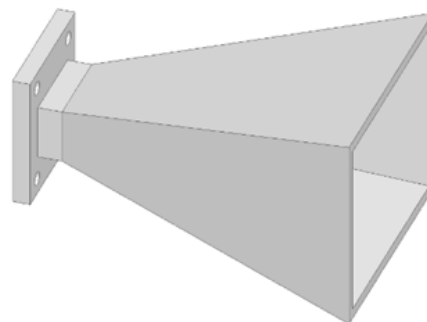


Electrical specifications

Frequency Range	10 – 15	[GHz]
VSWR (max.)	≤ 1.28	–
S₁₁ (max.)	≤ -18	[dB]
Impedance	50	[Ω]
Connector	<i>Flange</i>	–
Power (CW)	10	[W]
Power (Impulse)	20	[W]
Gain (min.)	15	[dBi]
Polarization	Linear	–



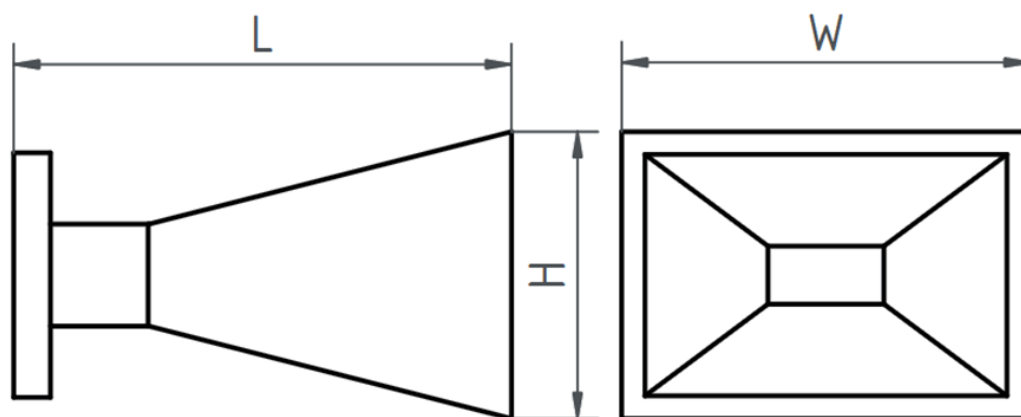
Physical specifications

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

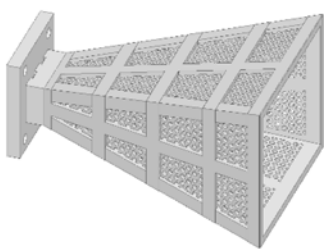
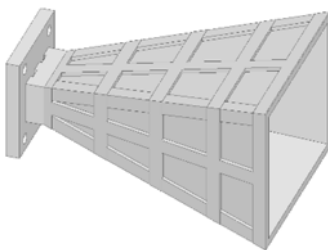
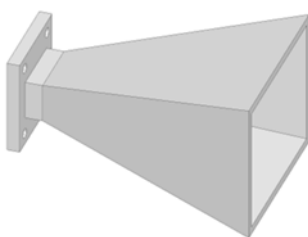
10 – 15 GHz

Design

Standard (STD)

Light Weight (LW)

Ultra Light Weight (ULW)



W x L x H
[mm³]

71 x 102 x 53

71 x 102 x 56

71 x 102 x 56

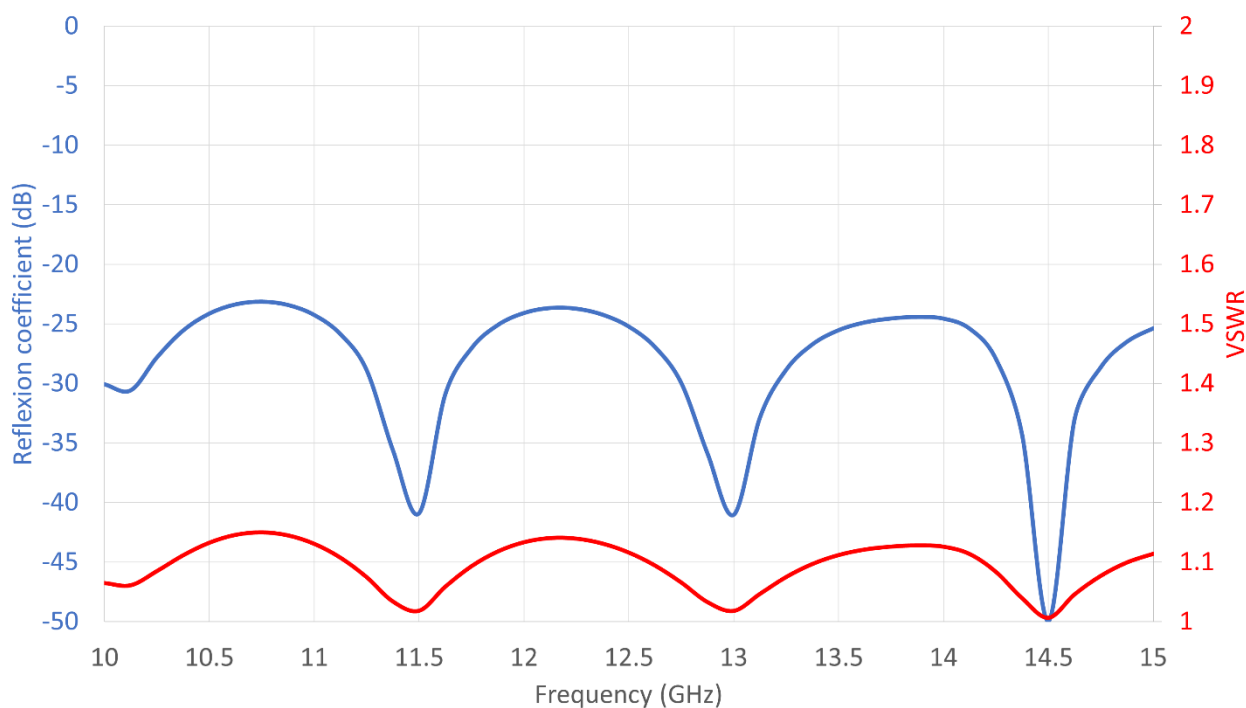
Weight [g]

~85

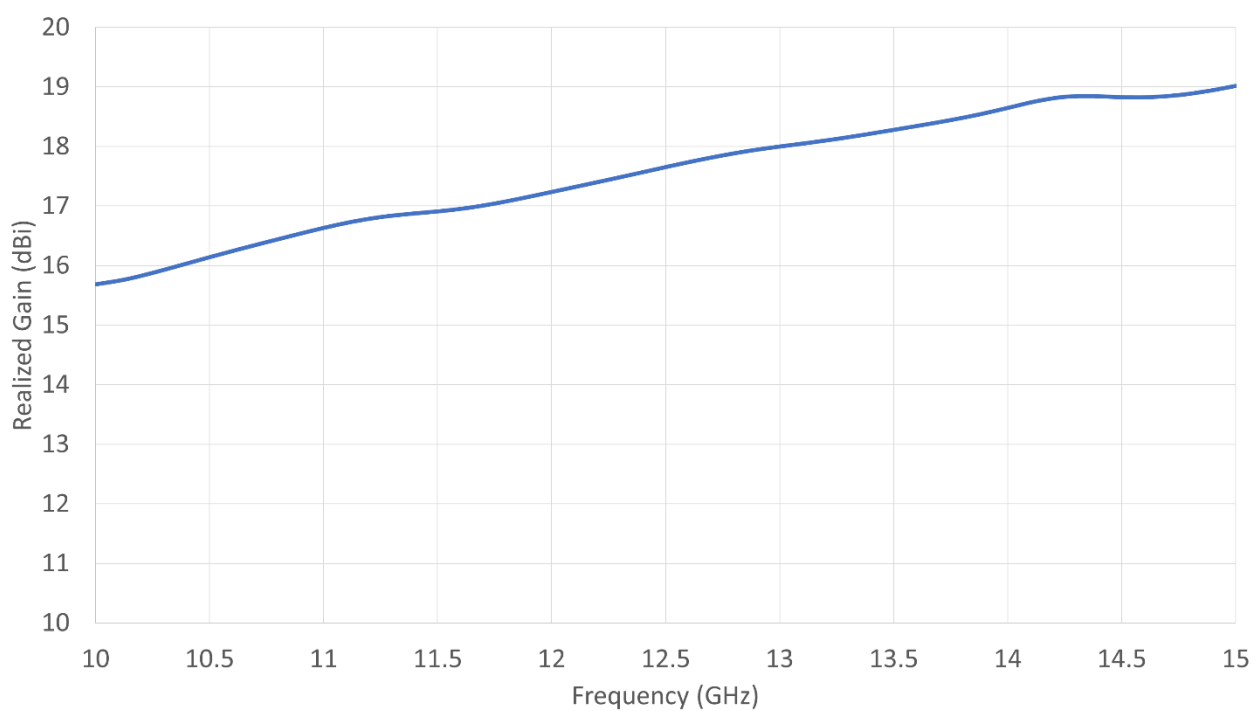
~68

~60

Reflexion coefficient



Gain

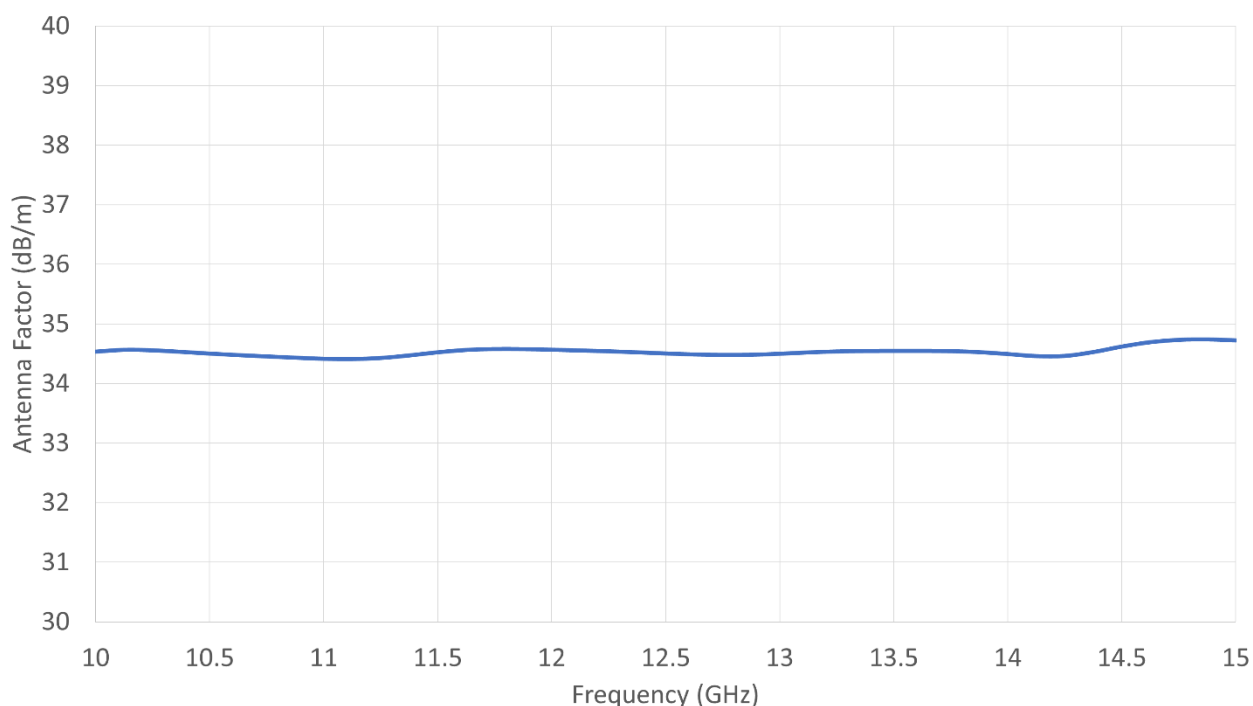




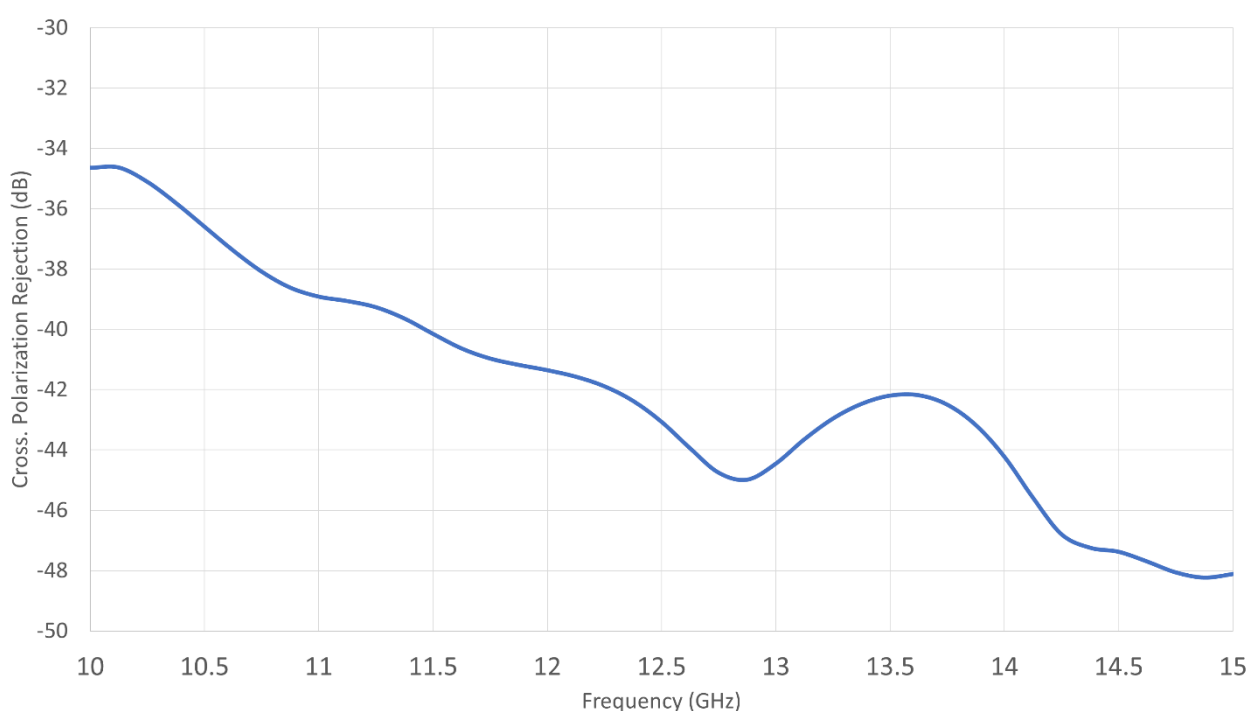
Pyramidal Horn Antenna

10 – 15 GHz

Antenna Factor

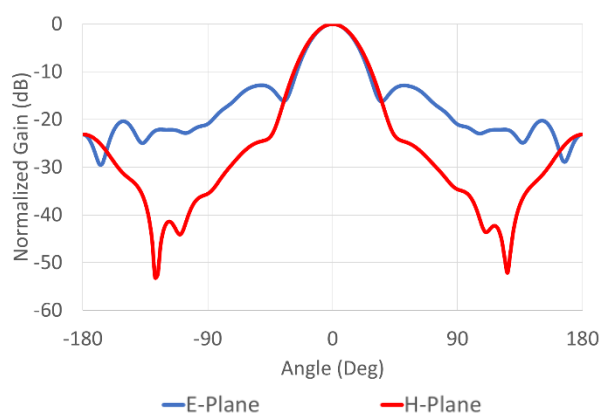


Cross. Pol. Rejection

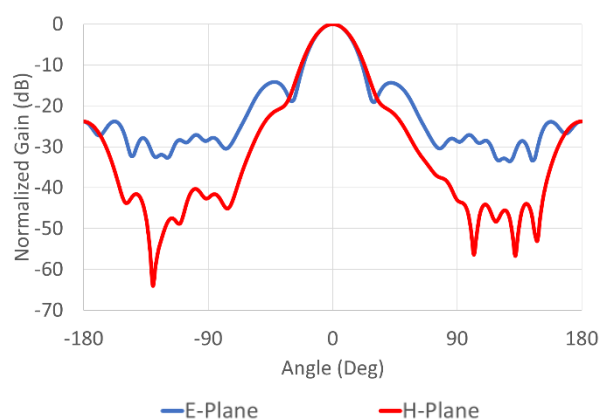


Radiation patterns

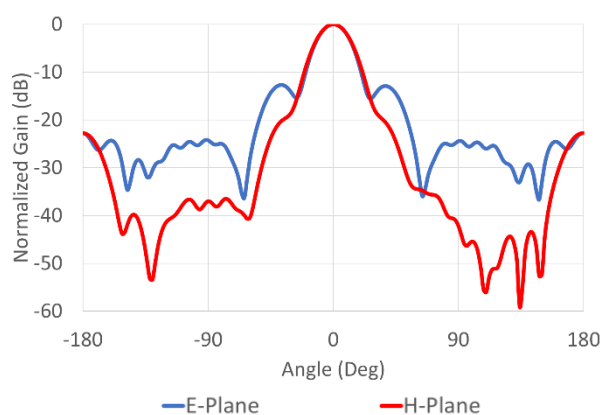
10 GHz



12.5 GHz



13.5 GHz



15 GHz

