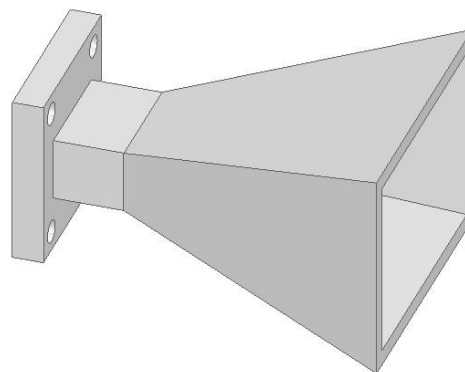


Electrical specifications

Frequency Range	18 – 26.5	[GHz]
VSWR (max.)	≤ 1.28	–
S_{11} (max.)	≤ -18	[dB]
Impedance	50	[Ω]
Connector	Flange	–
Power (CW)	10	[W]
Power (Impulse)	20	[W]
Gain	14.5	[dBi]
Polarization	Linear	–



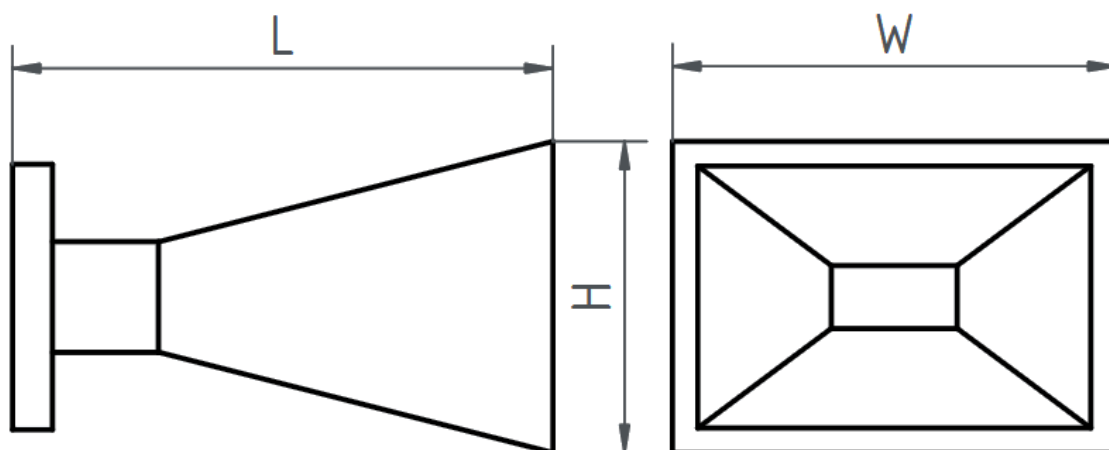
Physical specifications

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



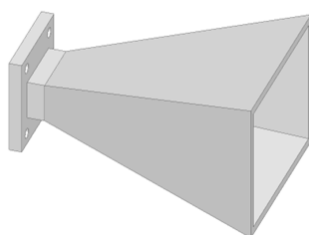


Pyramidal Horn Antenna

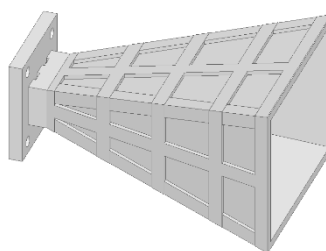
18 – 26.5 GHz

Design

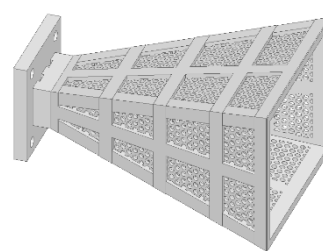
Standard (STD)



Light Weight (LW)



Ultra Light Weight (ULW)



W x L x H
[mm³]

37 x 50 x 28

37 x 50 x 28

37 x 50 x 28

Weight [g]

~15

~12

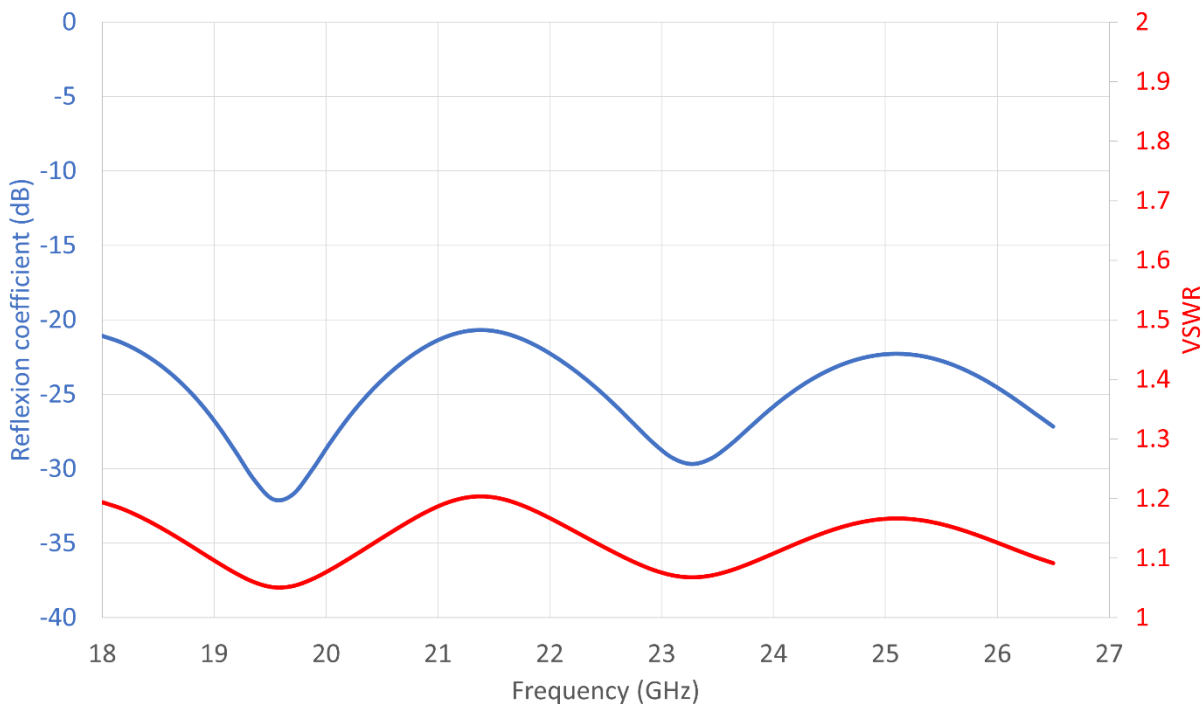
~10.5



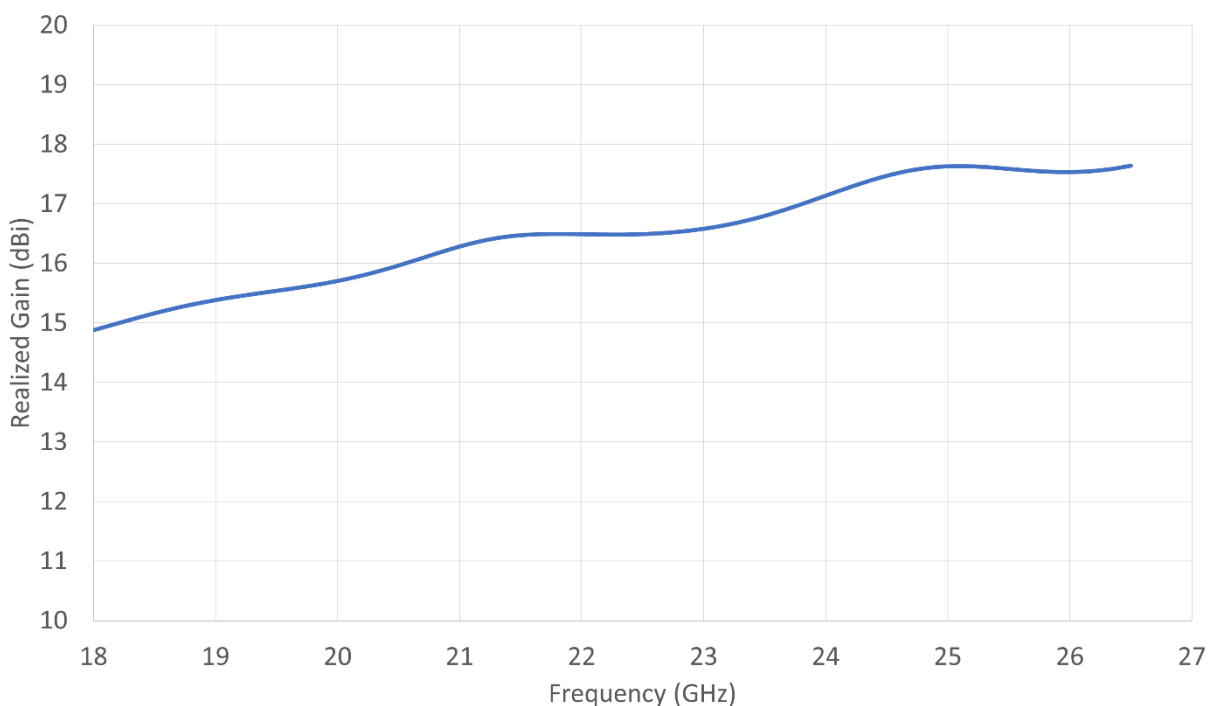
Pyramidal Horn Antenna

18 – 26.5 GHz

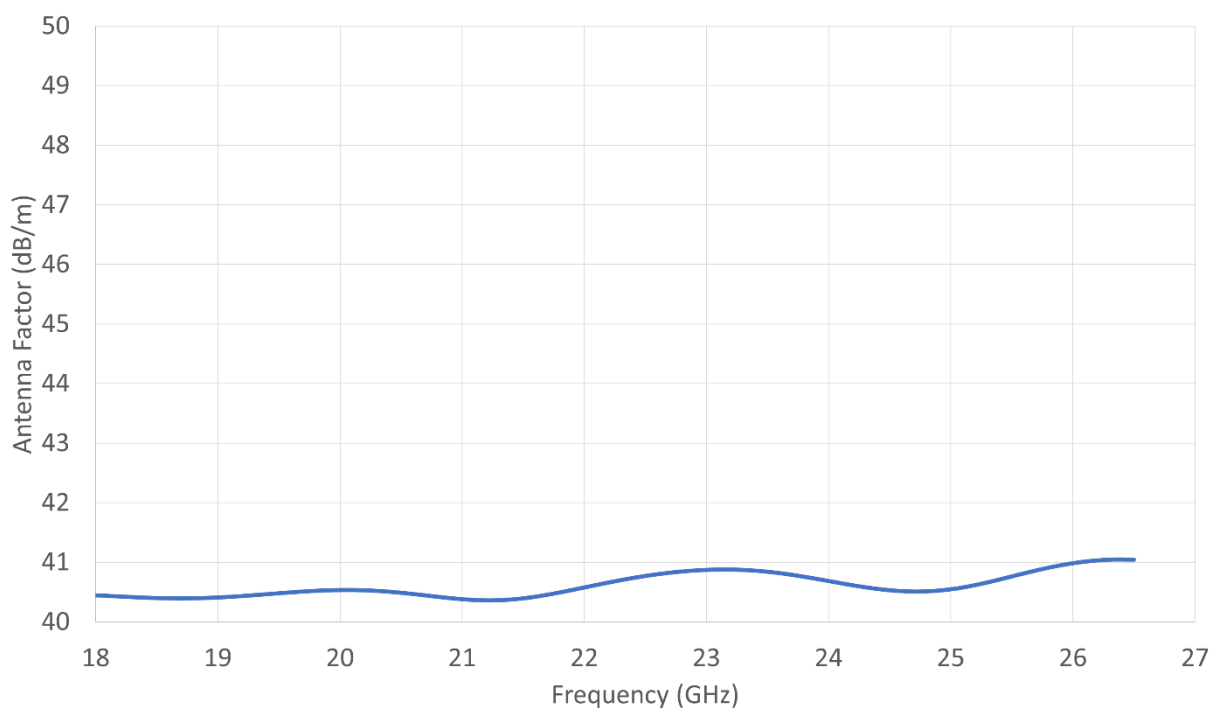
Reflexion coefficient



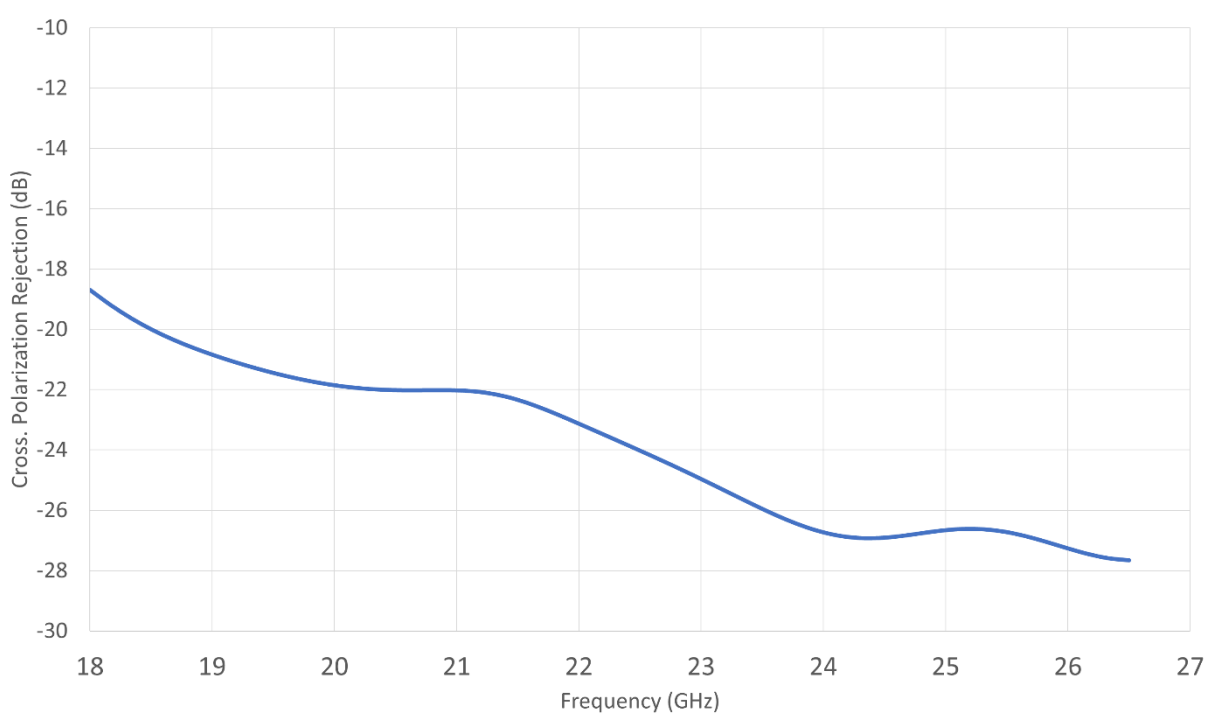
Gain



Antenna Factor

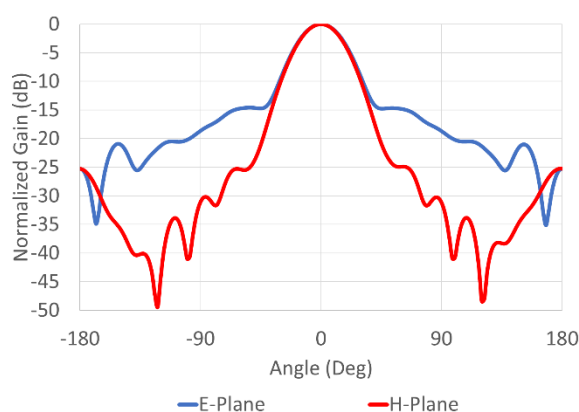


Cross. Pol. Rejection

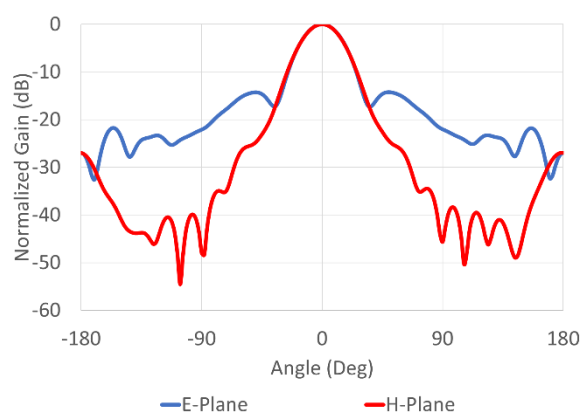


Radiation patterns

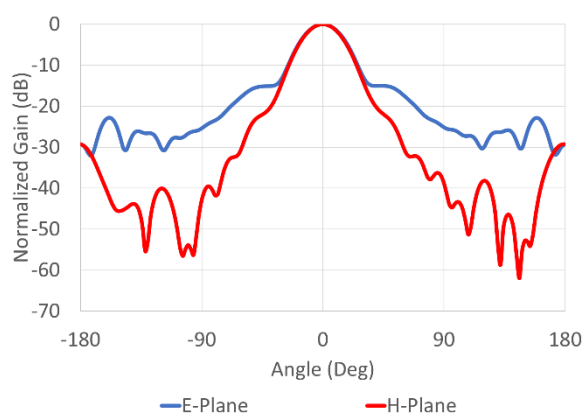
18 GHz



21 GHz



23.1 GHz



26.5 GHz

