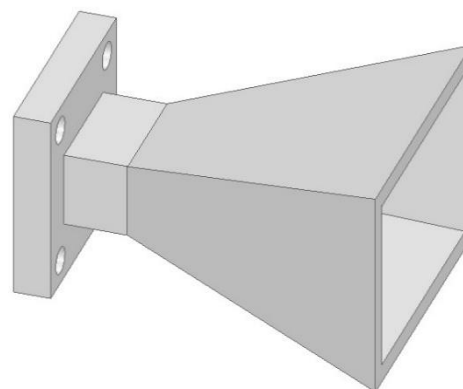


Electrical specifications

Frequency Range	22 – 33	[GHz]
VSWR (max.)	≤ 1.2	–
S_{11} (max.)	≤ -20	[dB]
Impedance	50	[Ω]
Connector	WR34	–
Power (CW)	10	[W]
Power (Impulse)	20	[W]
Gain	14.5	[dBi]
Polarization	Linear	–



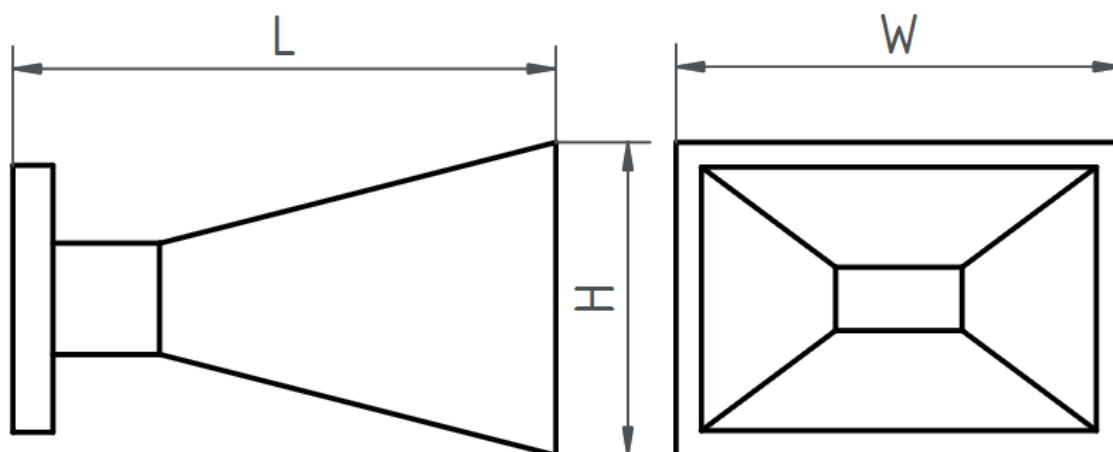
Physical specifications

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

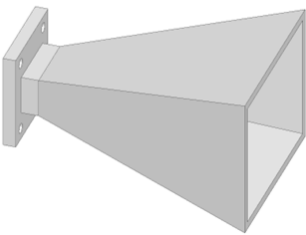
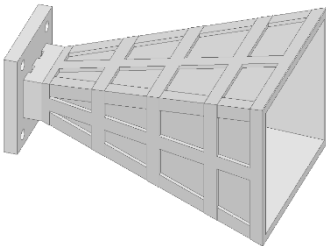
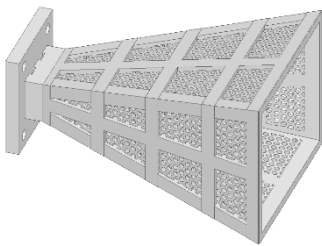




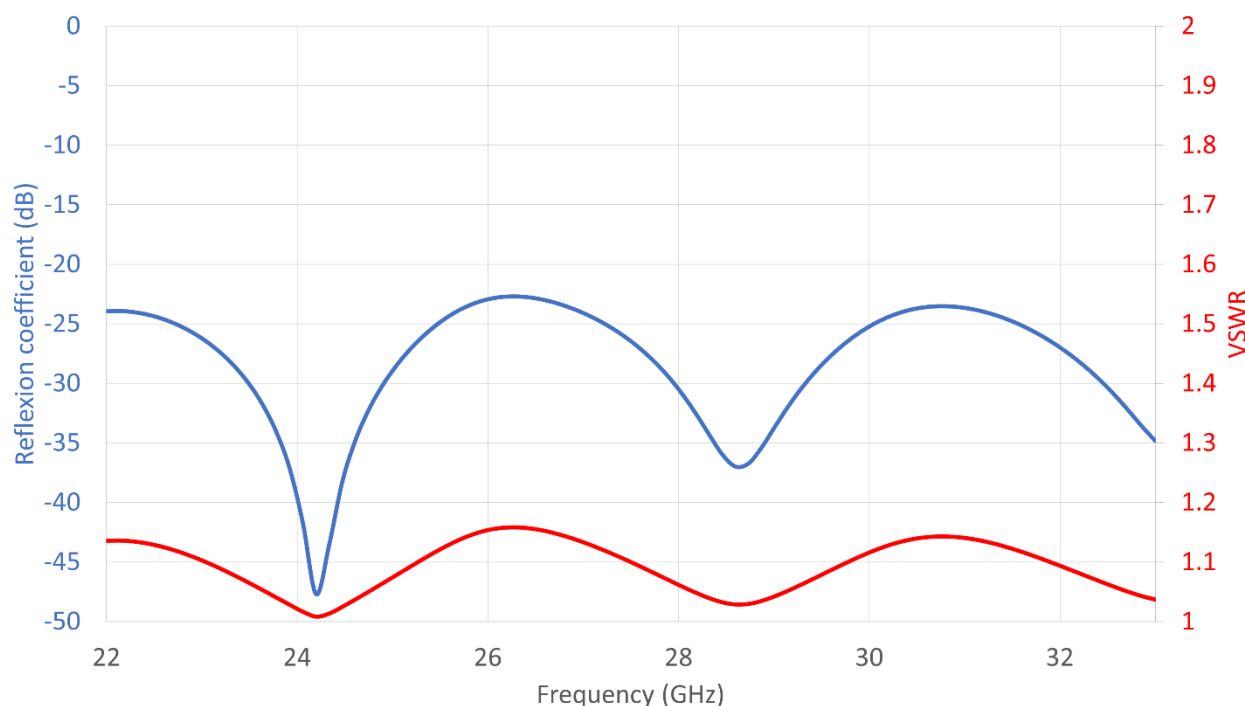
Pyramidal Horn Antenna

22 – 33 GHz

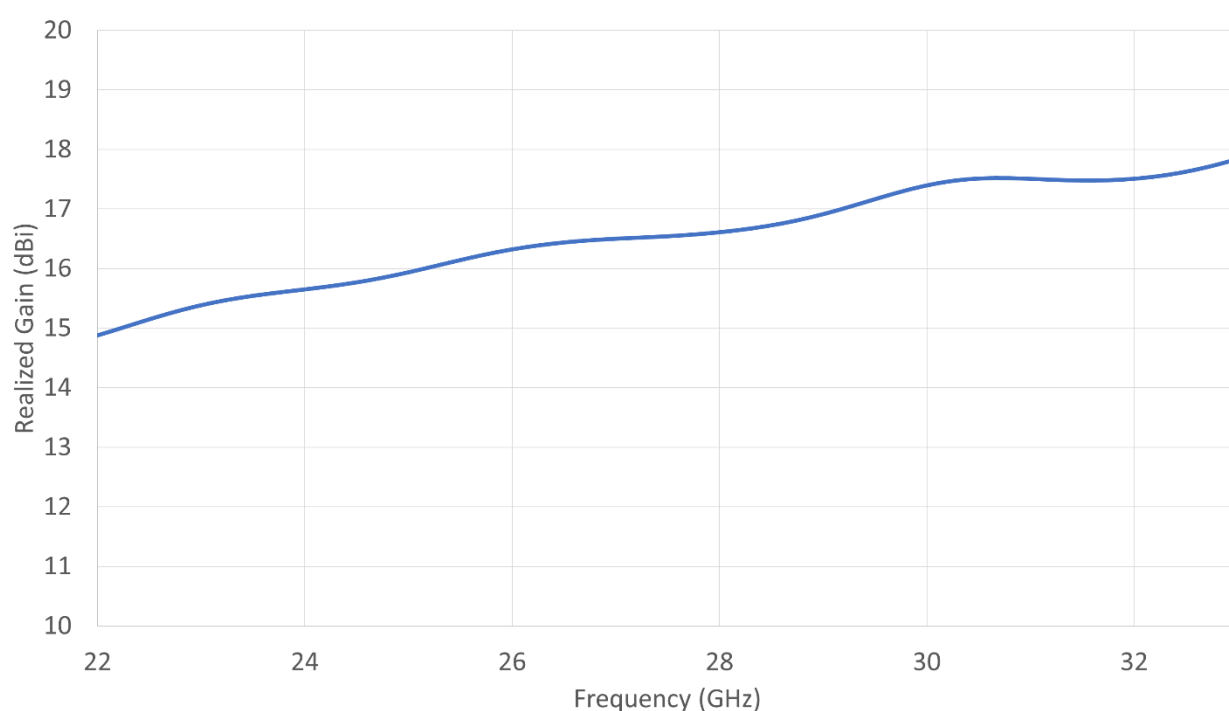
Design

	Standard (STD)	Light Weight (LW)	Ultra Light Weight (ULW)
			
W x L x H [mm ³]	31 x 41 x 23	31 x 41 x 23	31 x 41 x 23
Weight [g]	~11	~9	~8

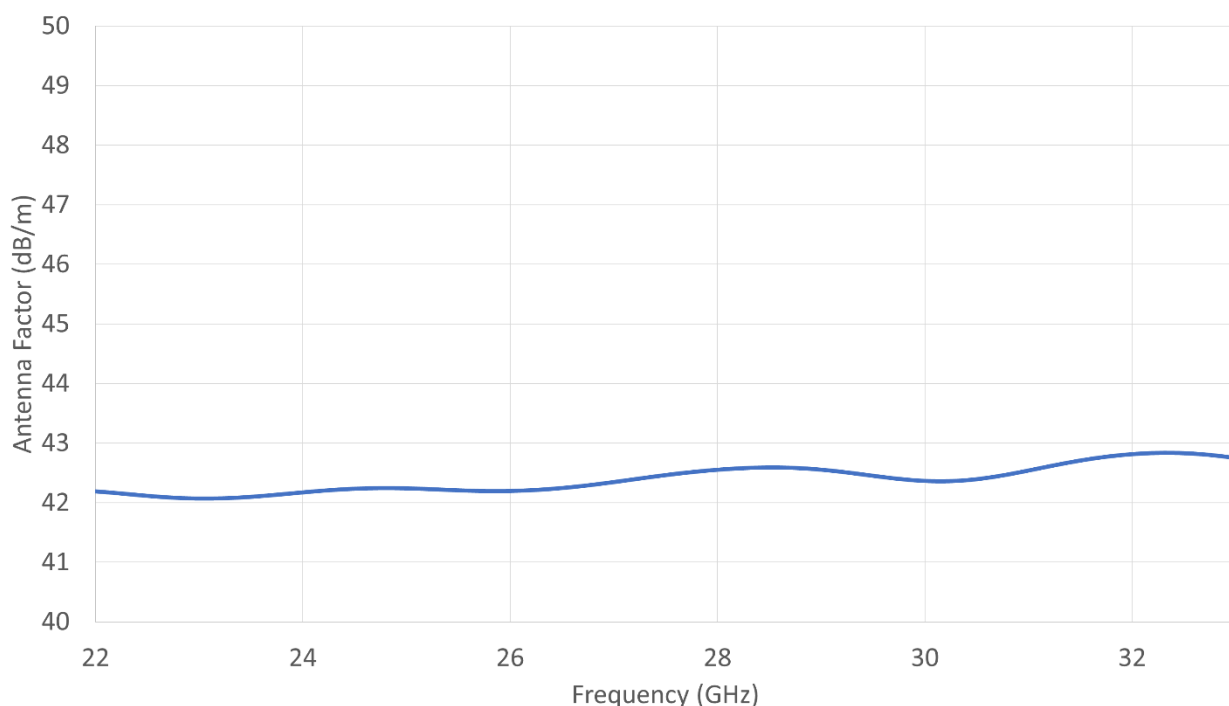
Reflexion coefficient



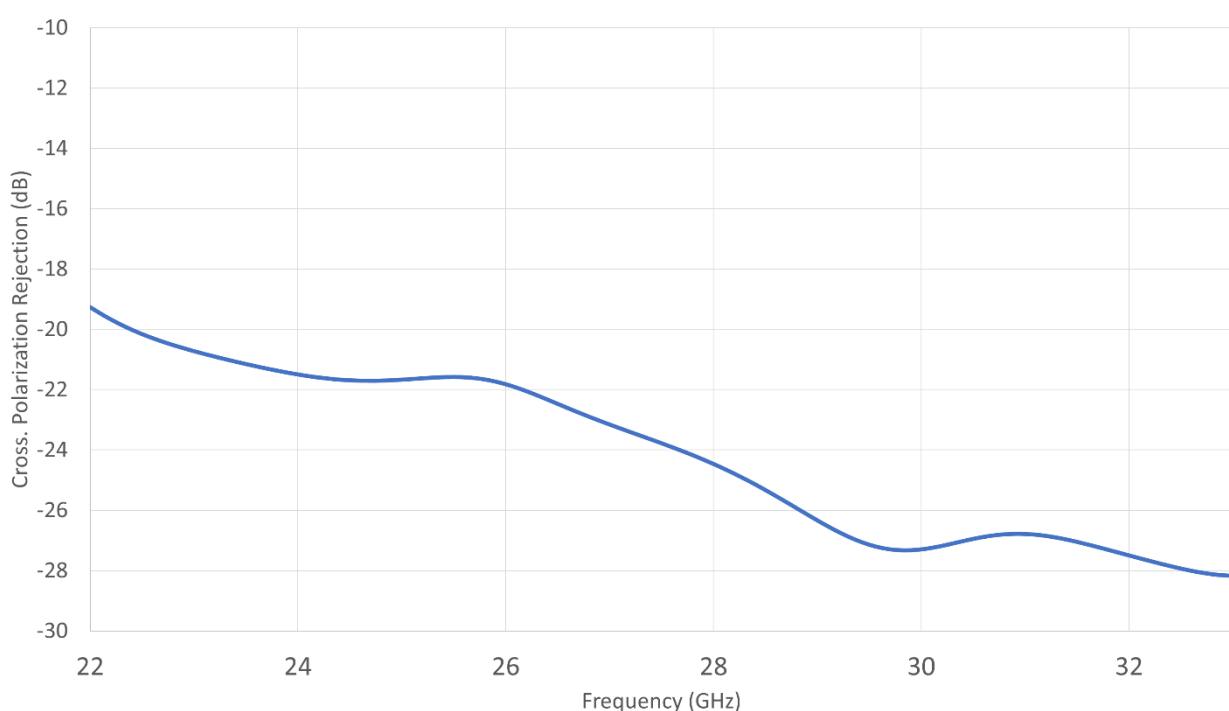
Gain



Antenna Factor

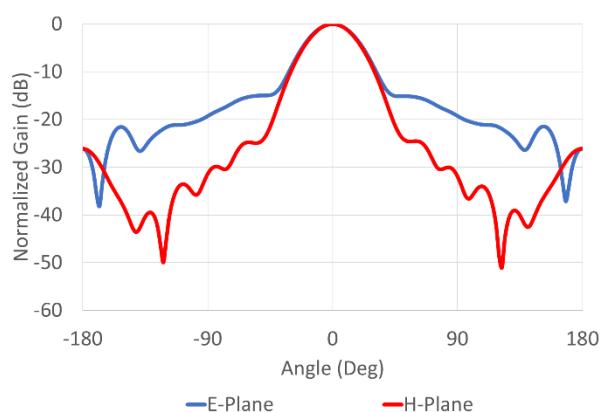


Cross. Pol. Rejection

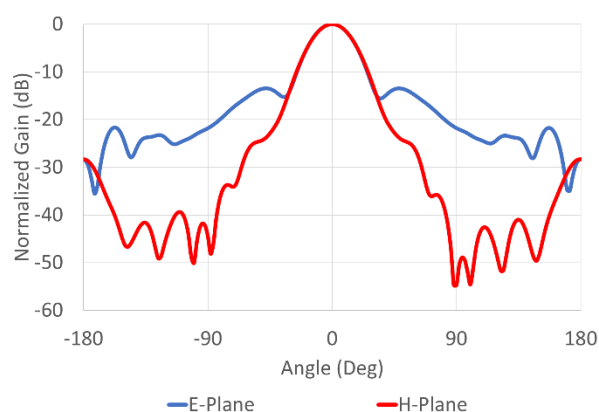


Radiation patterns

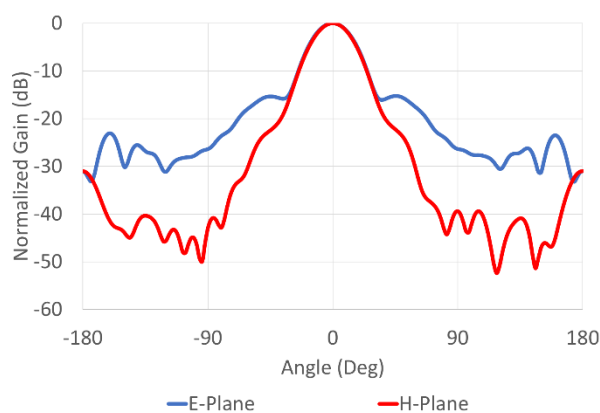
22 GHz



26 GHz



29 GHz



33 GHz

