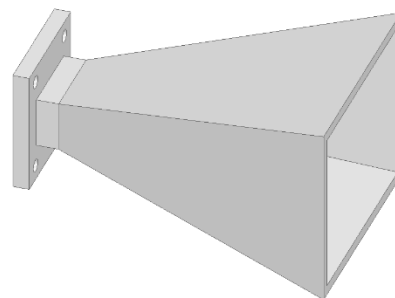


Electrical specifications

Frequency Range	12.4 – 18	[GHz]
VSWR (max.)	≤ 1.28	–
S_{11} (max.)	≤ -18	[dB]
Impedance	50	[Ω]
Connector	Flange	–
Power (CW)	10	[W]
Power (Impulse)	20	[W]
Gain (min.)	14.5	[dBi]
Polarization	Linear	–



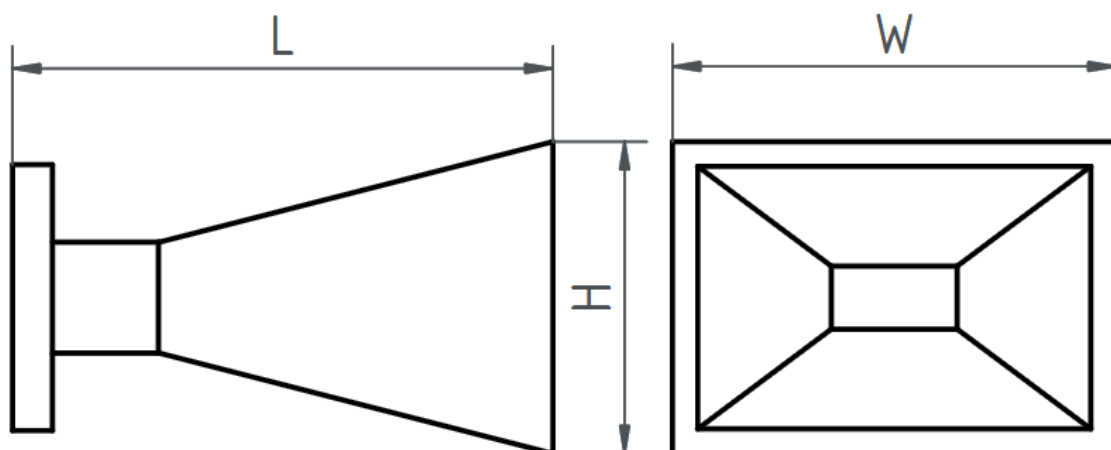
Physical specifications

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

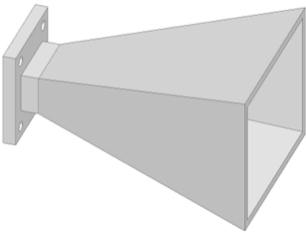
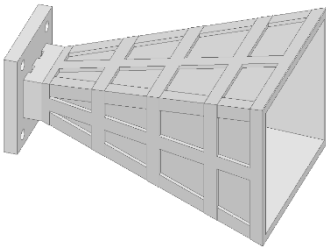
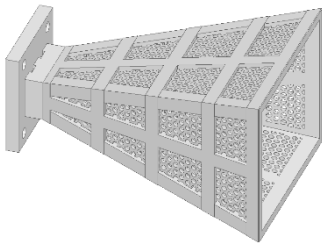




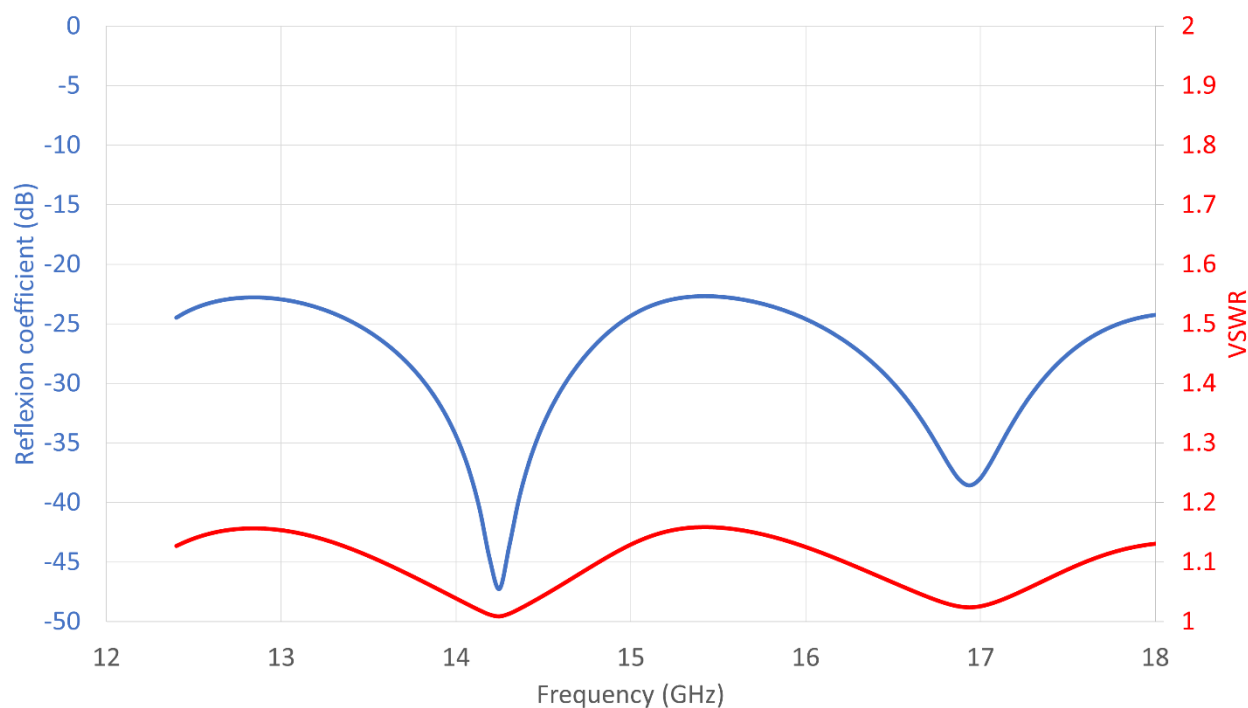
Pyramidal Horn Antenna

12.4 – 18 GHz

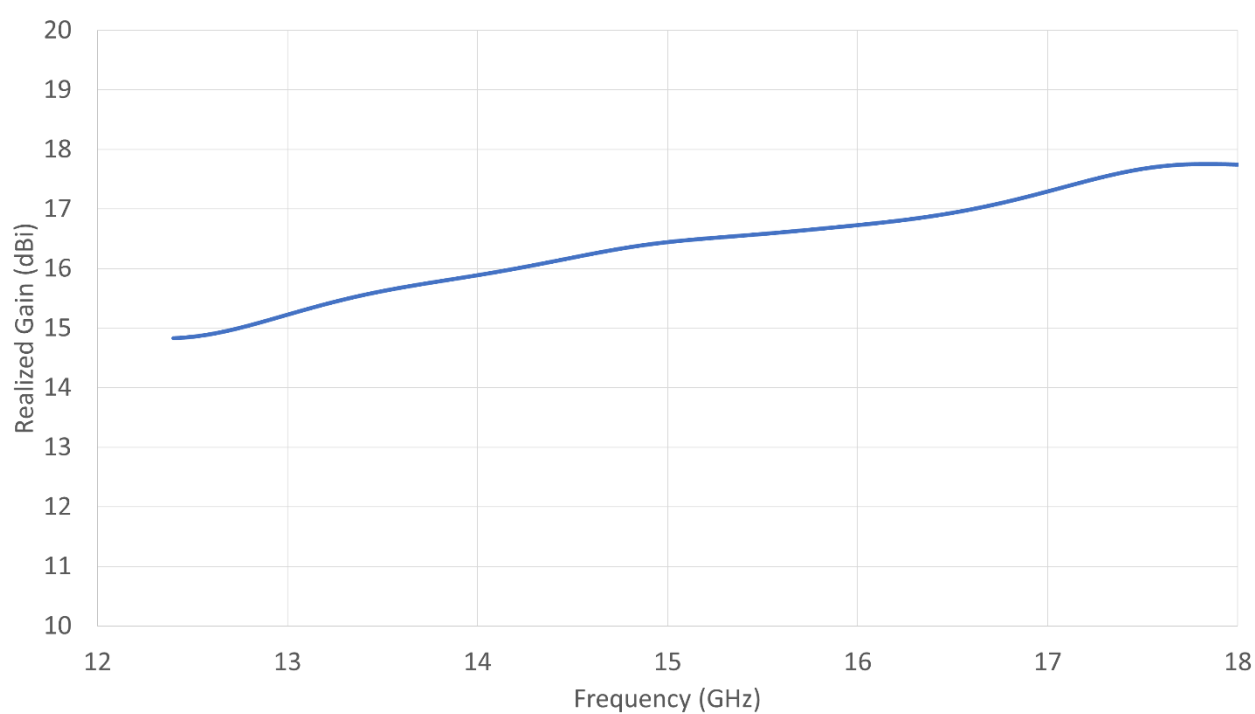
Design

	Standard (STD)	Light Weight (LW)	Ultra Light Weight (ULW)
			
W x L x H [mm ³]	56 x 68 x 40	56 x 68 x 40	56 x 68 x 40
Weight [g]	~43	~36	~32

Reflexion coefficient



Gain

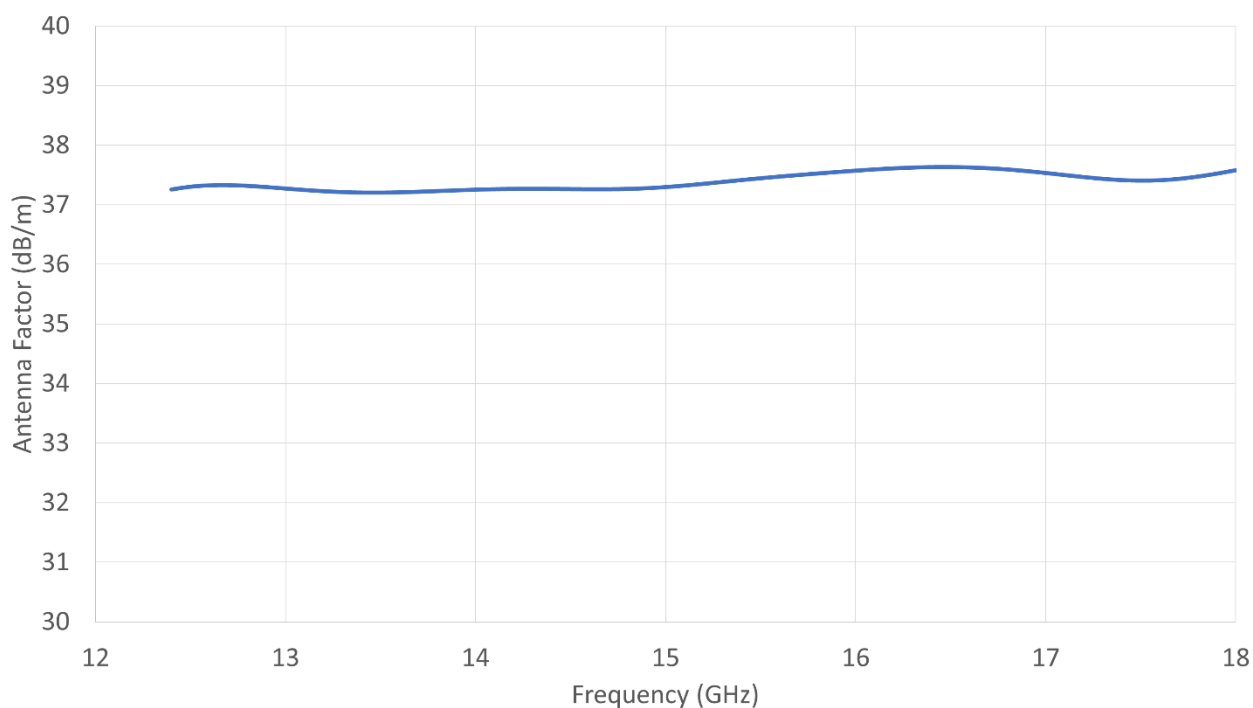




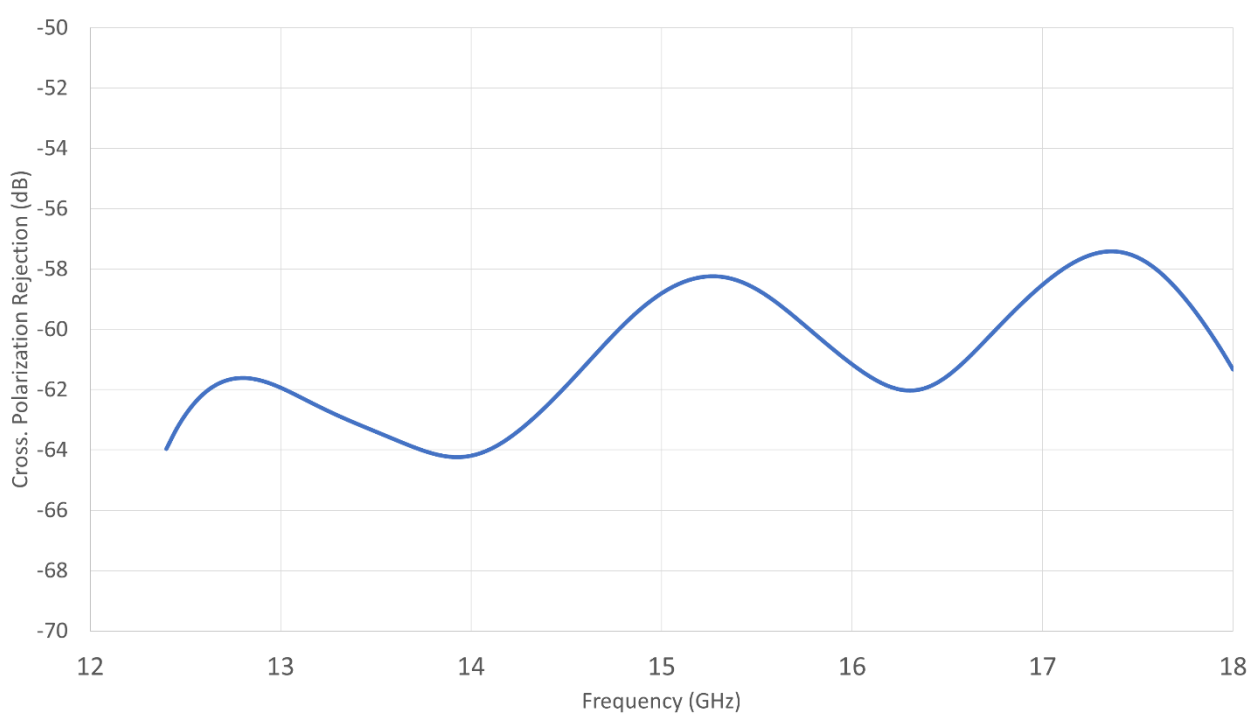
Pyramidal Horn Antenna

12.4 – 18 GHz

Antenna Factor

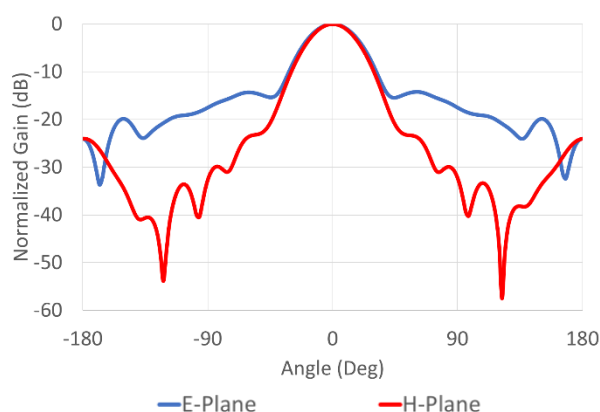


Cross. Pol. Rejection

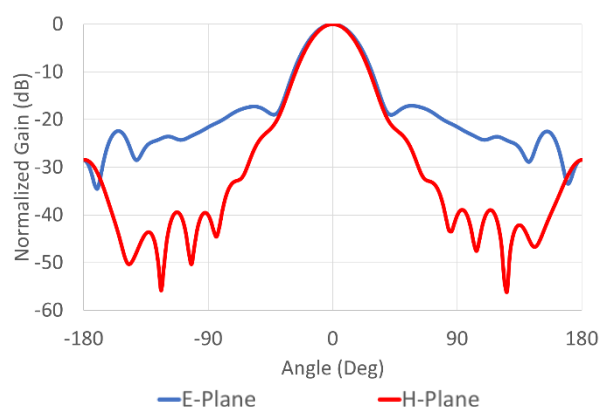


Radiation patterns

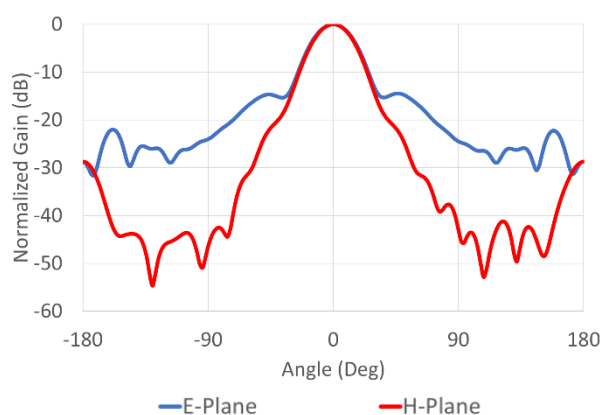
12.4 GHz



14 GHz



16 GHz



18 GHz

