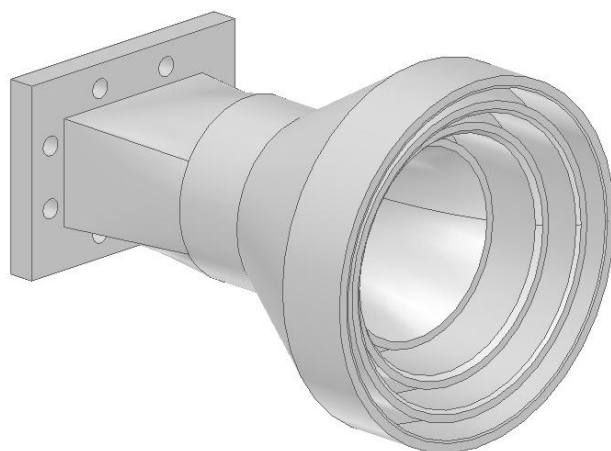


Electrical specifications

Frequency Range	5,85 – 8,2	[GHz]
VSWR (max.)	≤ 1.28	–
S_{11} (max.)	≤ -18	[dB]
Impedance	50	[Ω]
Connector	WR137	–
Power (CW)	10	[W]
Power (Impulse)	20	[W]
Gain typ.	13	[dBi]
Polarization	Linear	–



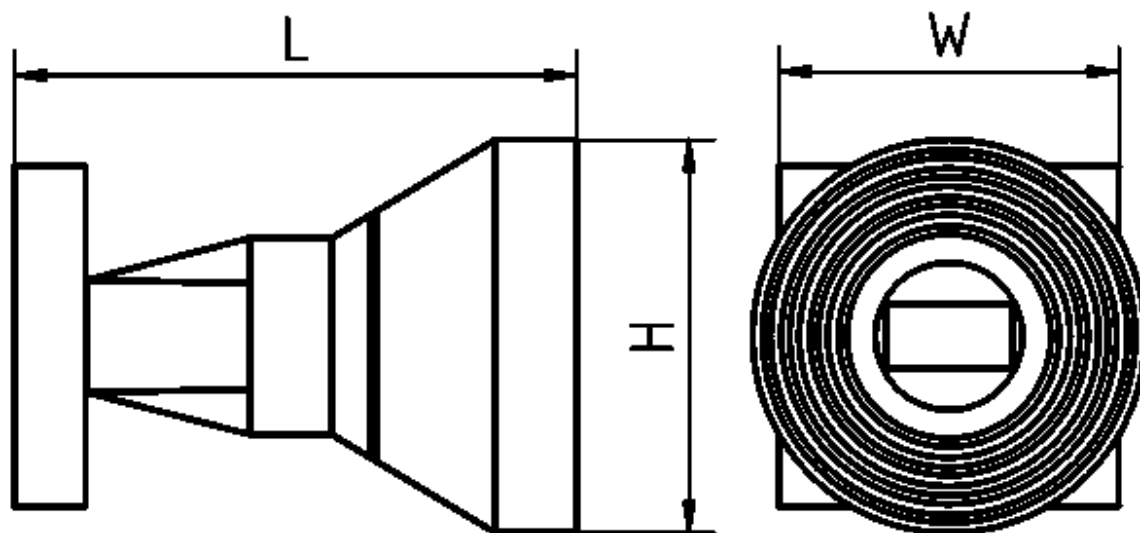
Physical specifications

W x L x H	93 * 123 * 93	[mm ³]
Weight	327	[g]

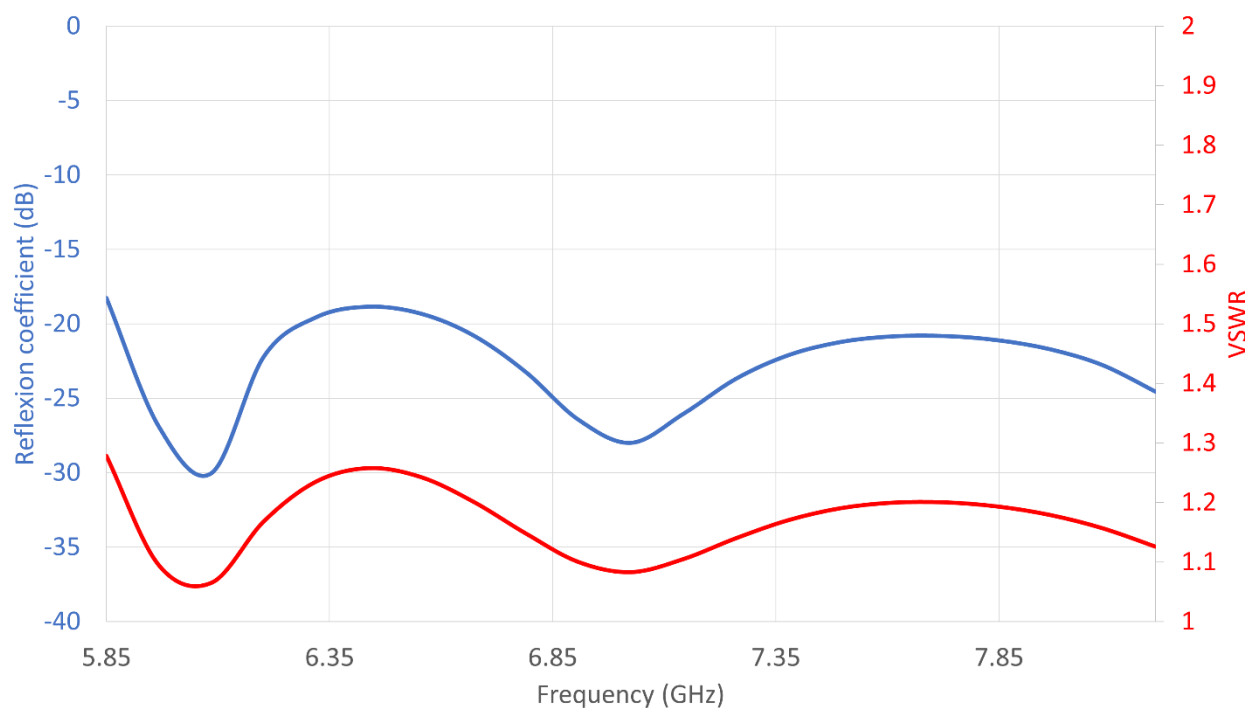
This antenna and its various versions are 3D-printed in plastic before undergoing a copper metallization process with a tin finish. They are also coated with a silicone layer.

All the following graphs are based on electromagnetic simulations

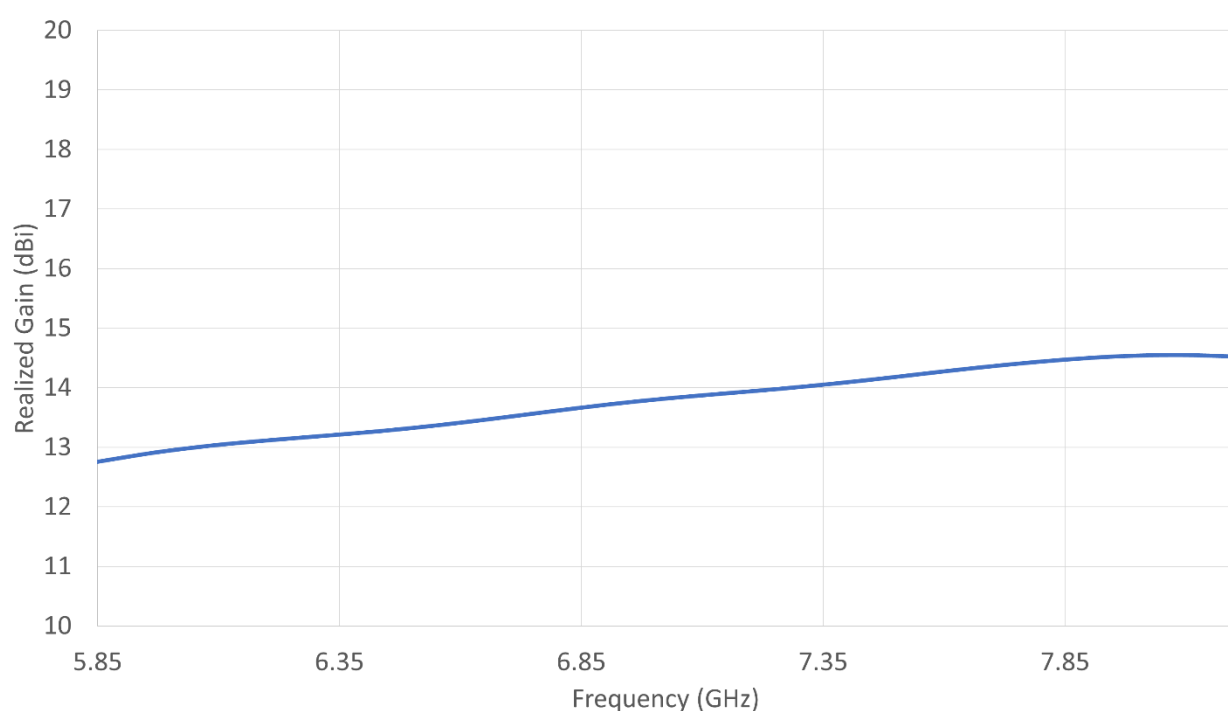
Technical Drawing



Reflexion coefficient



Gain

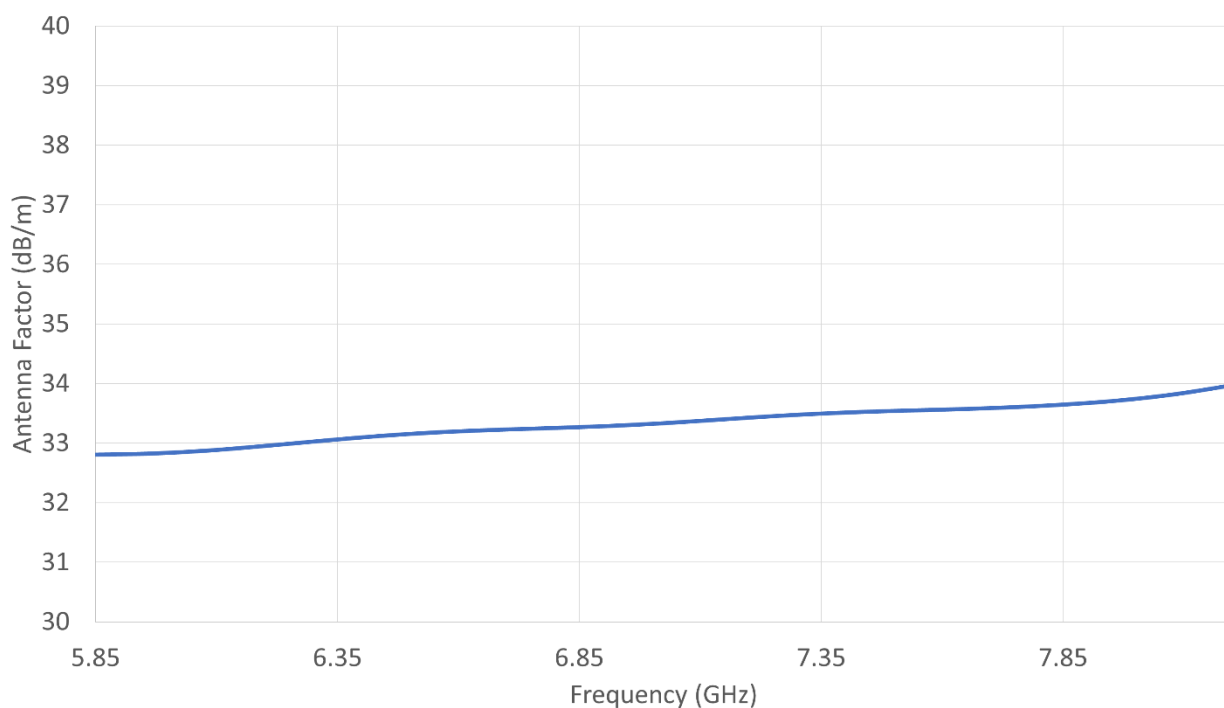




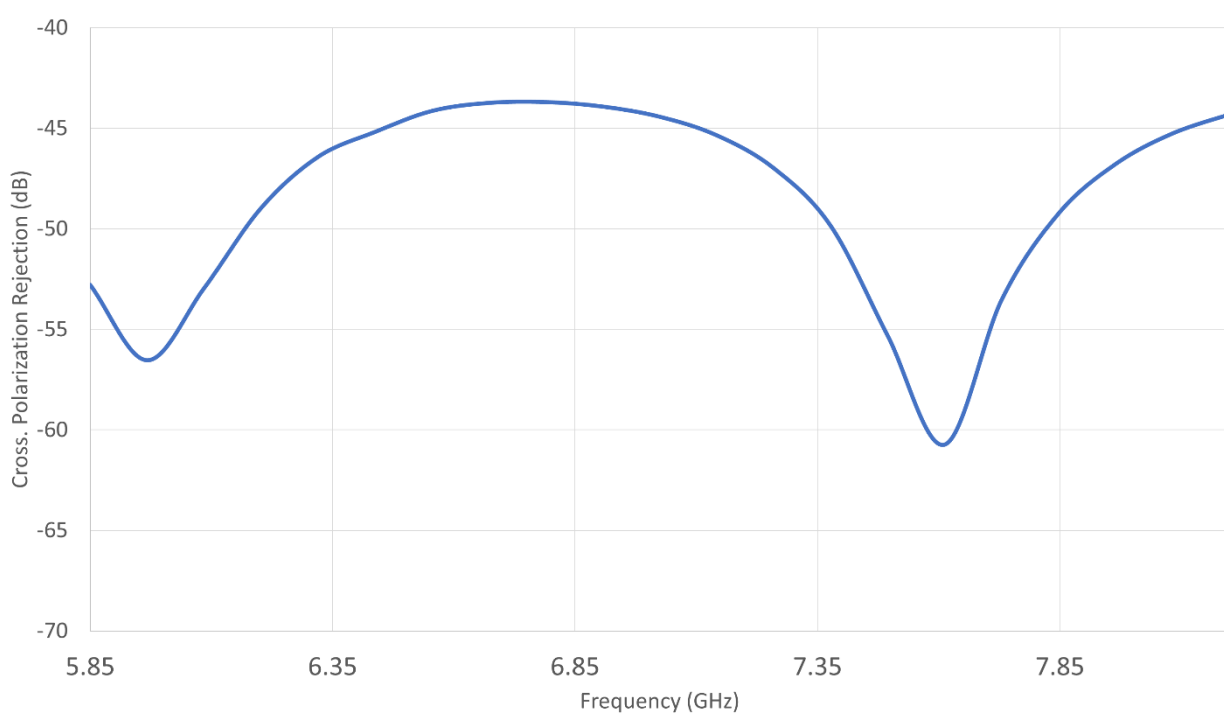
Corrugated Horn Antenna

5,85 – 8,2 GHz

Antenna Factor

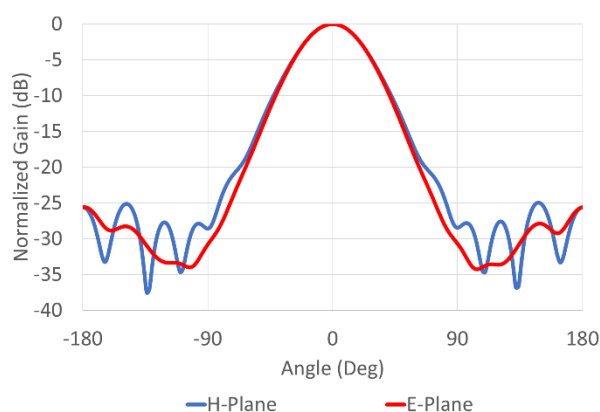


Cross. Pol. Rejection

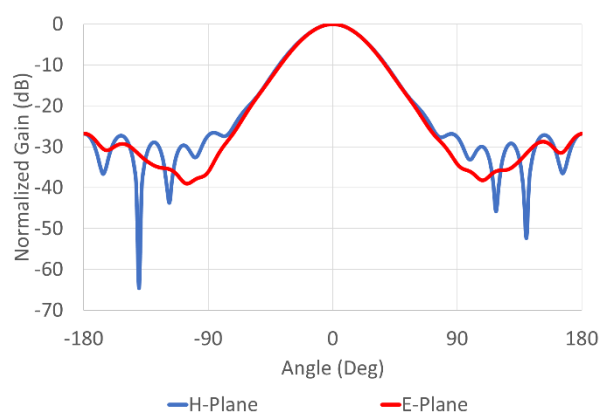


Radiation patterns

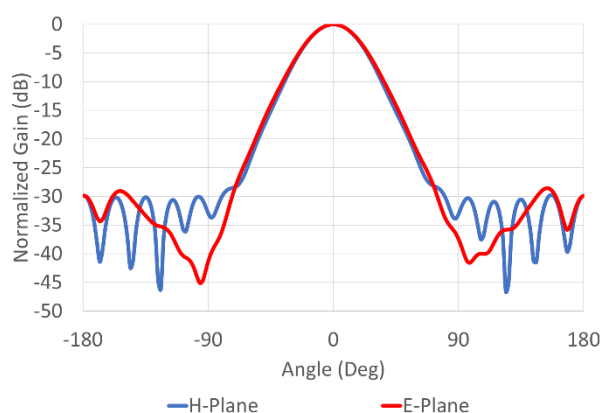
5,85 GHz



6,7 GHz



7,4 GHz



8,2 GHz

