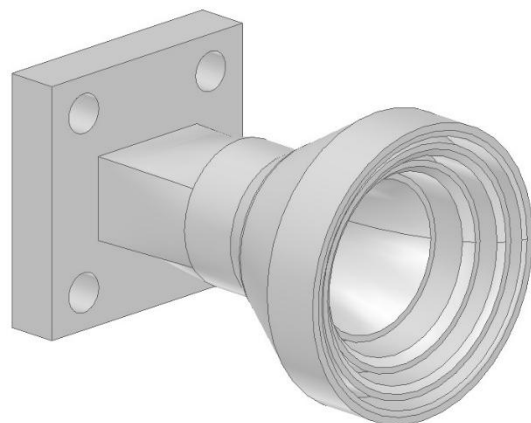


Electrical specifications

Frequency Range	26,5 – 40	[GHz]
VSWR (max.)	≤ 1.43	–
S_{11} (max.)	≤ -15	[dB]
Impedance	50	[Ω]
Connector	WR28	–
Power (CW)	10	[W]
Power (Impulse)	20	[W]
Gain typ.	13	[dBi]
Polarization	Linear	–



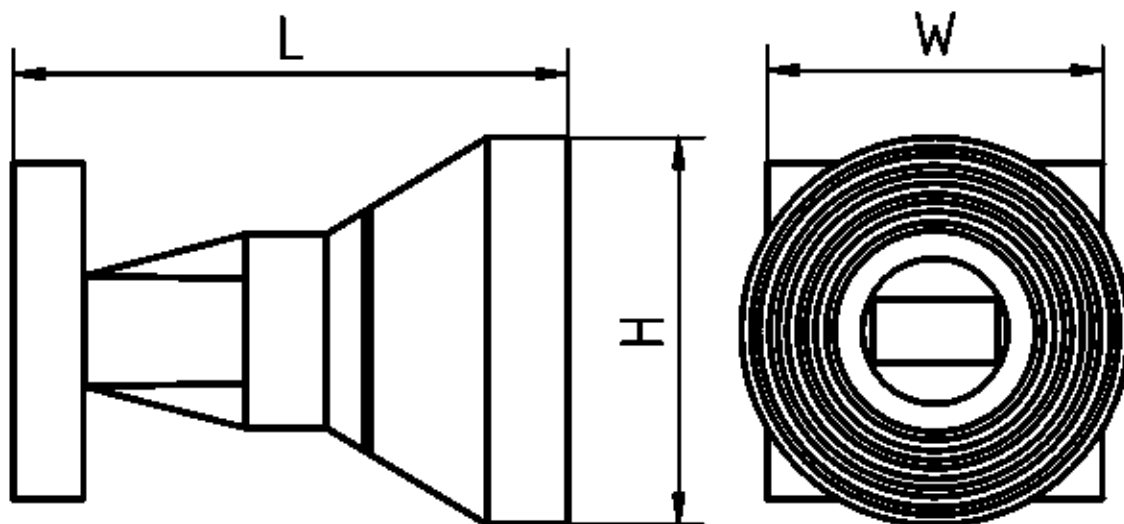
Physical specifications

W x L x H	22 * 32 * 22	[mm ³]
Weight	7	[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

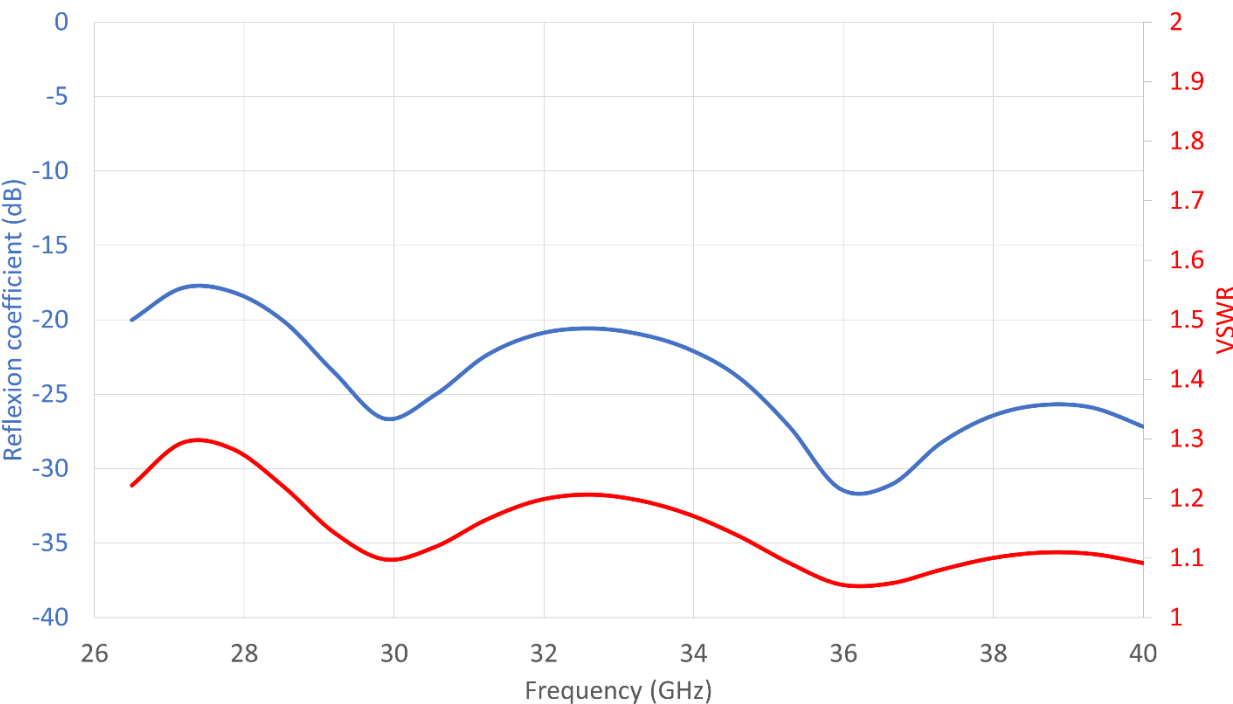




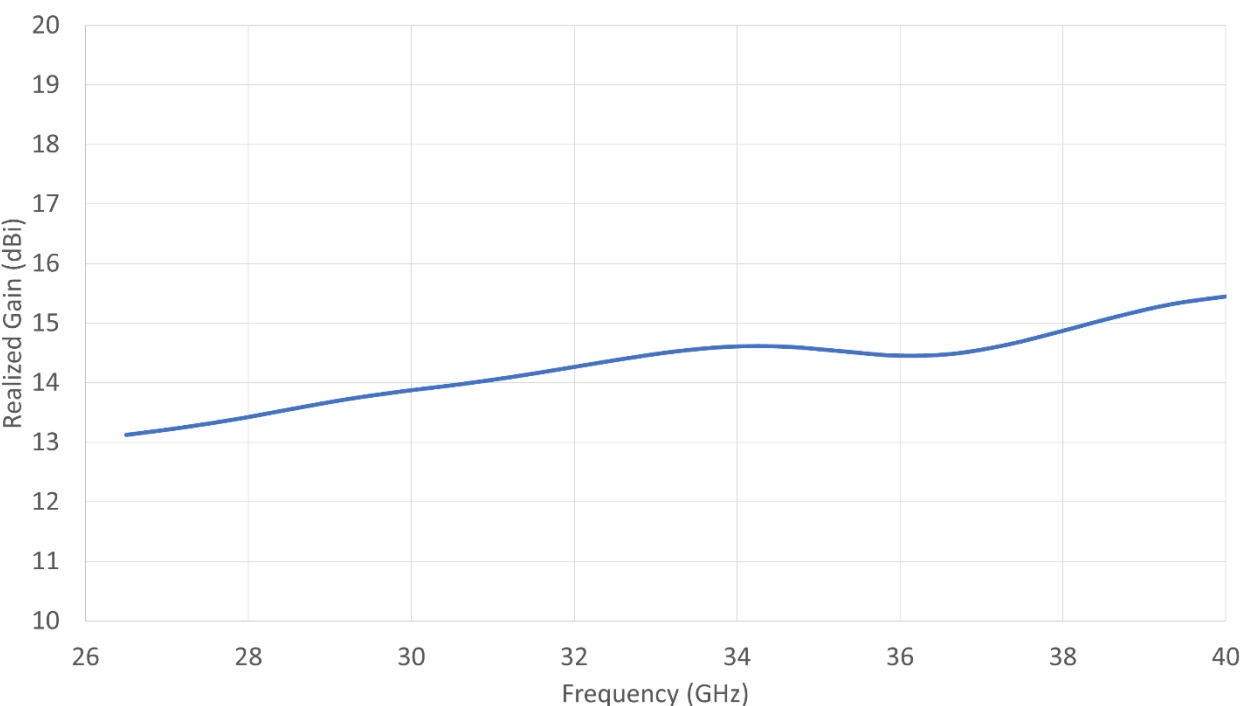
Corrugated Horn Antenna

26.5 – 40 GHz

Reflexion coefficient



Gain

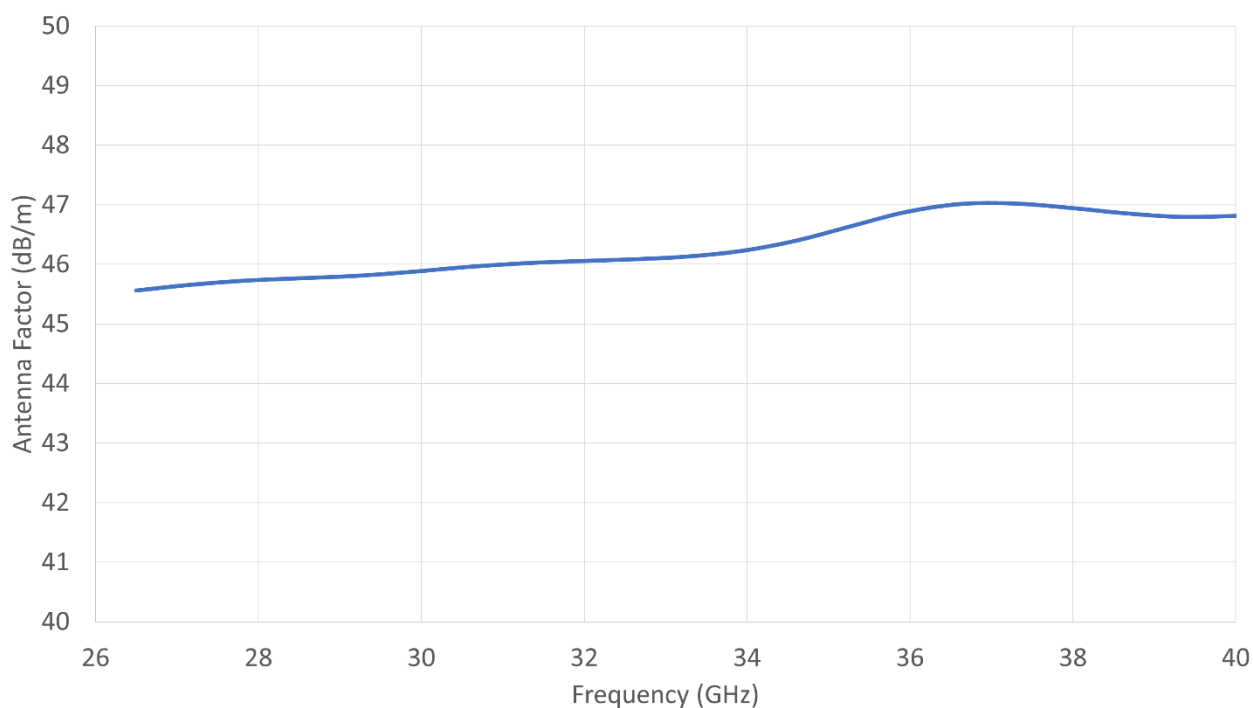




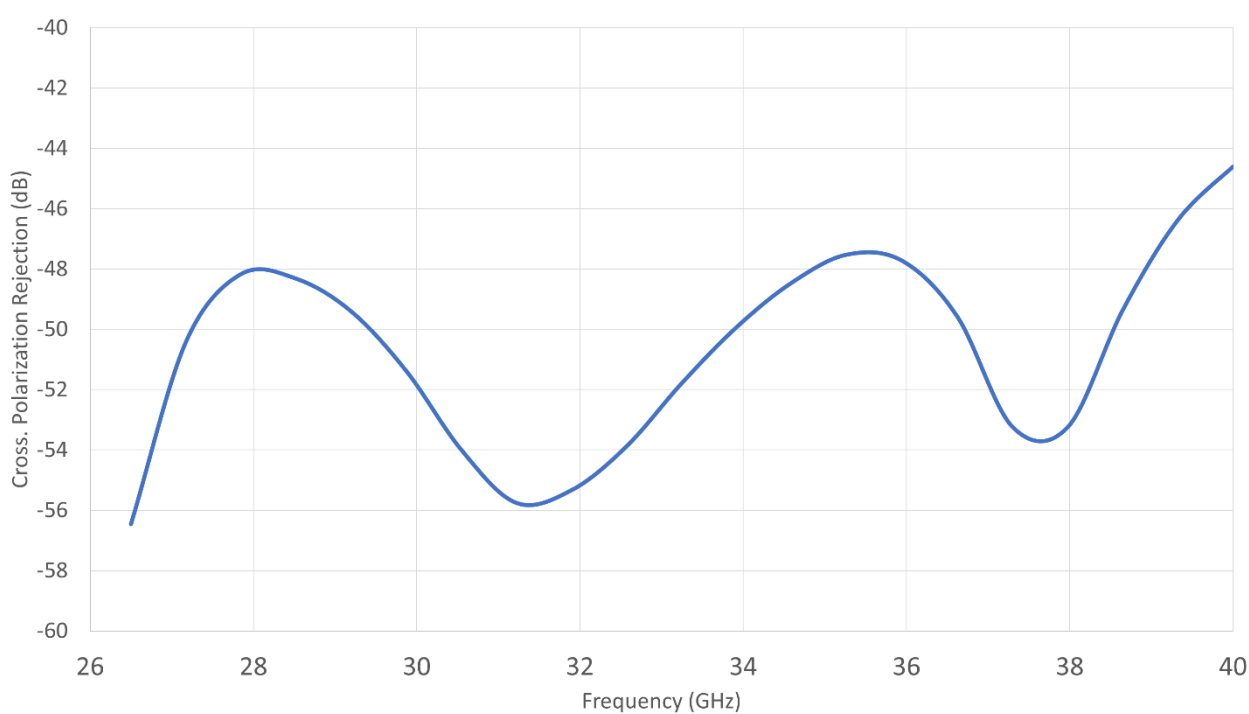
Corrugated Horn Antenna

26.5 – 40 GHz

Antenna Factor

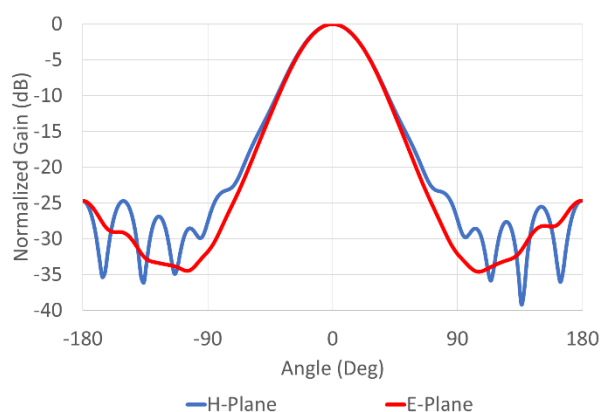


Cross. Pol. Rejection

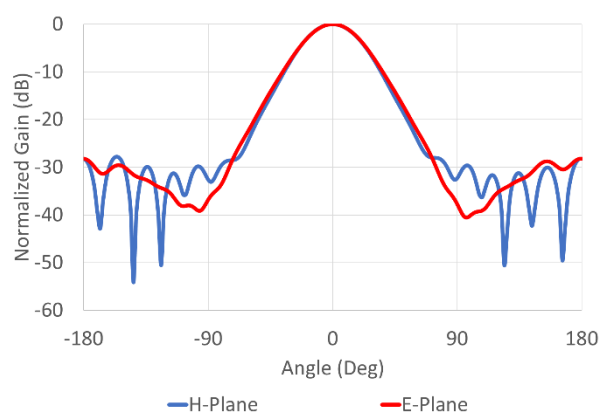


Radiation patterns

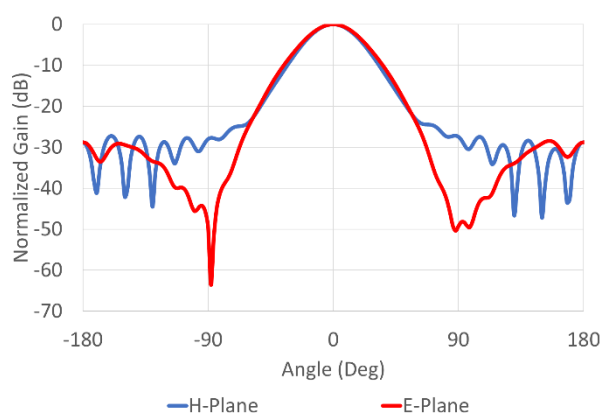
26.5 GHz



31.1 GHz



24.6 GHz



40 GHz

