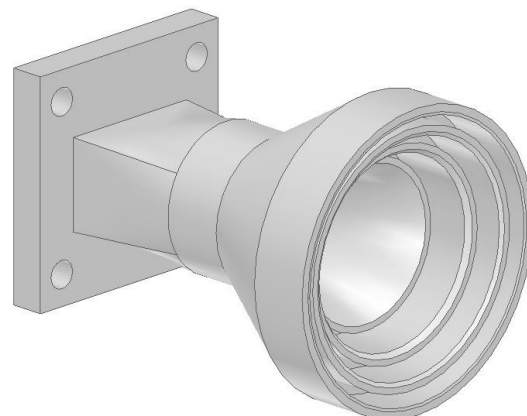


Electrical specifications

Frequency Range	12,4 – 18	[GHz]
VSWR (max.)	≤ 1.43	–
S_{11} (max.)	≤ -15	[dB]
Impedance	50	[Ω]
Connector	WR62	–
Power (CW)	10	[W]
Power (Impulse)	20	[W]
Gain typ.	12.5	[dBi]
Polarization	Linear	–



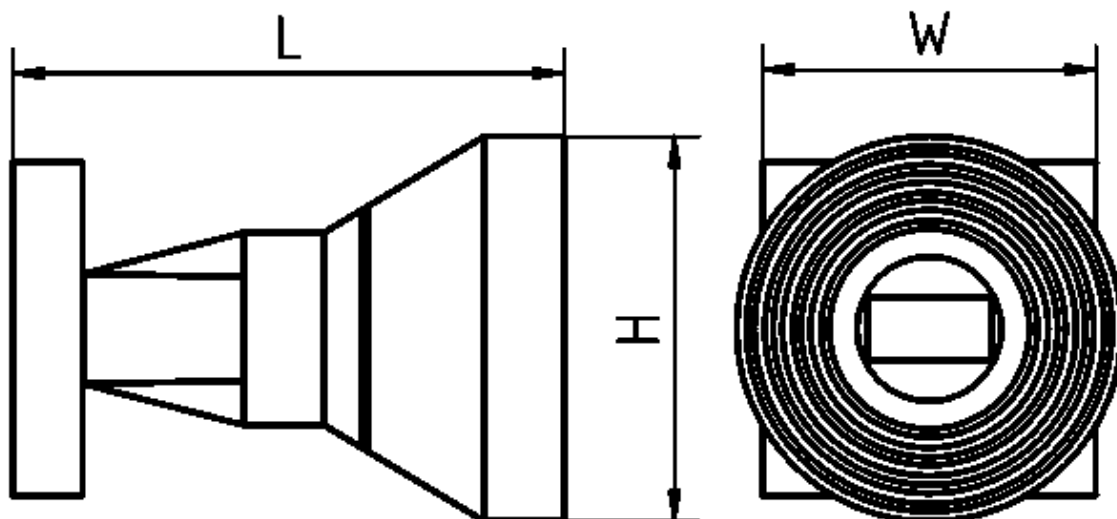
Physical specifications

W x L x H	43,2 * 59 * 43,2	[mm ³]
Weight	38	[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

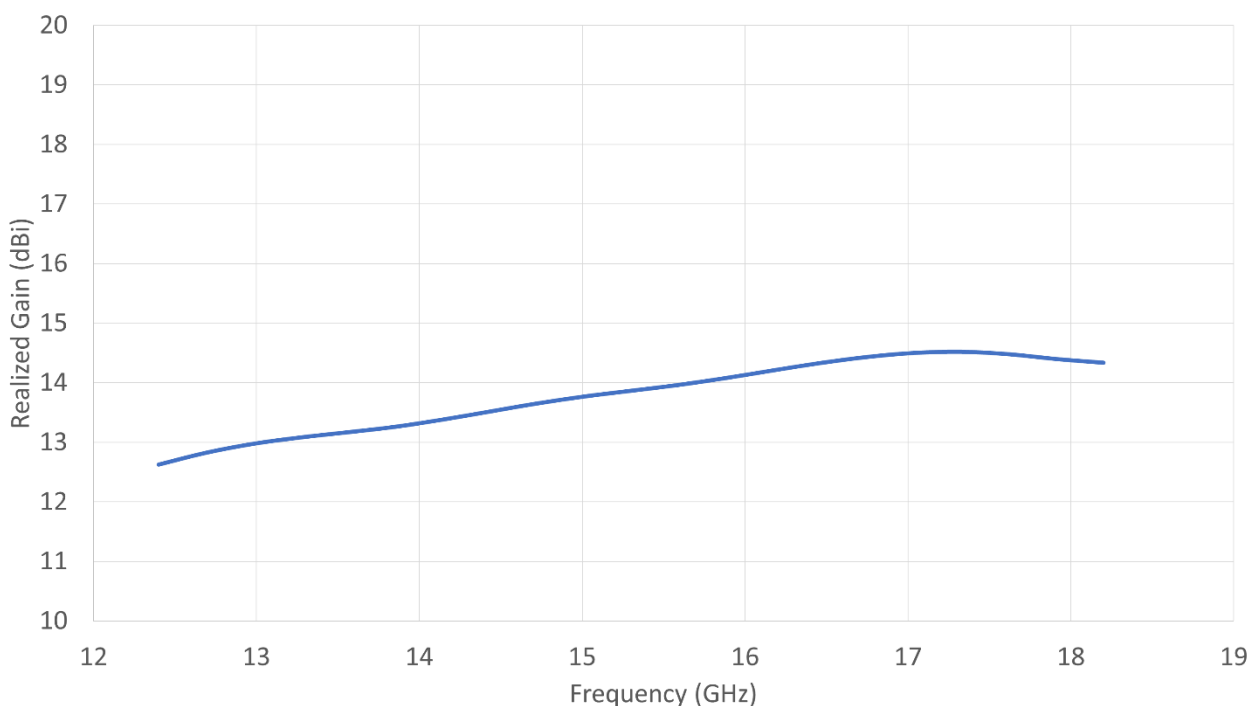
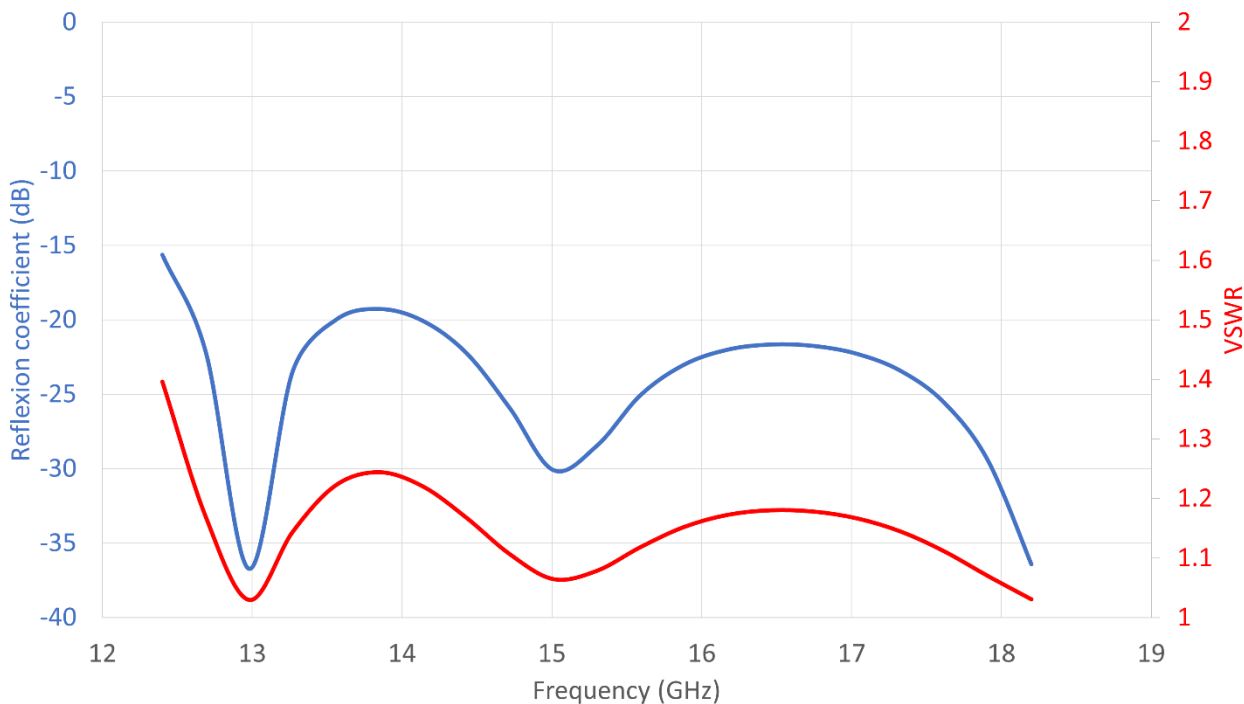
Technical Drawing





Corrugated Horn Antenna 12.4 – 18 GHz

Reflexion coefficient

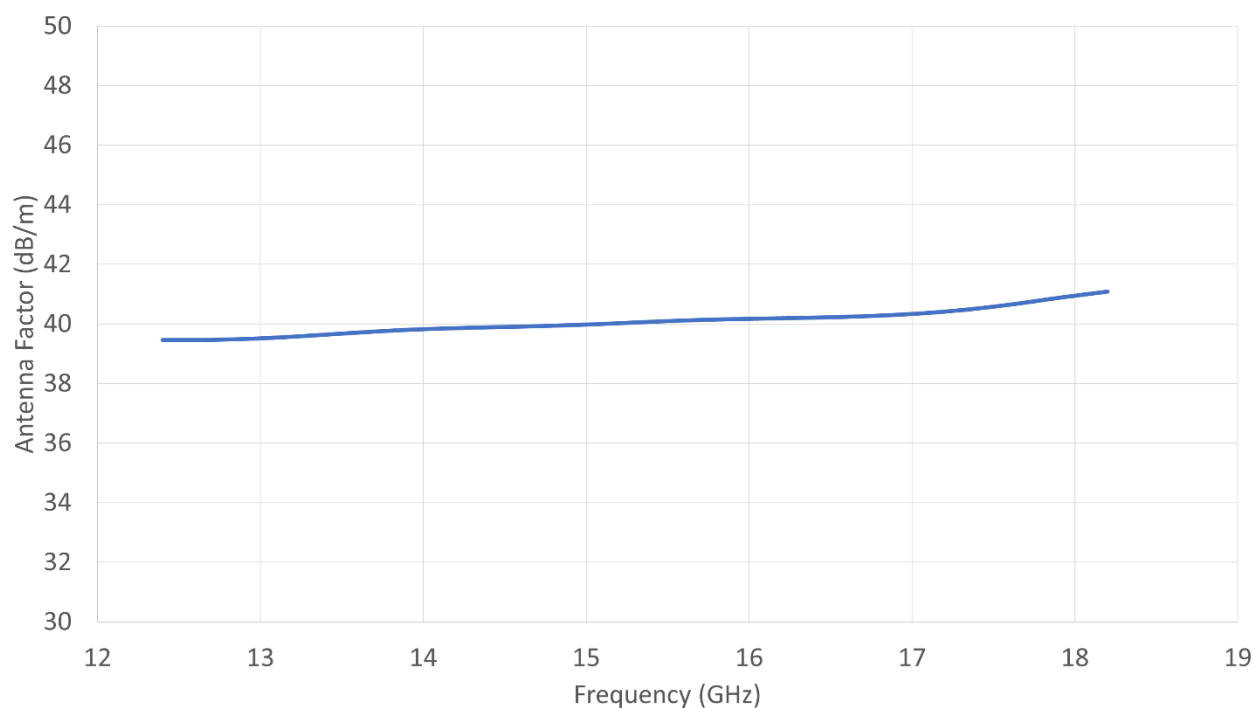




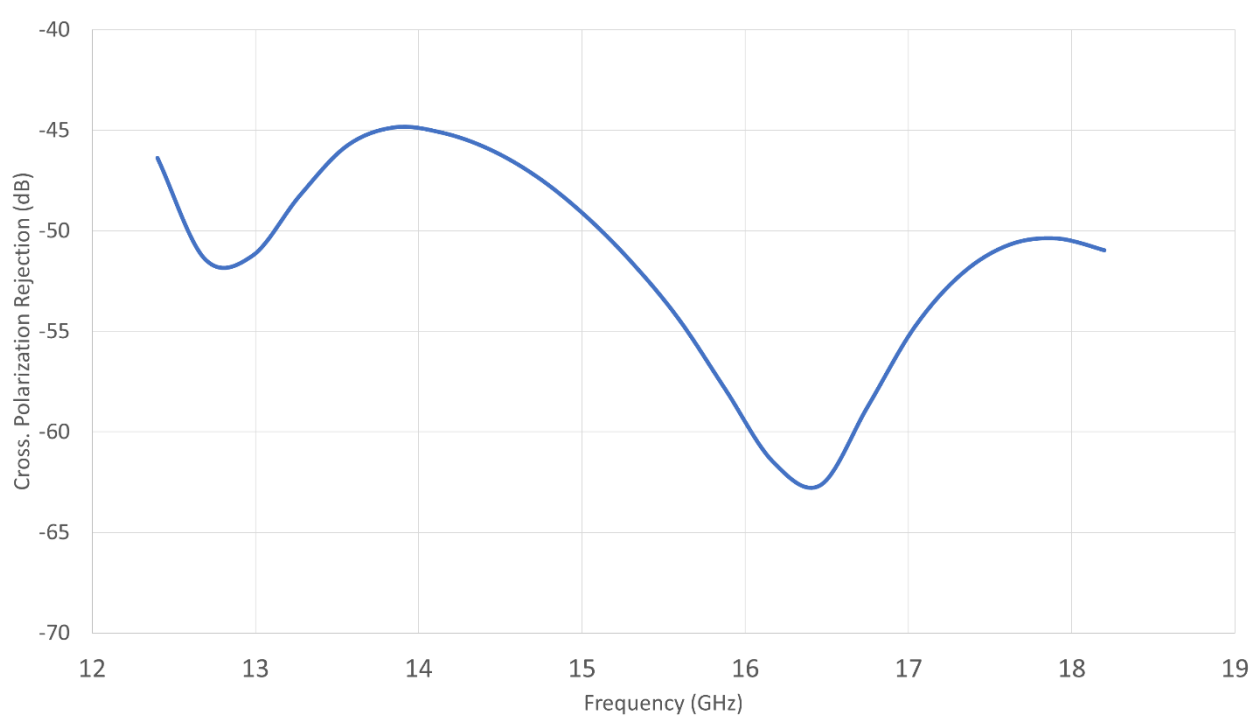
Corrugated Horn Antenna

12.4 – 18 GHz

Antenna Factor



Cross. Pol. Rejection

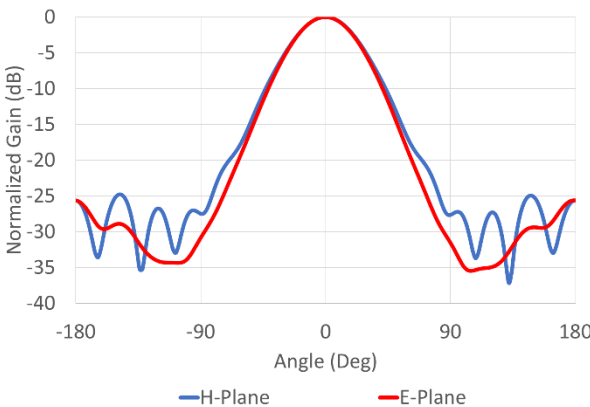




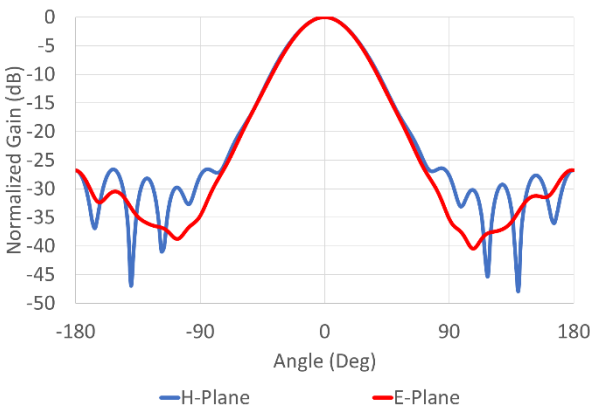
Corrugated Horn Antenna 12.4 – 18 GHz

Radiation patterns

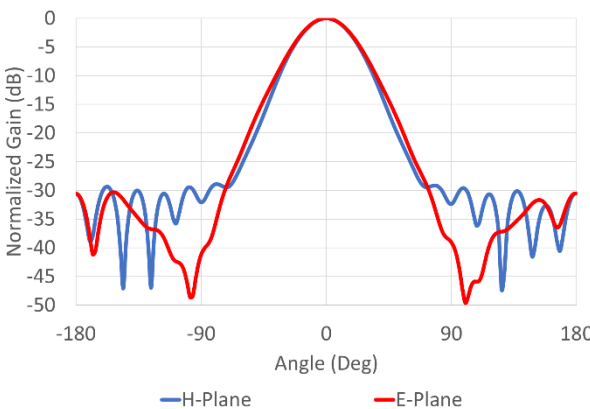
12.4 GHz



14.1 GHz



16.2 GHz



18.2 GHz

