



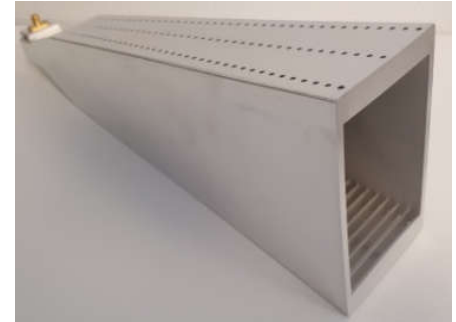
Corrugated Antenna 8.2-12.4 GHz 18 dB Gain

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ELL-A3D-SP-08201240-01

Description

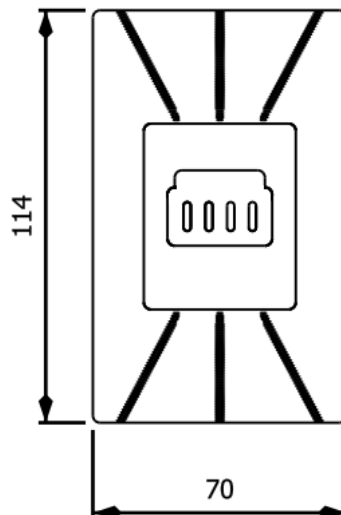
This Corrugated Horn antenna operates for a frequency from 8.2 GHz to 12.4 GHz. It offers a typical value of 18 dB gain. Particularities of this antenna are to offer low side lobes and its lightness. Indeed, this antenna is lighter than a machining one due to the realization by a 3D printer.



Technical specifications

Frequency (GHz)	8.2-12.4
Simulated Gain (dB)	18 Typ.
VSWR max	1.70
Connector	2.92 mm-F
Waveguide	WR90
Size (mm)	70*114*310
Weight	509 g

Dimensional Drawing

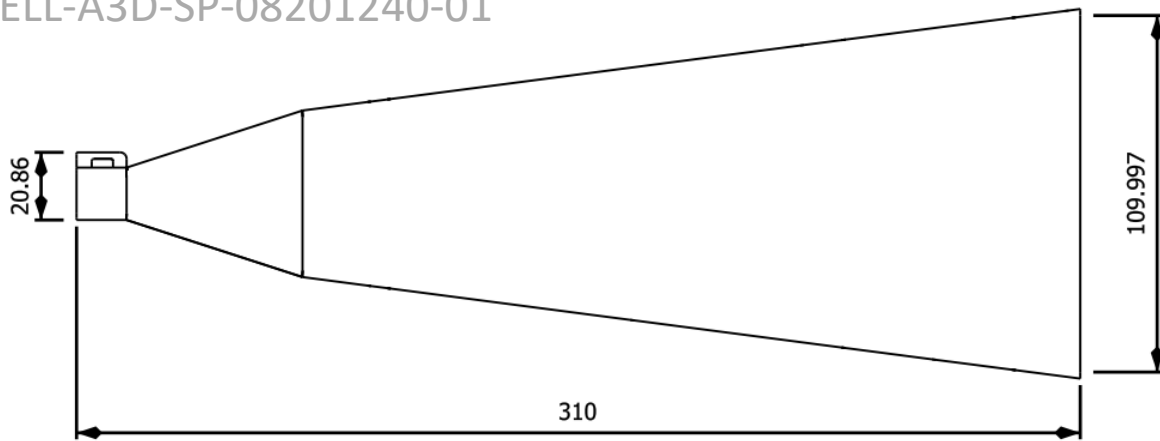




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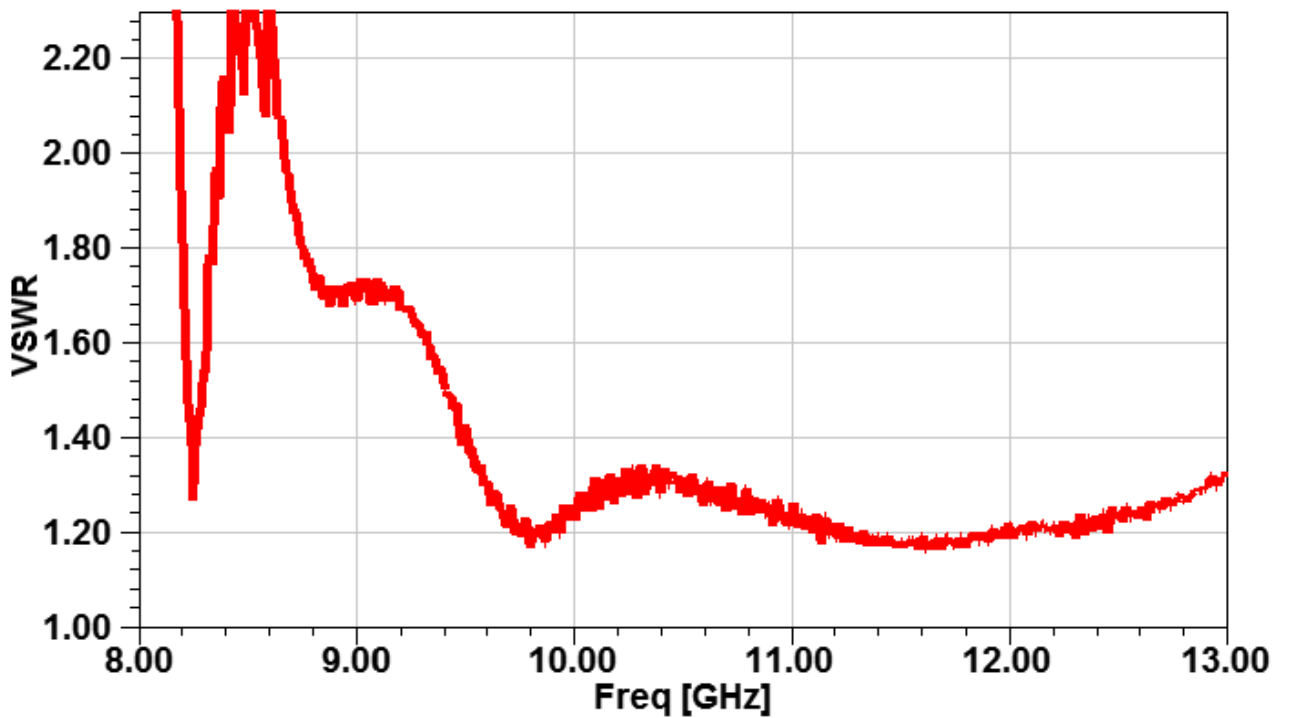
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Simulation results

1. VSWR



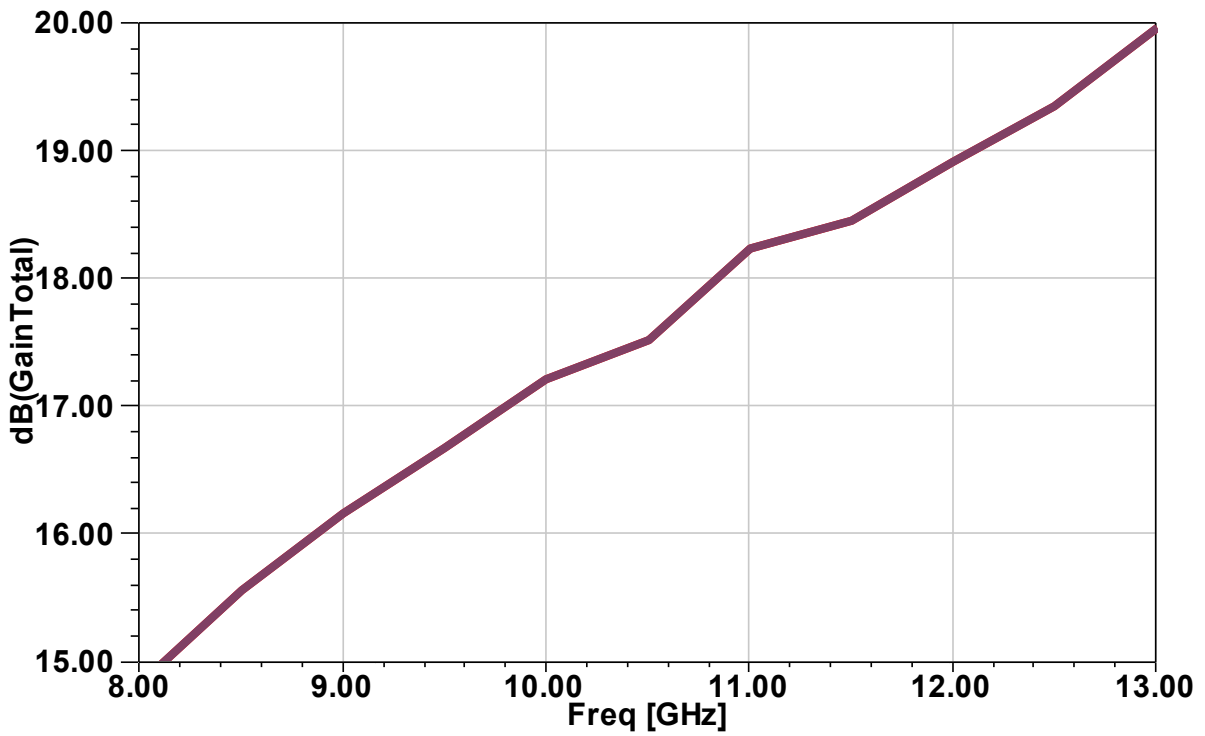


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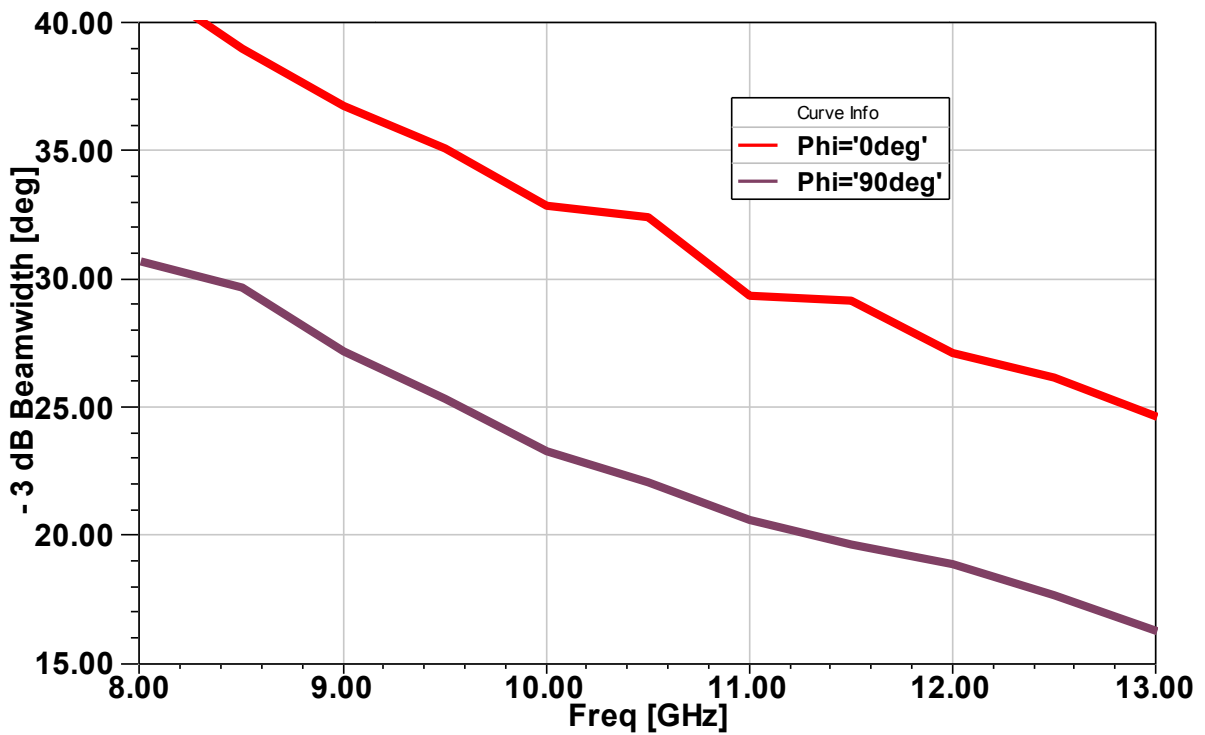
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2. Gain

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3. -3 dB Beamwidth

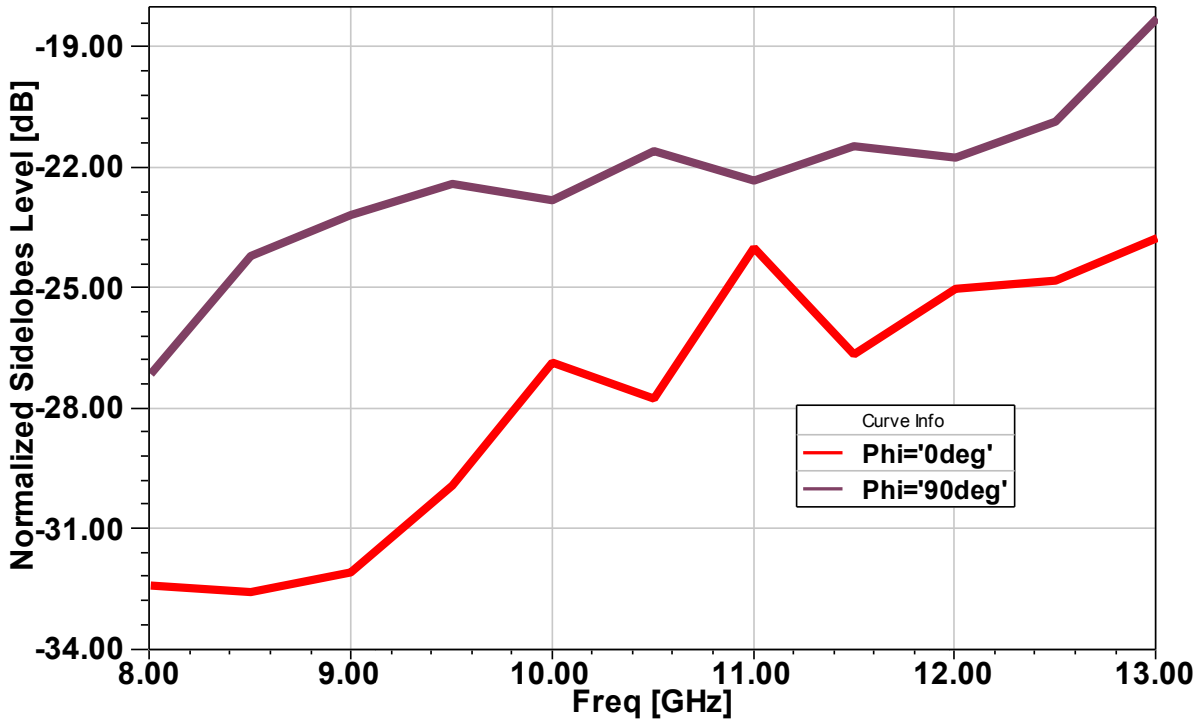




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4. Sidelobes level Normalized in comparison with main beam

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Measurement results (Reflection coefficient)

