



# Corrugated Antenna 26.5-40 GHz 18 dB Gain

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ELL-A3D-SP-265040001800-01

## Description

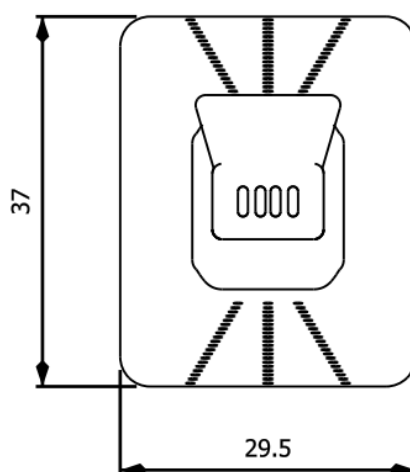
This Corrugated Horn antenna operates for a frequency from 26.5 GHz to 40 GHz. It offers a typical value of 18 dB gain. Particularities of this antenna are to offer low side lobes and its lightness. Indeed, this antenna is lighter than a machining one due to the realization by a 3D printer.



## Technical specifications

Frequency (GHz)	26.5-40
Simulated Gain (dB)	18 Typ.
VSWR max	1.90
Connector	2.92 mm-F
Waveguide	WR28
Size (mm)	29.5*37*90
Weight	39 g

## Dimensional Drawing

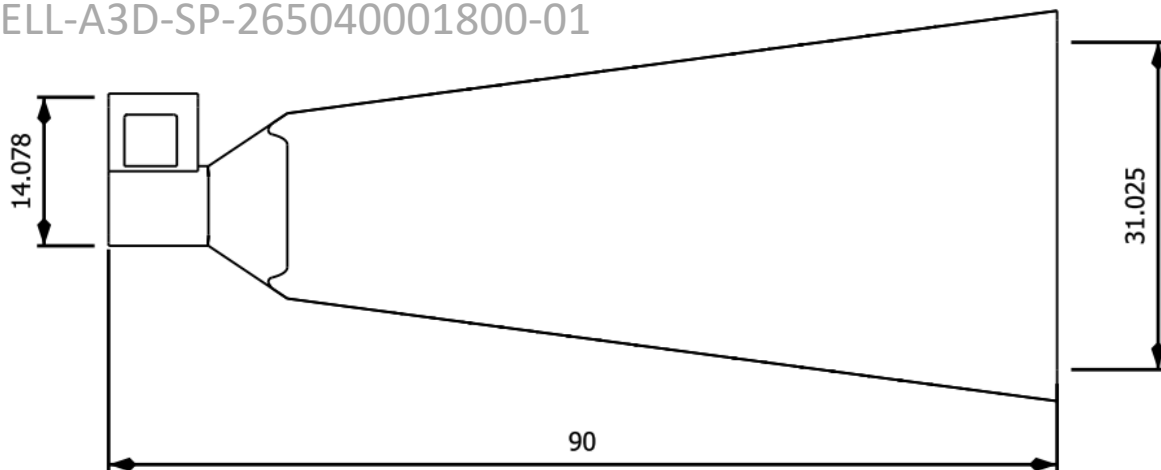




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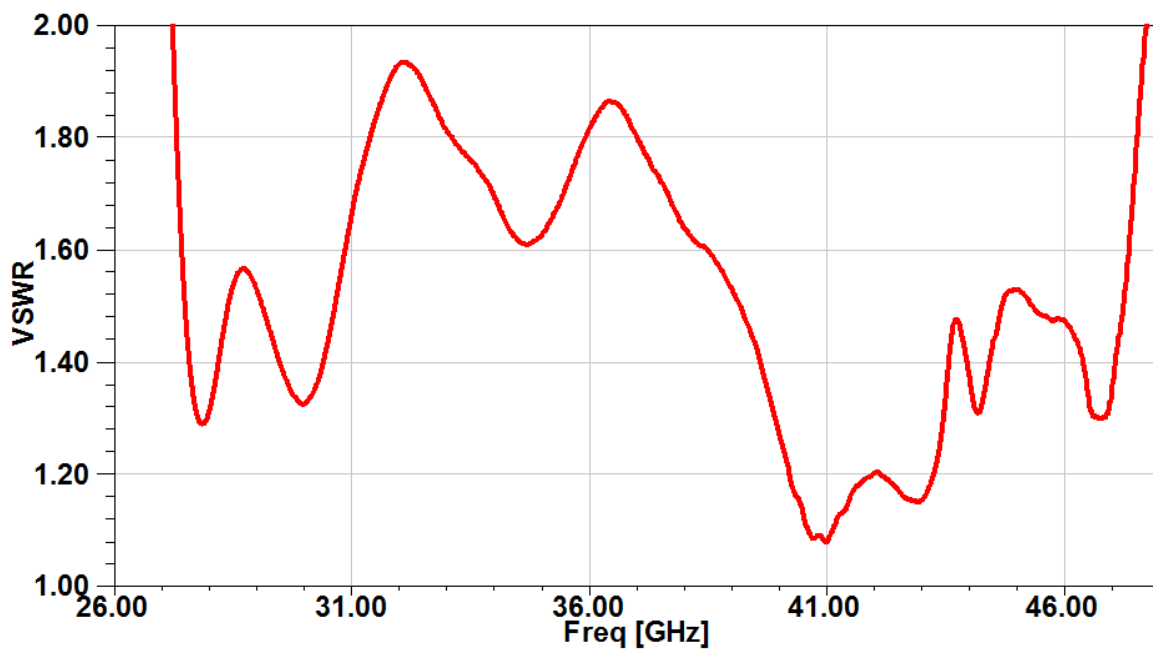
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## Simulation results

### 1. VSWR



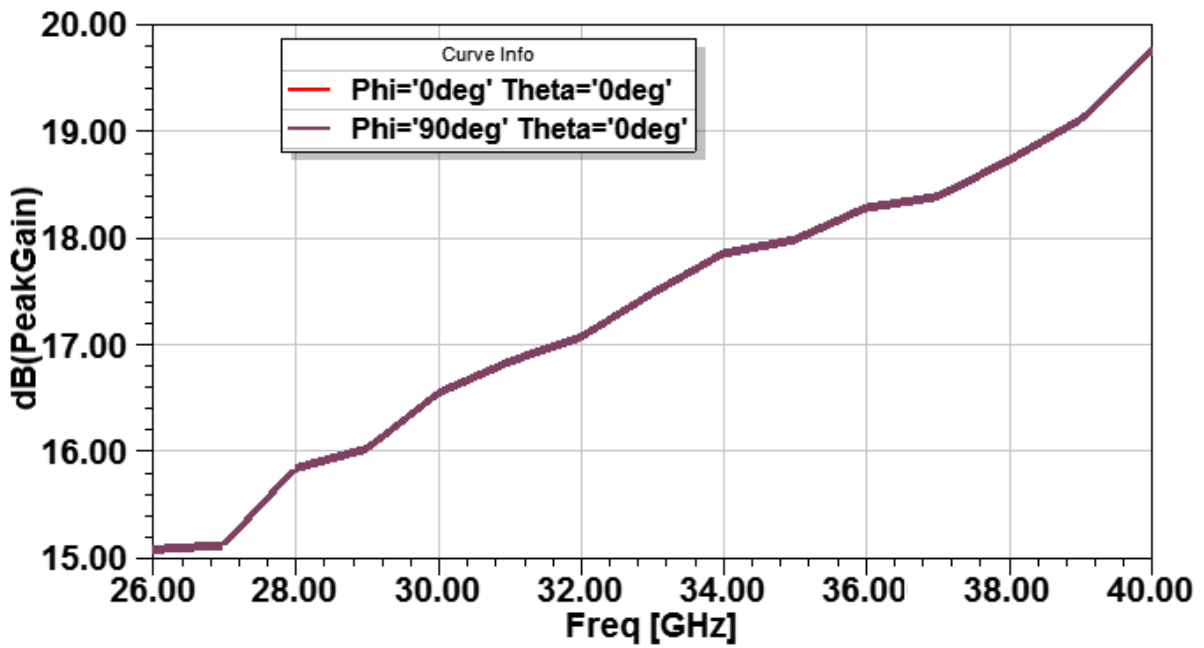


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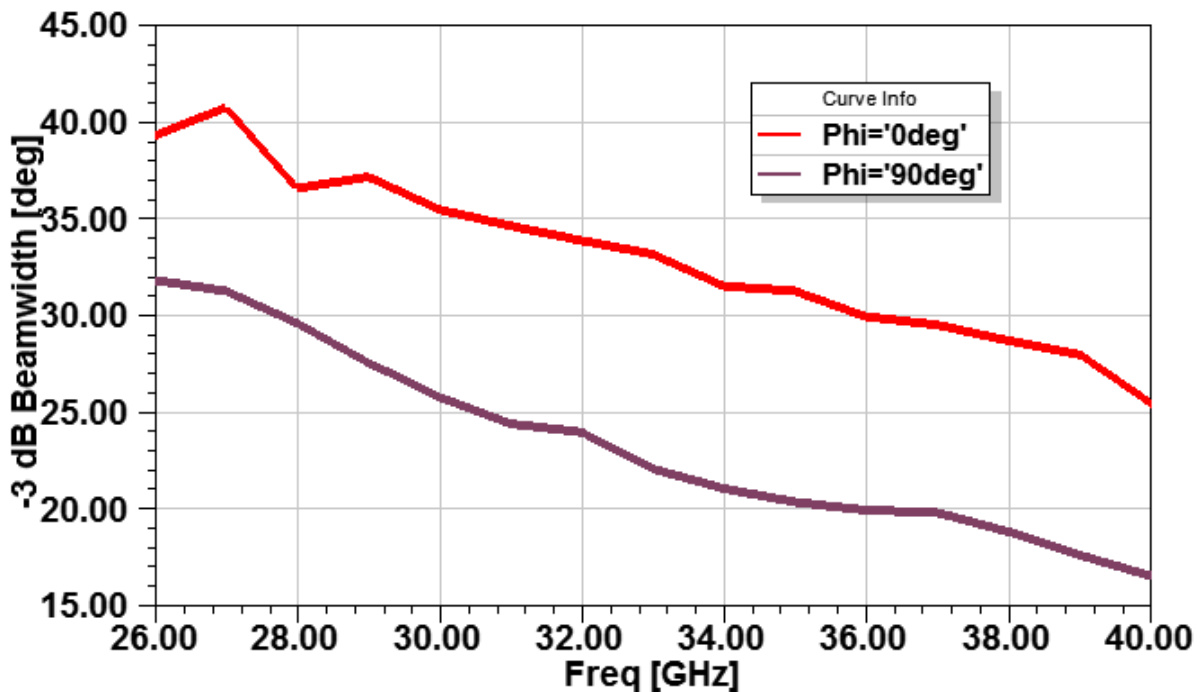
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## 2. Gain

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## 3. -3 dB Beamwidth



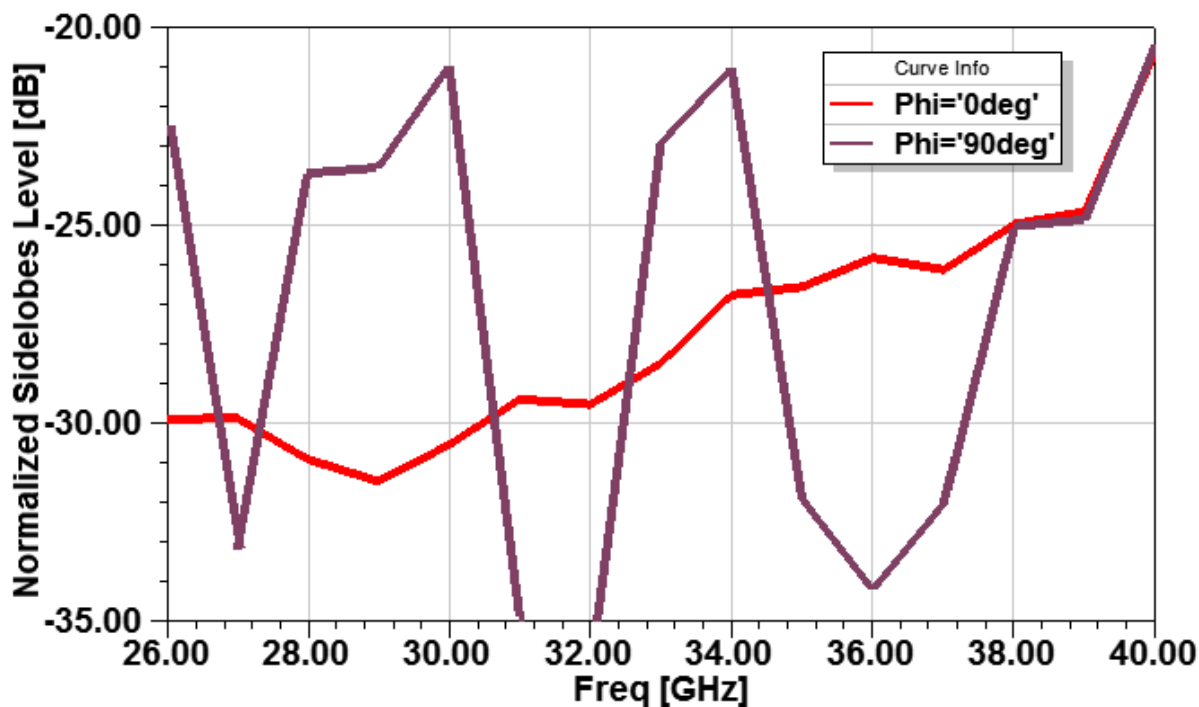


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## 4. Sidelobes level Normalized in comparison with main beam

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## Measurement results (Reflection coefficient)

