Suzhou Talent Microwave,Inc
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# Standard Gain Horn Antenna

## WR-6.5/110-170GHz/25dBi Typ, Gain

## Model: TL-6SHA25

TL-6SHA25 is a standard gain horn antenna that operates from 110 GHz to 170 GHz. The antenna offers 25 dBi nominal gain.The input of this antenna is a WR-6.5 waveguide with UG-387/U-M anti-cocking flange. The standard gain horn is offered for antenna range calibration purpose mainly, but it can be also used for general purpose system set ups.

## Features:

- Operating Frequency 110 to 170 GHz
- Gain: 25dBi Typ
- Linear Polarization
- Good Impedance Match

## Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

## Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency Range | 110 | | 170 | GHz |
| Gain | | 25 | | dBi |
| Polarization mode | | Linear | | |
| Input VSWR | | | 1.06 | :1 |

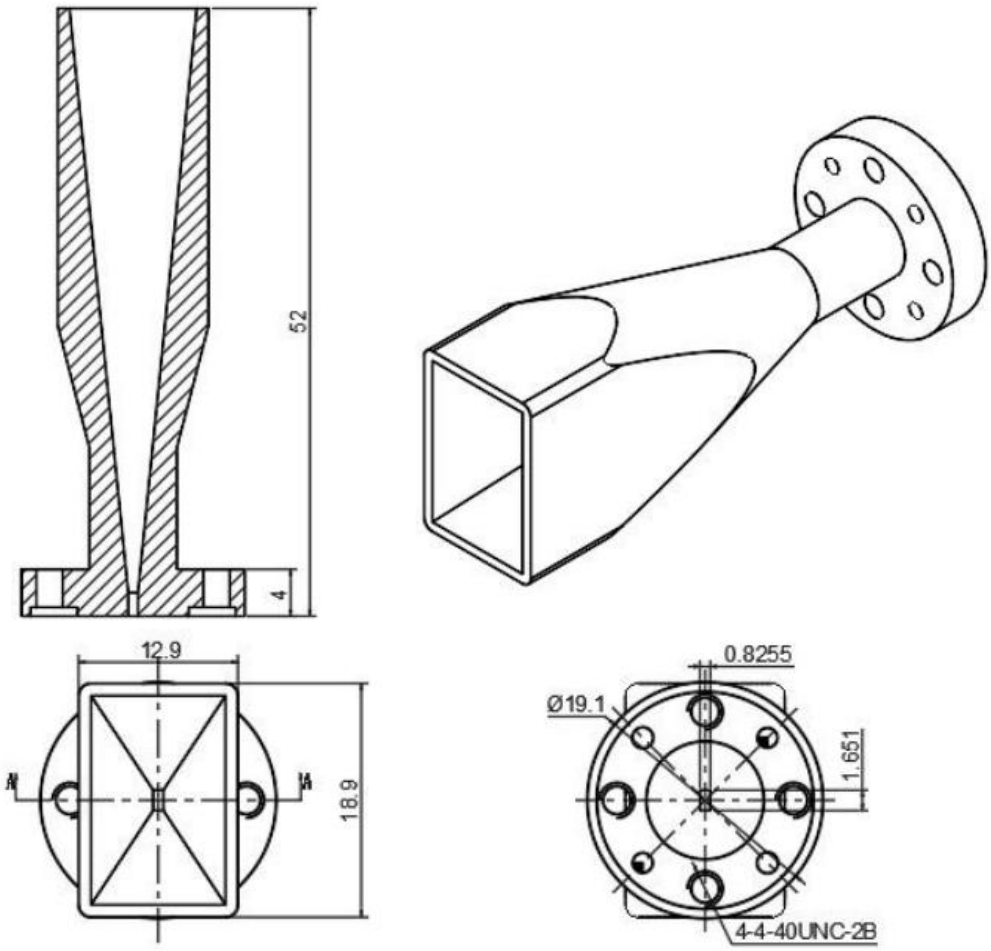
## Envrionmental And Physical Characteristics:

| Description | Parameter | Units |
|---|---|---|
| Material | Brass | |
| Connectors | WR-6.5/UG-387/U | |
| Size | ø19.1*24.6 | mm |
| Weight | 15 | g |

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## Outline Drawing:

Unit:mm; Tolerance:±0.1mm




ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

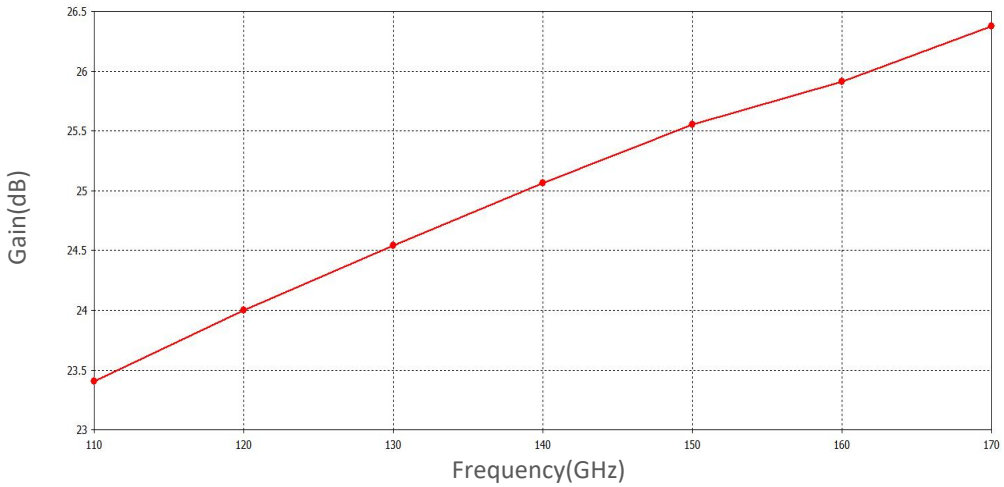
## Ordering Information:

| Base Number | Description | Revision |
|---|---|---|
| TL-6SHA25 | Standard Gain Horn Antenna, 110-170GHz,Gain: 25dBi Typ. | Rev.1.0 |

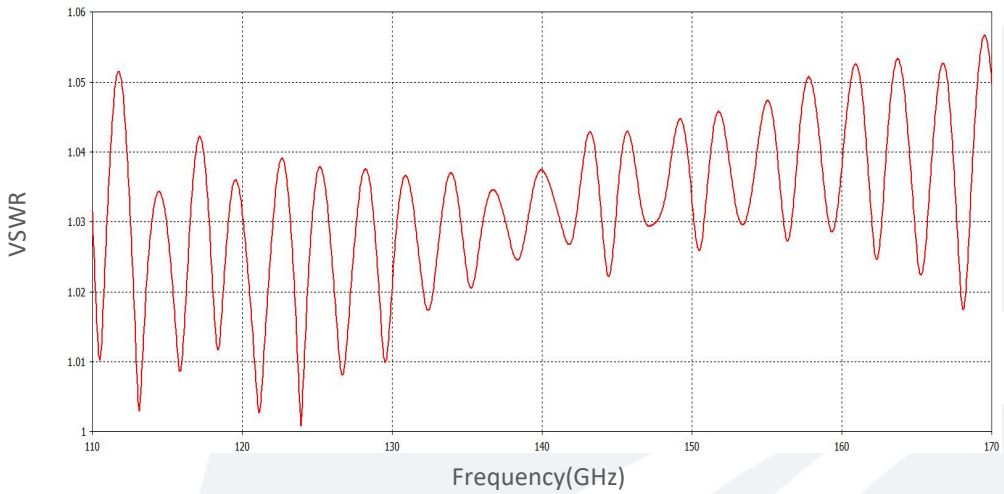
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## Simulation Performance Data:

### Gain vs Frequency

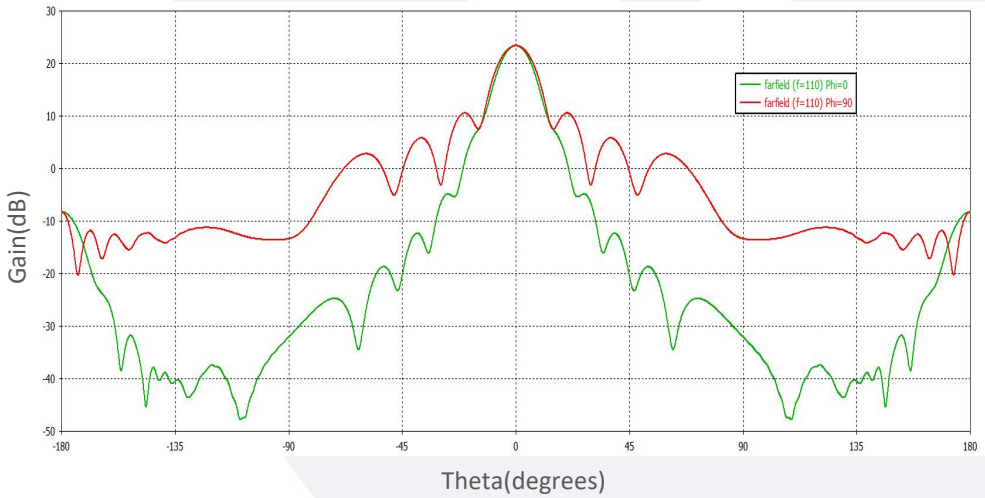



### VSWR vs Frequency




### Gain vs Theta

**110GHz:**

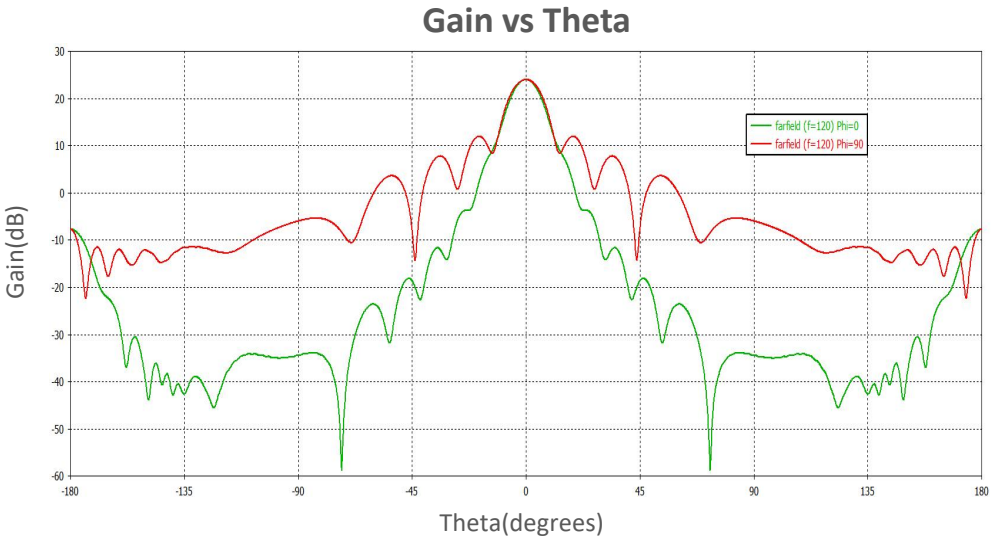



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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## Simulation Performance Data:

**120GHz:**




**130GHz:**




**140GHz:**

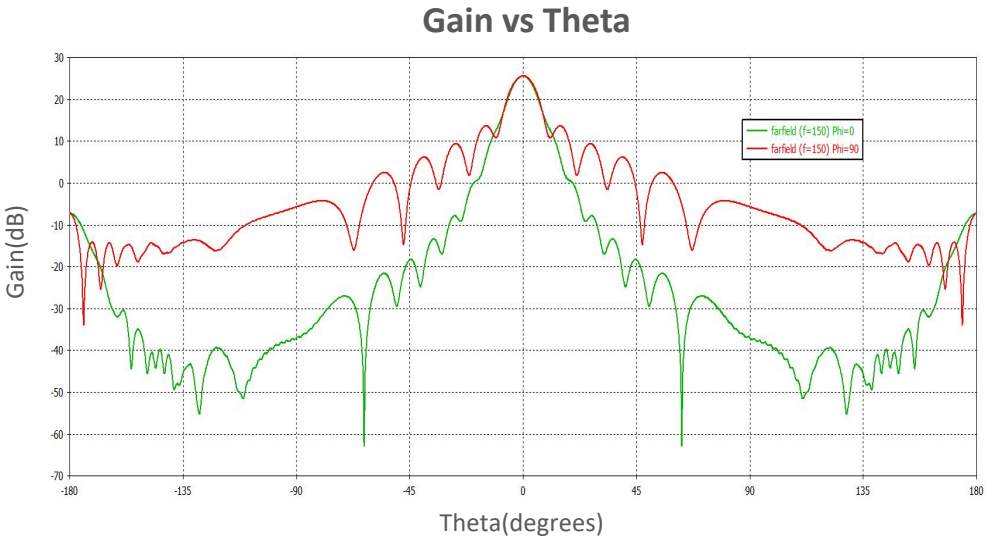



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## Simulation Performance Data:

**150GHz:**




**160GHz:**




**170GHz:**




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