

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:

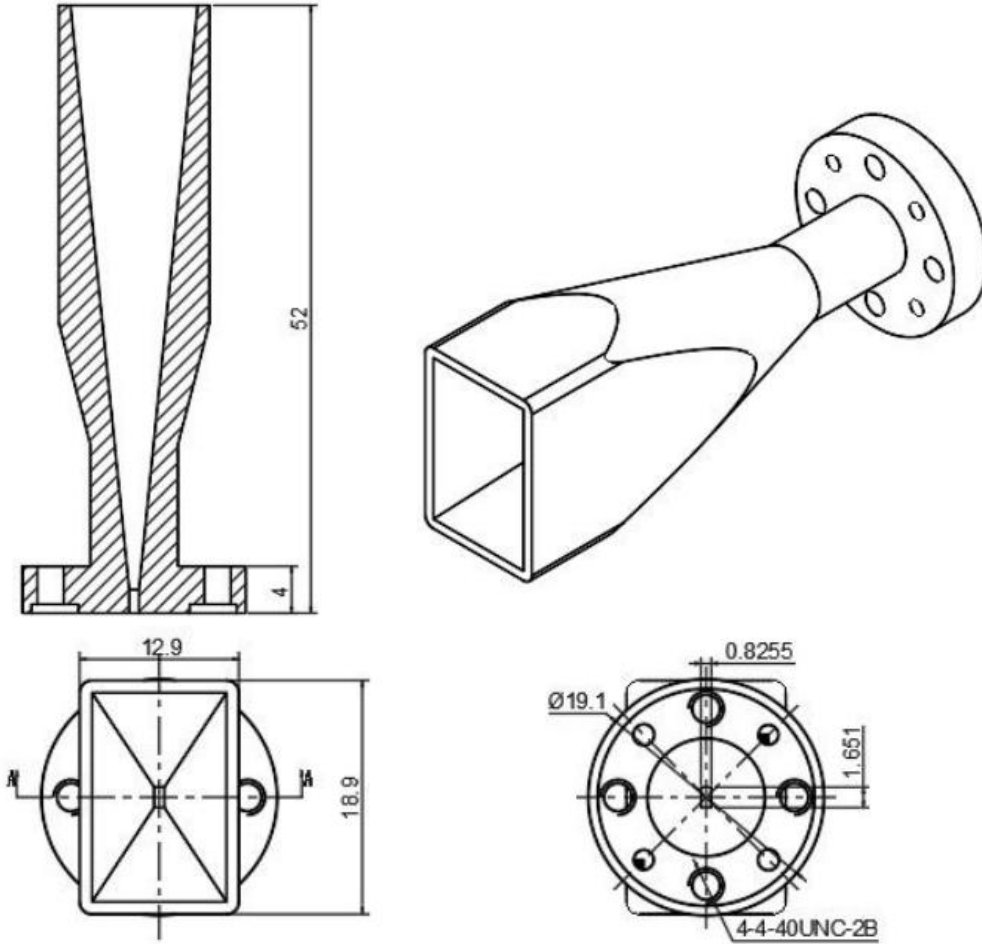
Parameter	Min	Typ	Max	Units
Frequency Range	110		170	GHz
Gain		25		dBi
Polarization mode	Linear			
Input VSWR			1.15	:1

Environmental And Physical Characteristics:

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

Outline Drawing:

Unit:mm



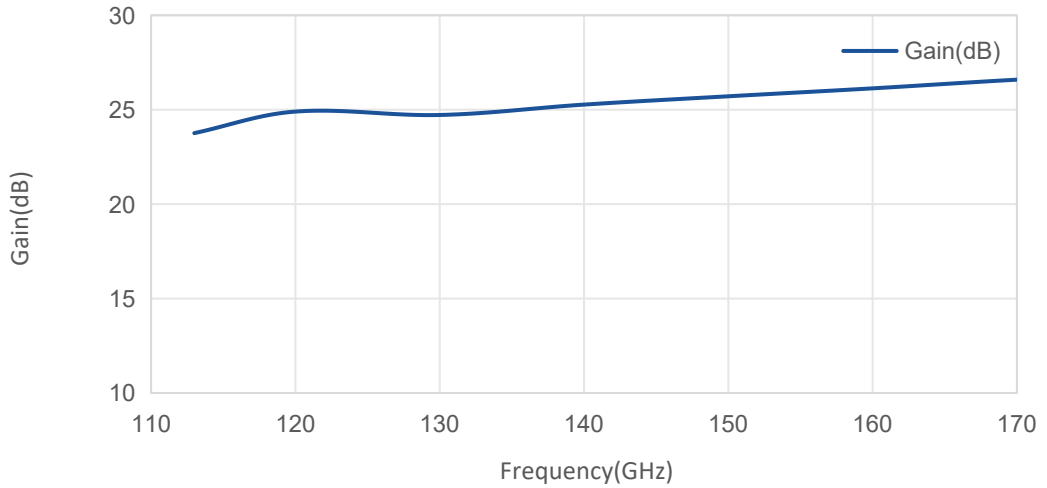
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

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

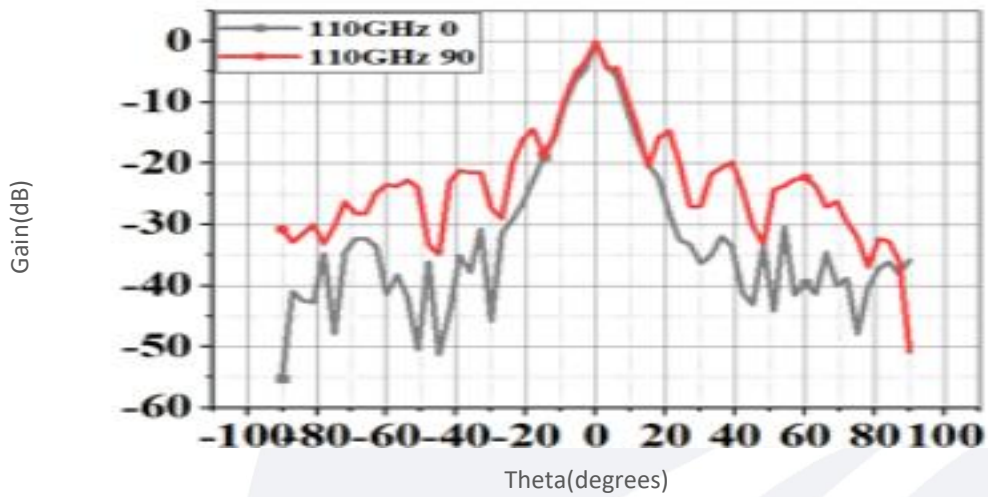
Typical Performance Data:

Gain vs Frequency



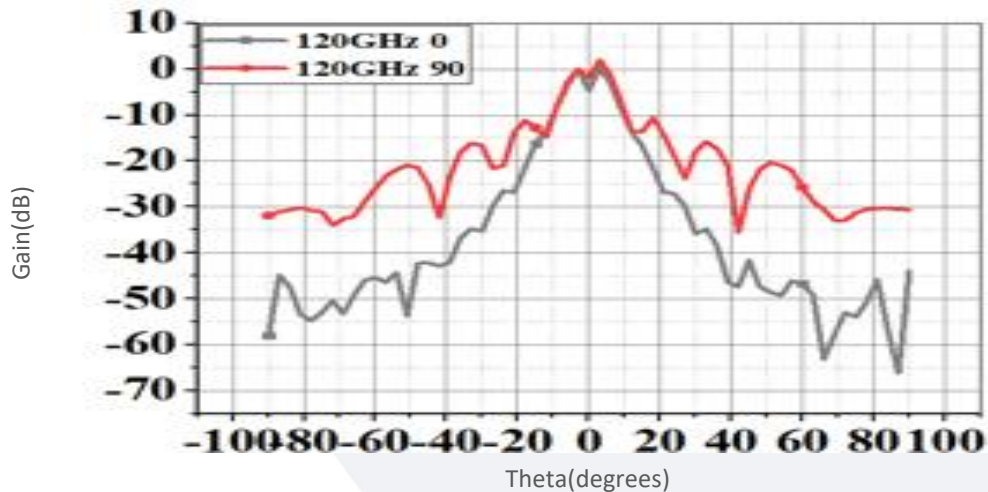
110GHz:

Gain vs Theta



120GHz:

Gain vs Theta

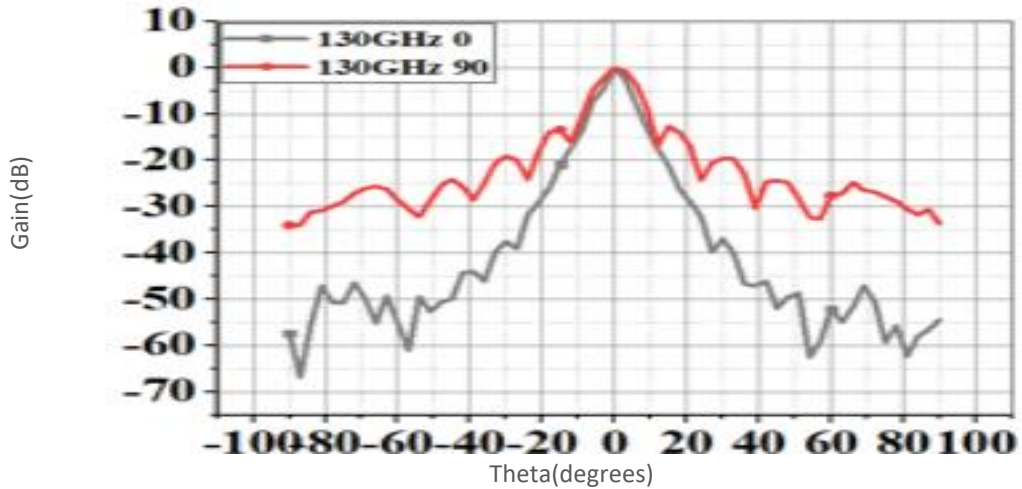


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

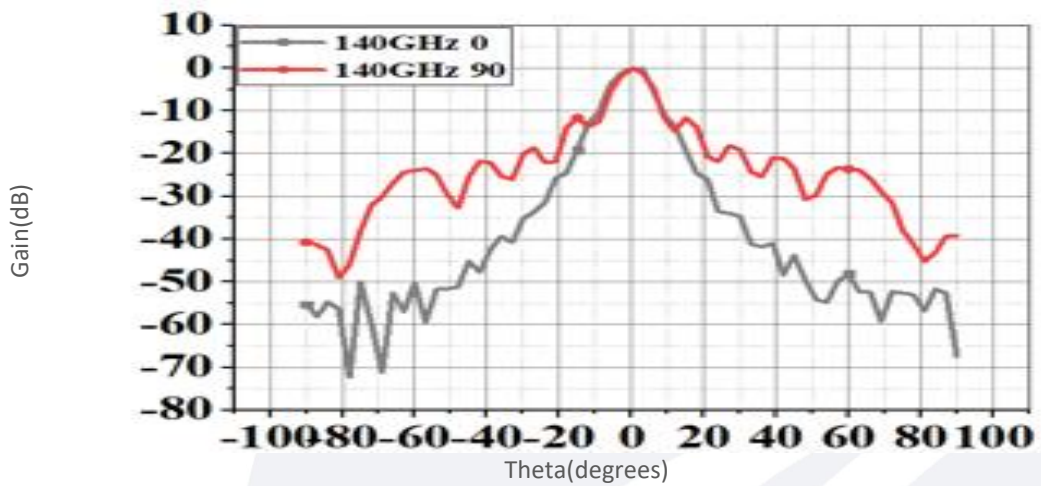
130GHz:

Gain vs Theta



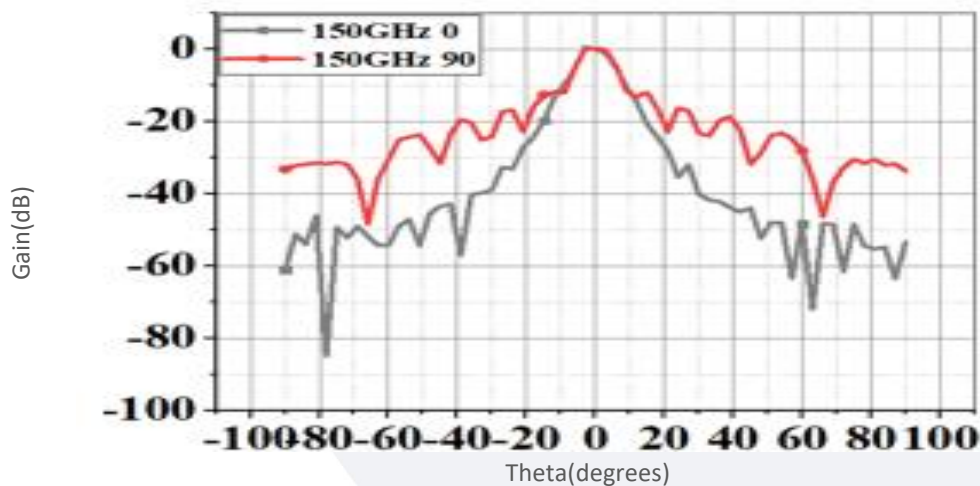
140GHz:

Gain vs Theta



150GHz:

Gain vs Theta

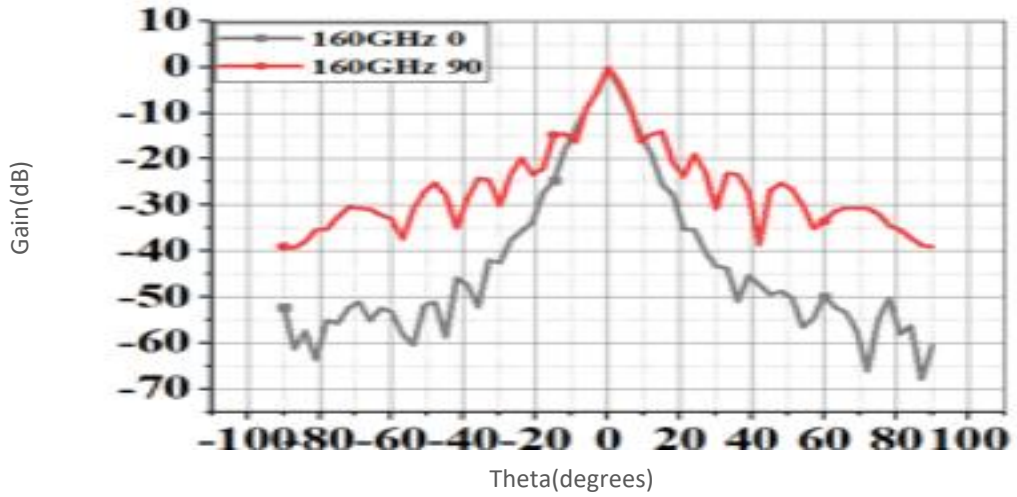


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

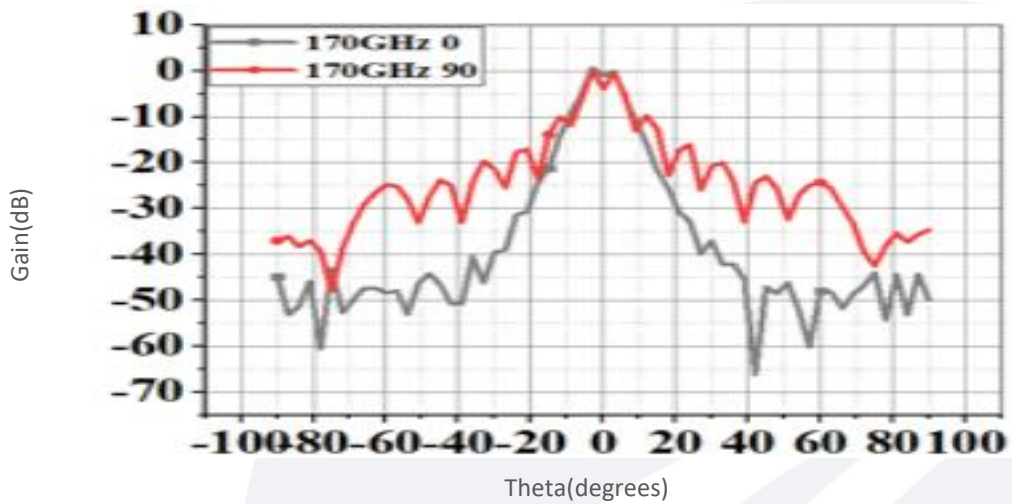
160GHz:

Gain vs Theta



170GHz:

Gain vs Theta



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