Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

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

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency Range	110		170	GHz
增益 Gain		25		dBi
极化方式 Polarization mode		Linear		
驻波 Input VSWR			1.06	:1

环境和机械特性 Envrionmental And Physical Characteristics:

类型 Description	参数 Parameter	单位 Units
材质 Material	Brass	
接口 Connectors	WR-6.5/UG-387/U	
尺寸 Size	ø19.1*24.6	mm
重量 Weight	15	g

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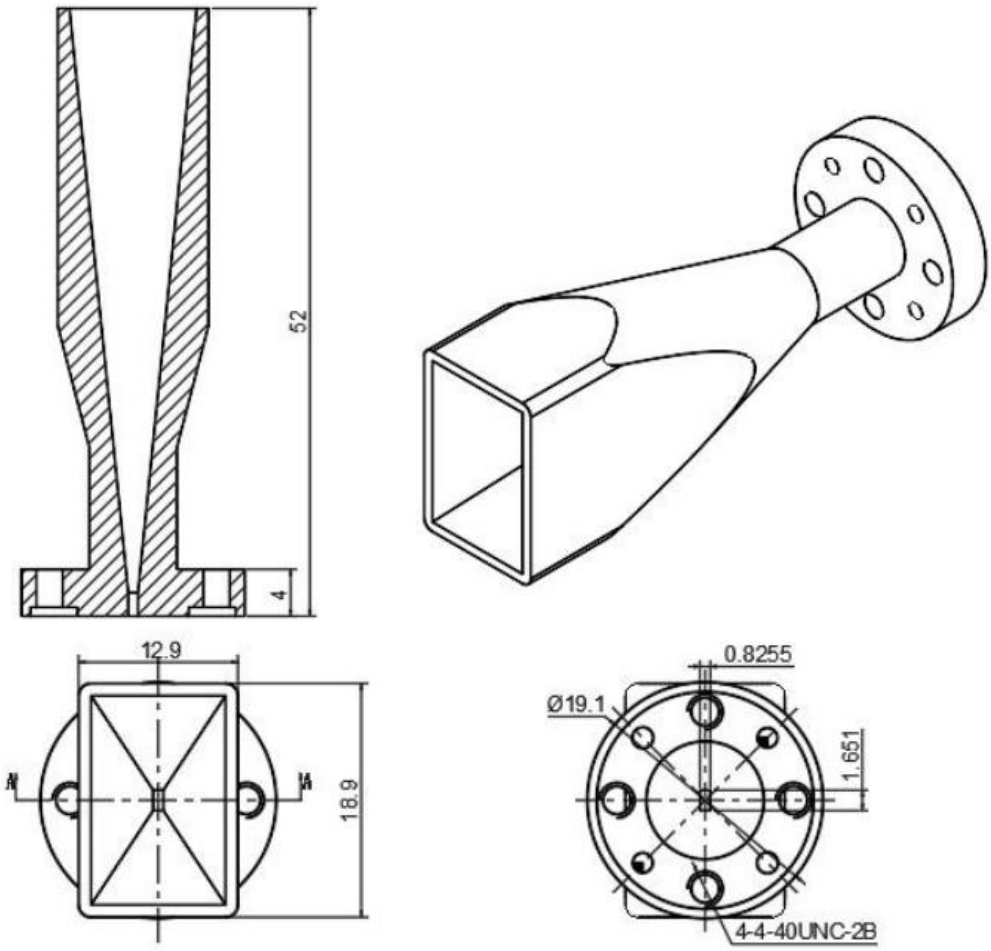
外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TL-6SHA25	Standard Gain Horn Antenna, 110-170GHz,Gain: 25dBi Typ.	Rev.1.0

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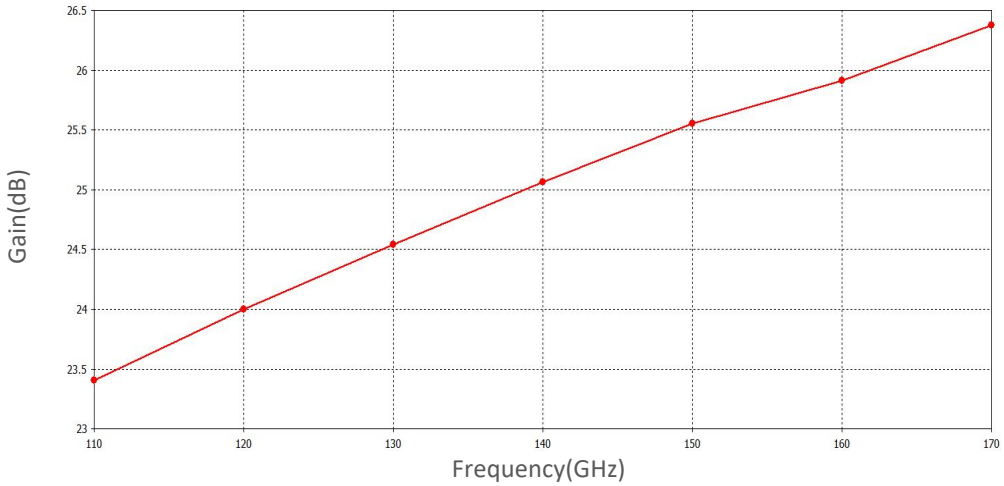
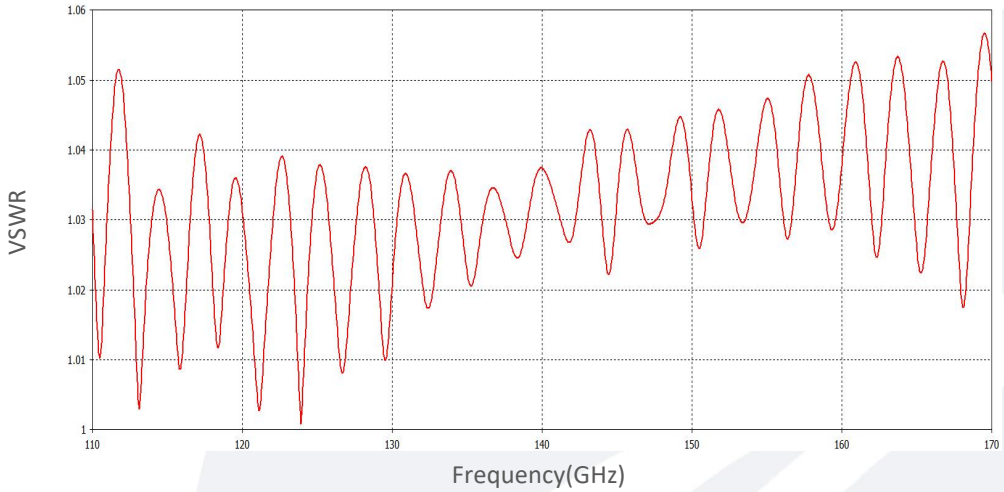
仿真曲线 Simulation Performance Data:

Gain vs Frequency

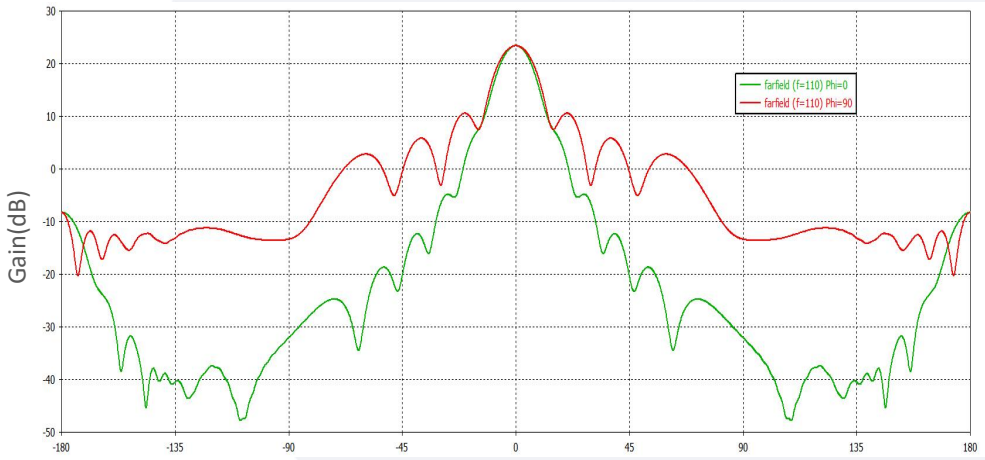


VSWR vs Frequency



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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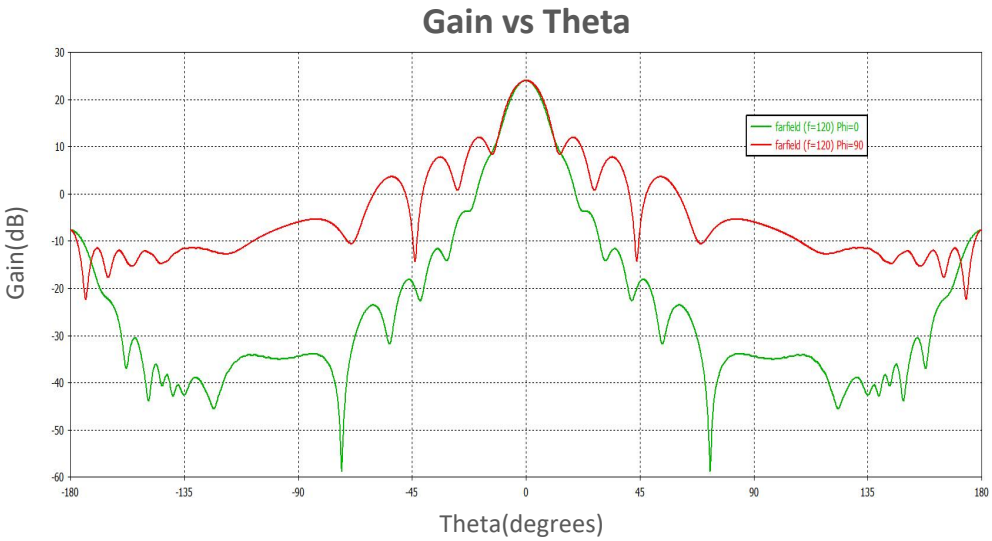
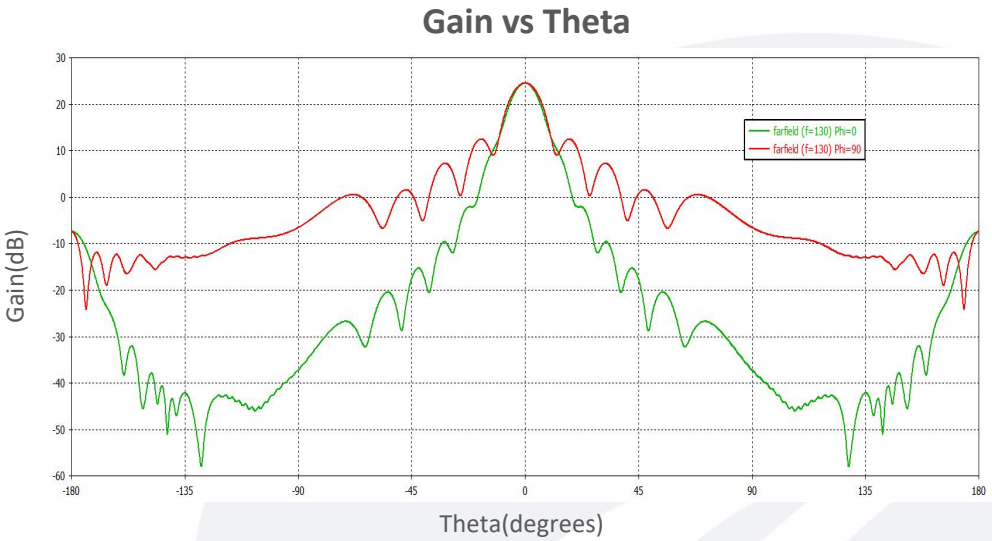
仿真曲线 Simulation Performance Data:

120GHz:



130GHz:



140GHz:



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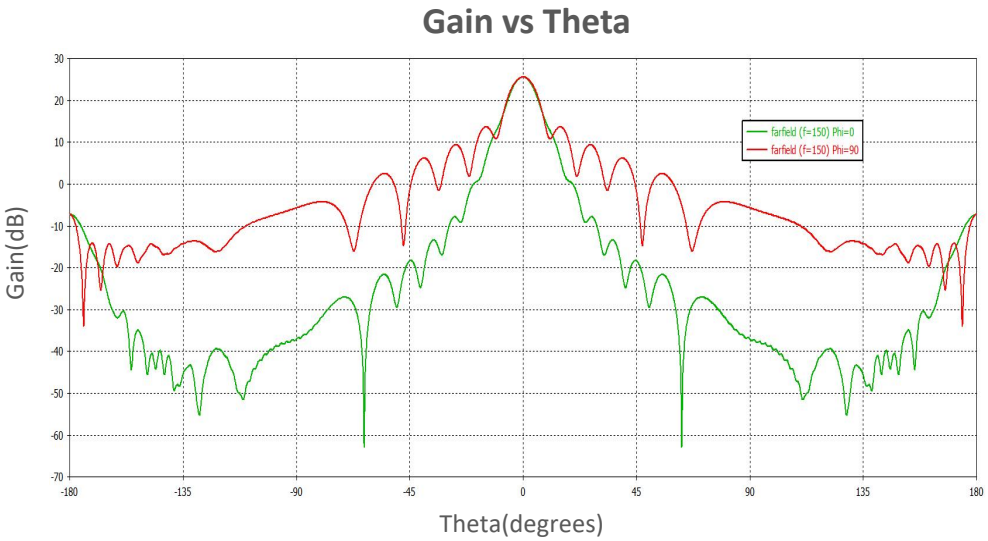
仿真曲线 Simulation Performance Data:

150GHz:



160GHz:



170GHz:



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.