Suzhou Talent Microwave,Inc
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High Gain Lens Horn Antenna

WR-6.5/110-170GHz/40.6dBi Gain Model: TLHGLA-110170-40-6.5

High gain lens horn antenna TLHGLA-110170-40-6.5 is a operating from 110 to 170GHz with a typical 40.6dBi gain and low VSWR 1.6:1 with rectangular waveguide WR06 input. The antenna is ideally suited for antenna measurement, material measurement, system intergration and other applications.

Features:

- Operating Frequency 110 to 170GHz
- Nominal RF Gain: 40.6dBi Typ
- High Return Loss
- 3dB Beamwidth, E-Plane:1.3 deg
- 3dB Beamwidth, H-Plane:1.4 deg
- Sidelobe, E-Plane:-31.7 dB
- Sidelobe, H-Plane:-32.7 dB

Applications:

- Radar/Communication Systems
- 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	37.7	40.6	42.6	dBi
驻波 VSWR			1.6	:1
极化方式 Polarization mode	Linear			
3dB波束宽度 3dB Antenna Beamwidth	E plane: 1.3; H plane: 1.4			°
副瓣电平 Side Lobe Level	E plane: -31.7; H plane: -32.7			

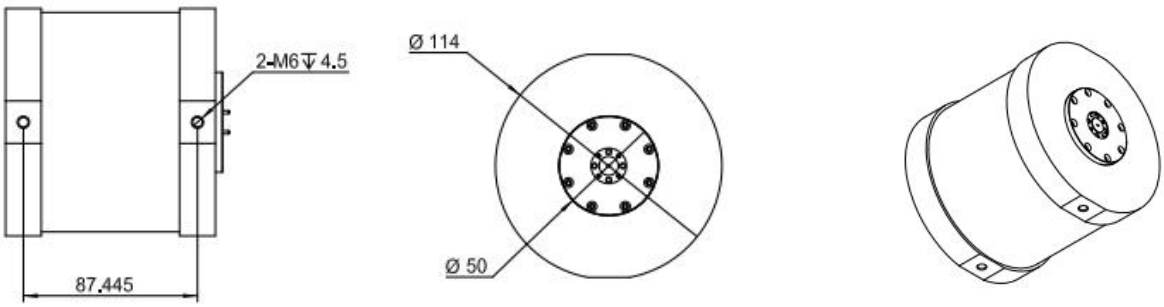
环境和机械特性 Envrionmental And Physical Characteristics:

类型 Description	参数 Parameter	单位 Units
材质 Material	Aluminium	
接口 Connectors	WR-6.5	
尺寸 Size	109.4*ø114	mm

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外形图 Outline Drawing:

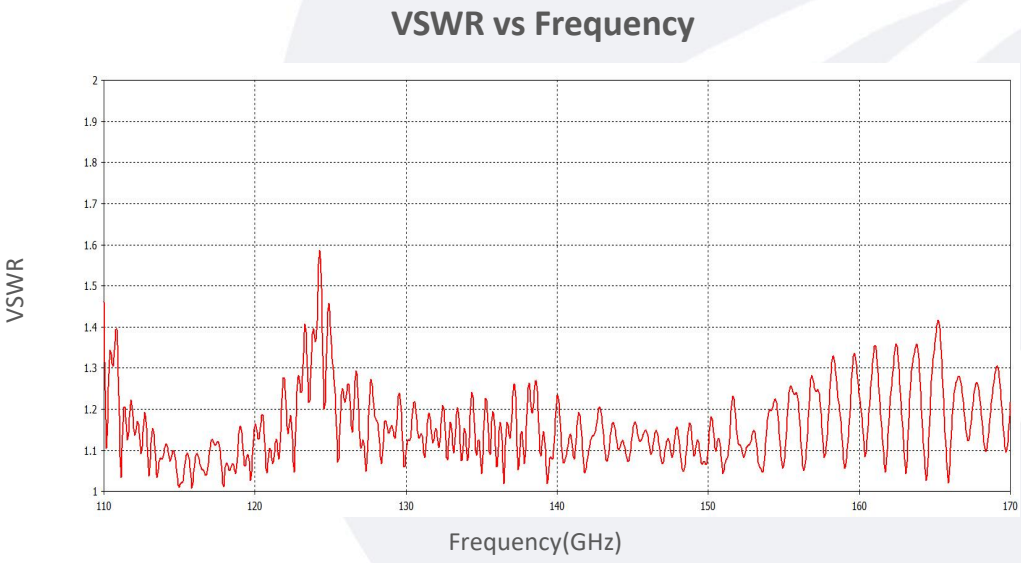
Unit:mm; Tolerance:±0.1mm



订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLHGLA-110170-40-6.5	Lens Horn Antenna,110-170GHz, Gain: 40.6dBi Typ	Rev.1.1

仿真曲线 Simulation Data:

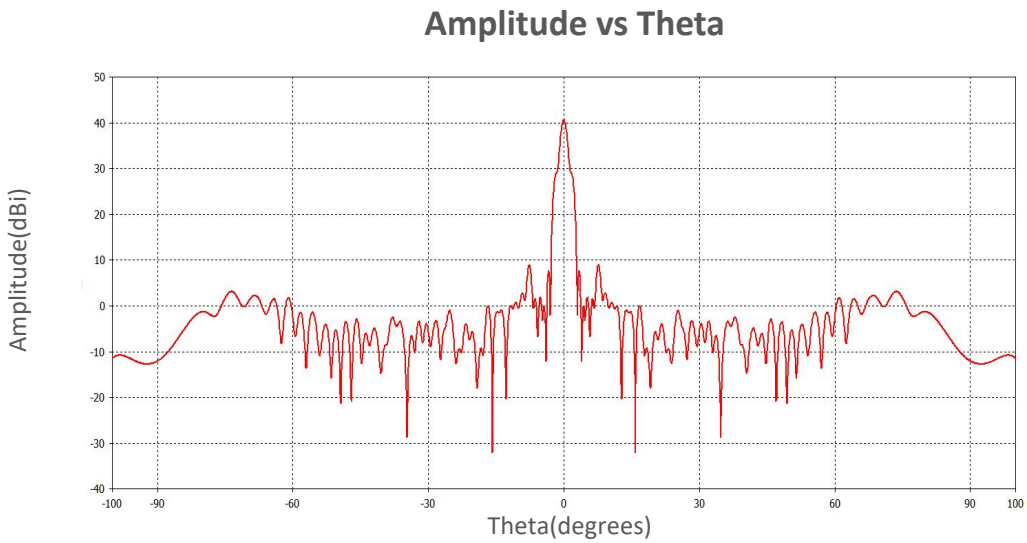


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

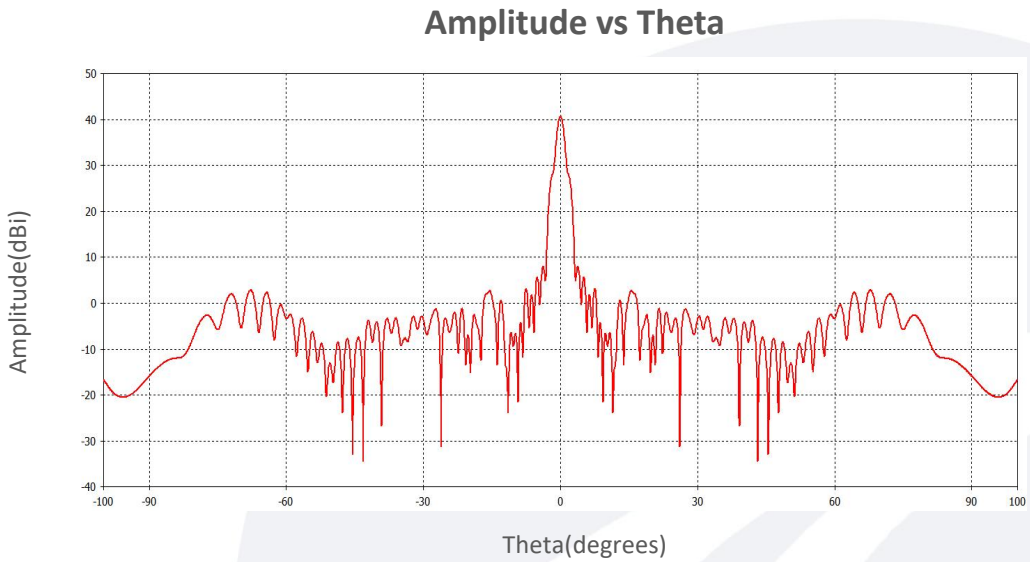
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仿真曲线 Simulation Data:

140GHz:



140GHz:



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