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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	110		170	GHz
Gain	37.7	40.6	42.6	dBi
VSWR			1.6	:1
Polarization mode	Linear			
3dB Antenna Beamwidth	E plane: 1.3; H plane: 1.4			°
Side Lobe Level	E plane: -31.7; H plane: -32.7			

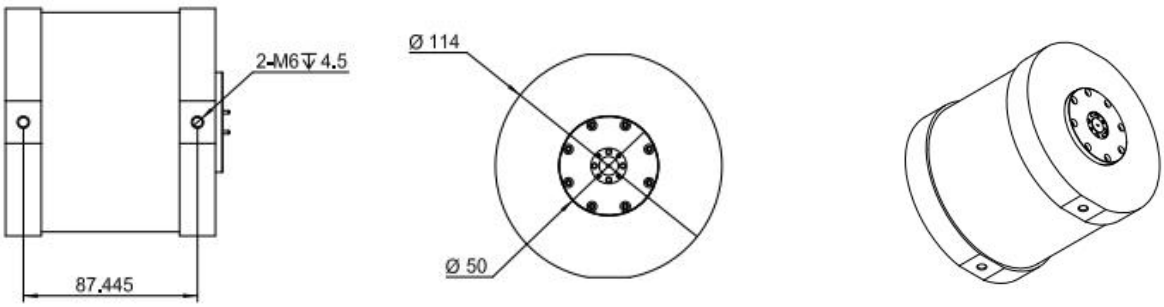
Envrionmental And Physical Characteristics:

Description	Parameter	Units
Material	Aluminium	
Connectors	WR-6.5	
Size	109.4*ø114	mm

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Outline Drawing:

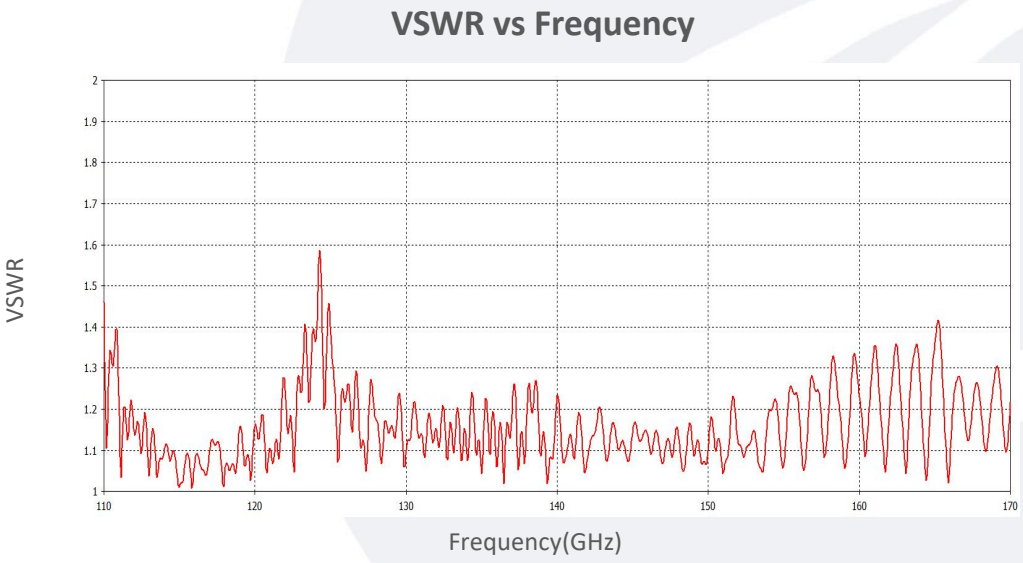
Unit:mm; Tolerance:±0.1mm



Ordering Information:

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

Simulation Data:

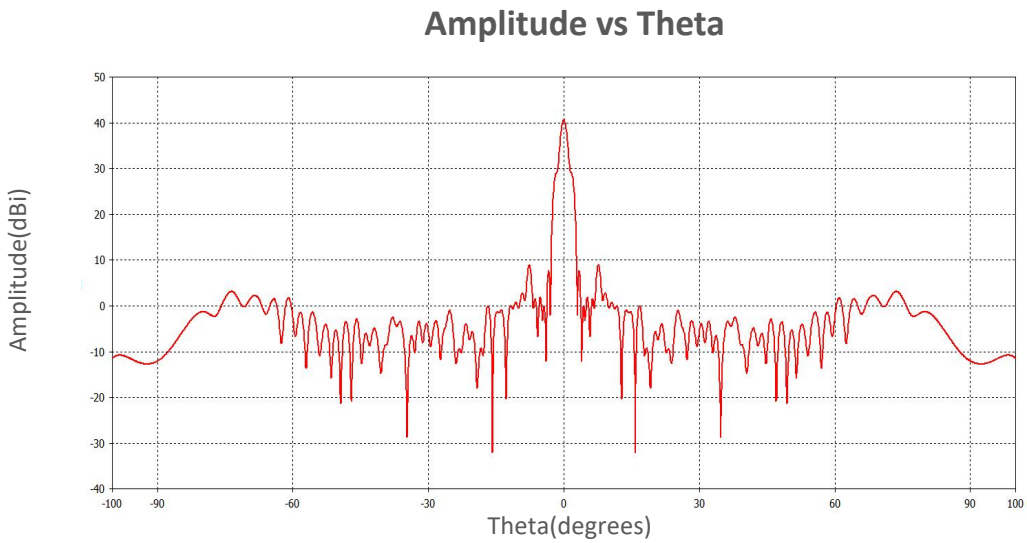


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

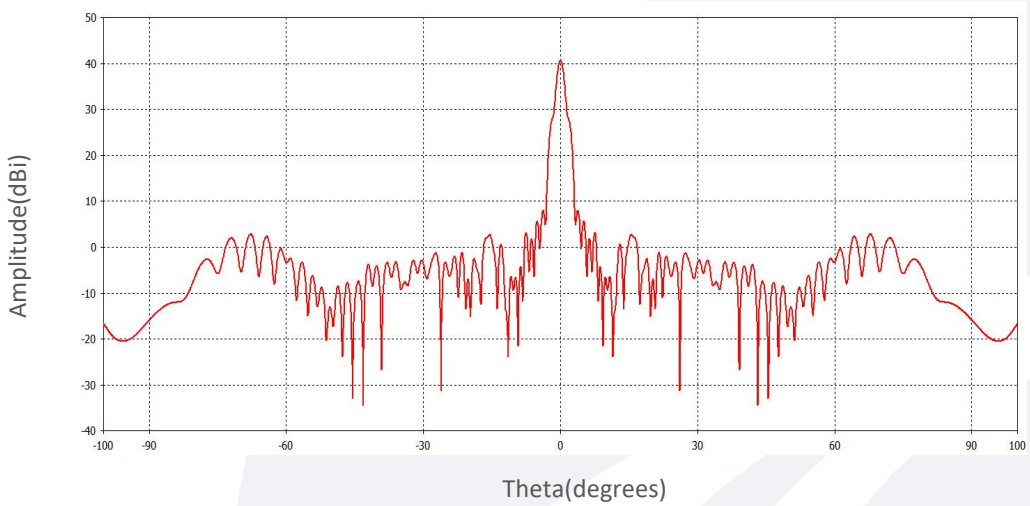
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Simulation Data:

140GHz:



140GHz:



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