

Standard Gain Horn Antenna

75-110GHz/25dBi Typ, Gain/WR-10

Model:TL-10SHA25-T1

TL-10SHA25-T1 is a standard gain horn antenna that operates from 75 GHz to 110 GHz. The antenna offers 25 dBi nominal gain. The input of this antenna is a WR-10 waveguide with UG-387/U 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 75 to 110 GHz
- Linear Polarization
- Good Impedance Match

Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

电气特性 Electrical Characteristics:

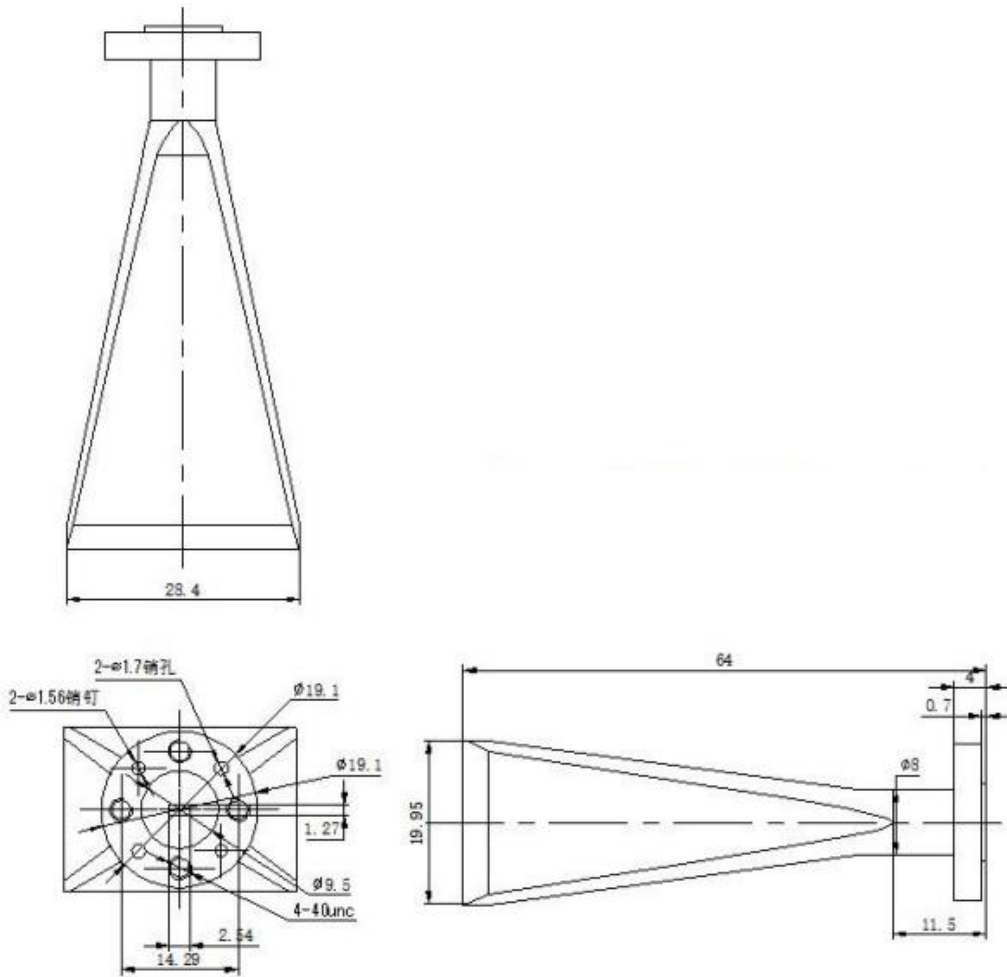
参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency Range	75		110	GHz
增益 Gain		25		dBi
极化方式 Polarization	Linear			
驻波 Input VSWR			1.1	:1

环境和机械特性 Environmental And Physical Characteristics:

类型 Description	参数 Parameter	单位 Units
操作温度 Operating Temperature	-40 To +85	°C
存储温度 Storage Temperature	-40 to +85	°C
材质 Material	Brass	
表面处理 Finish	Gold plating	
接口 Connectors	WR-10/UG-387/U	
尺寸 Size	28.4*19.95*64	mm
重量 Weight	50	g

外形图 Outline Drawing:

Unit:mm



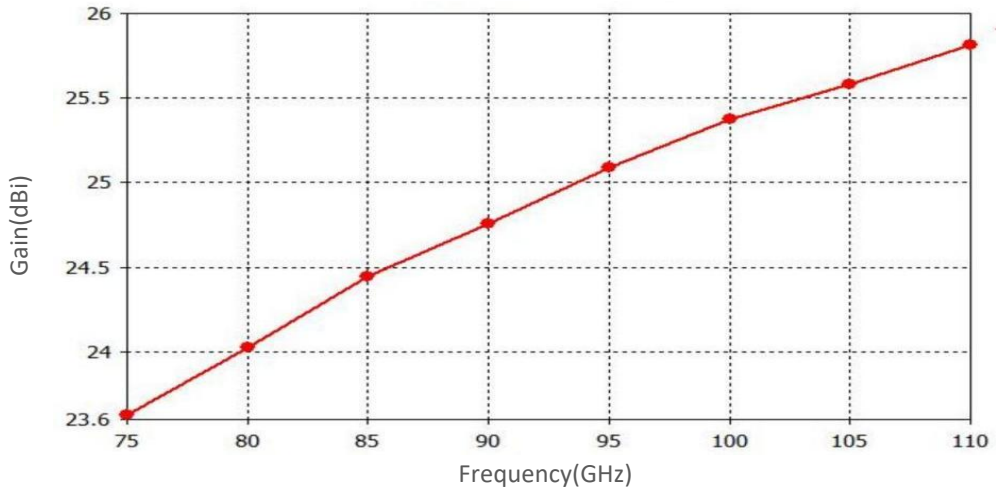
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TL-10SHA25-T1	Standard Gain Horn Antenna, 75-110GHz, Gain: 25 dBi Typ.	Rev.1.1

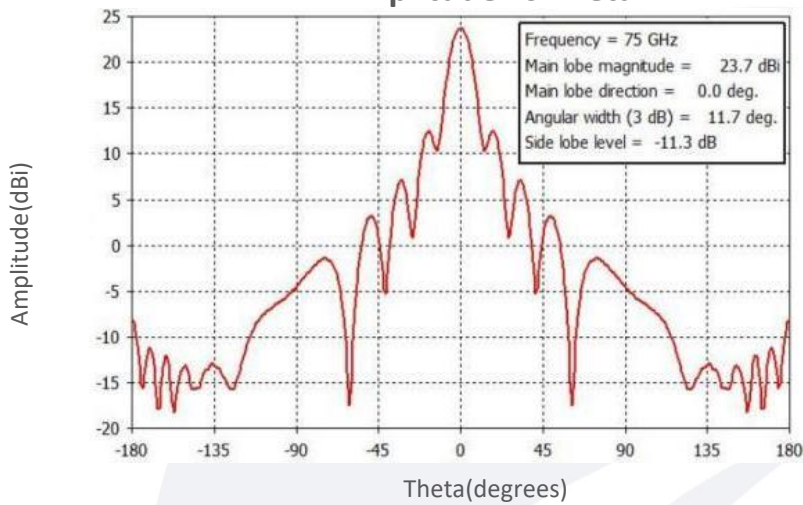
典型曲线 Typical Performance Data:

Gain vs Frequency



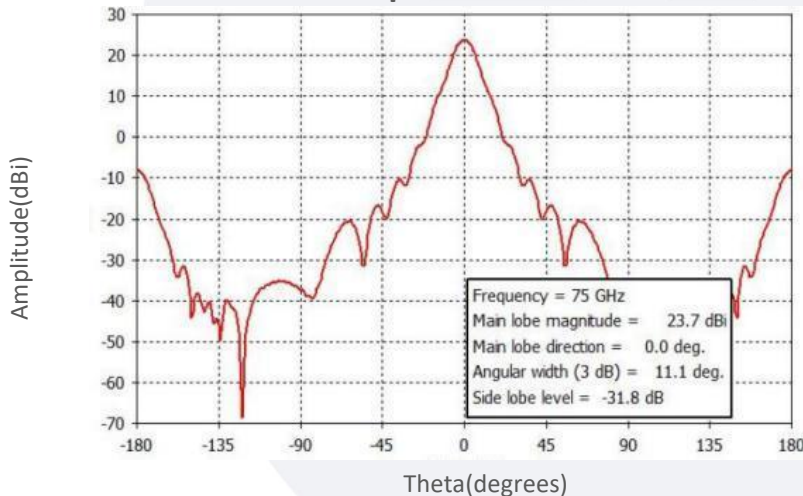
E plane, 75GHz:

Amplitude vs Theta



H plane, 75GHz:

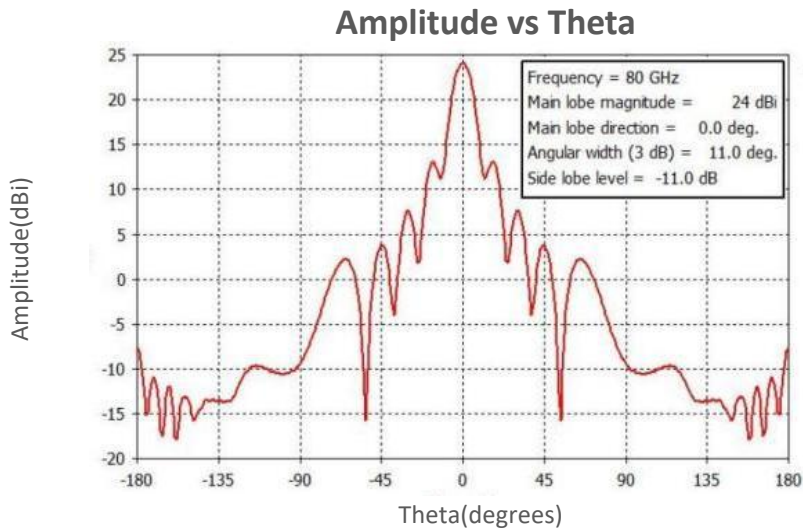
Amplitude vs Theta



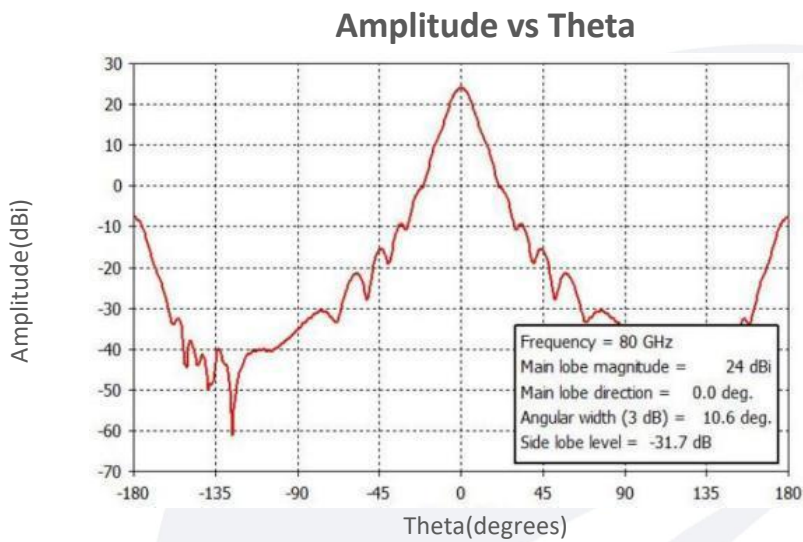
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

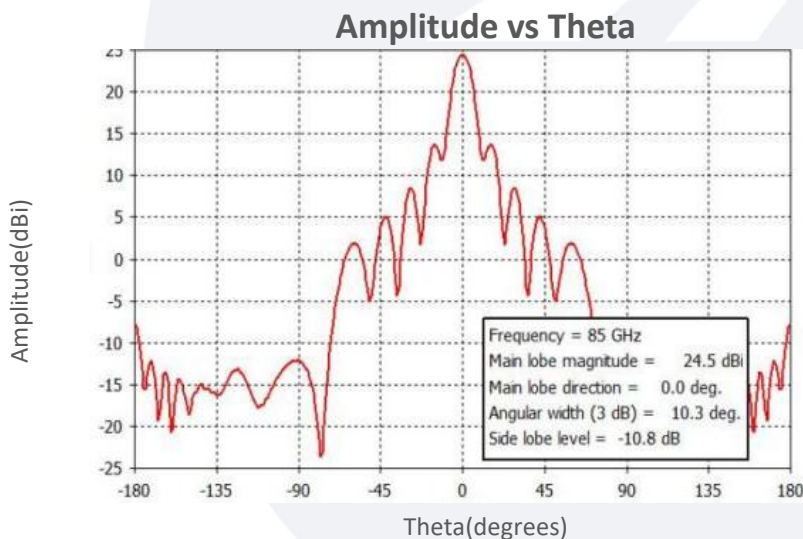
E plane, 80GHz:



H plane, 80GHz:



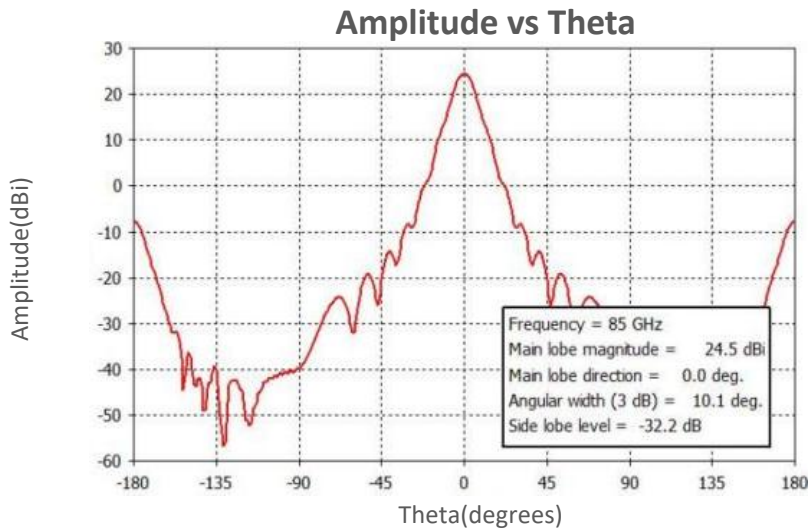
E plane, 85GHz:



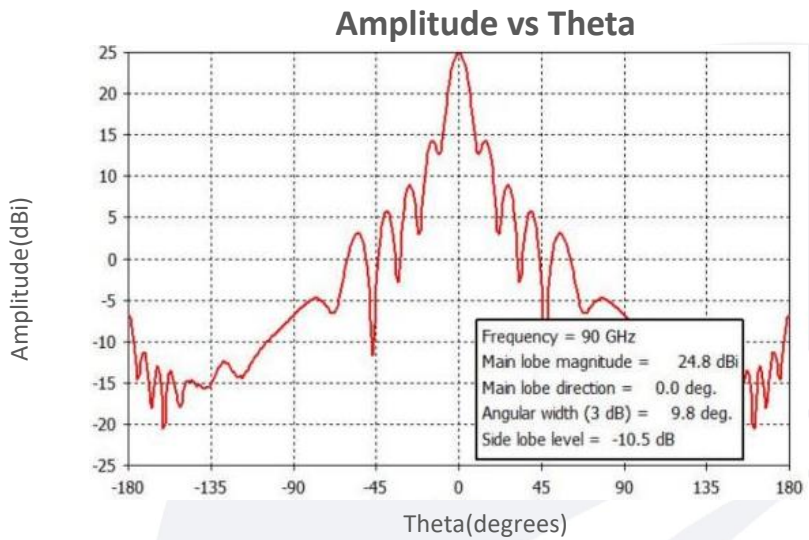
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典型曲线 Typical Performance Data:

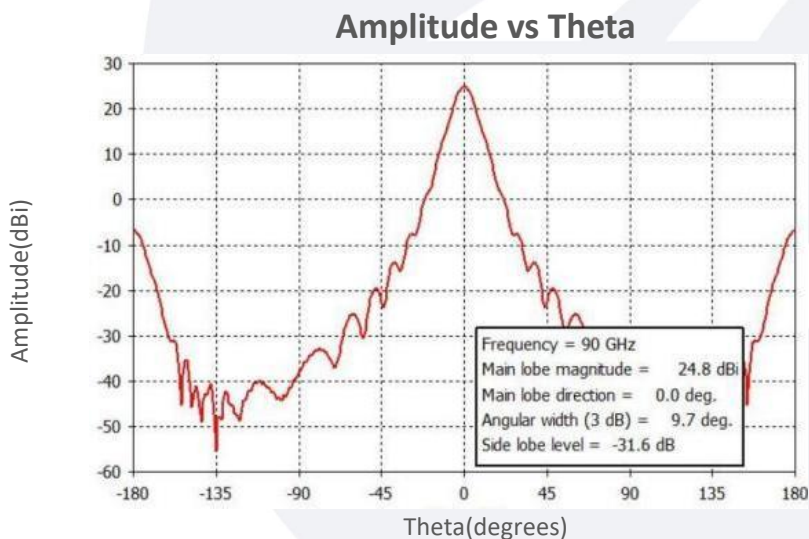
H plane, 85GHz:



E plane, 90GHz:



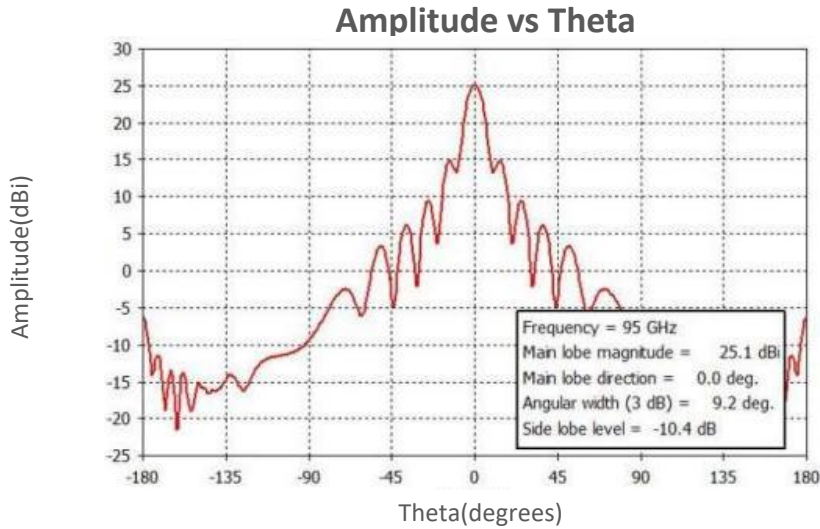
H plane, 90GHz:



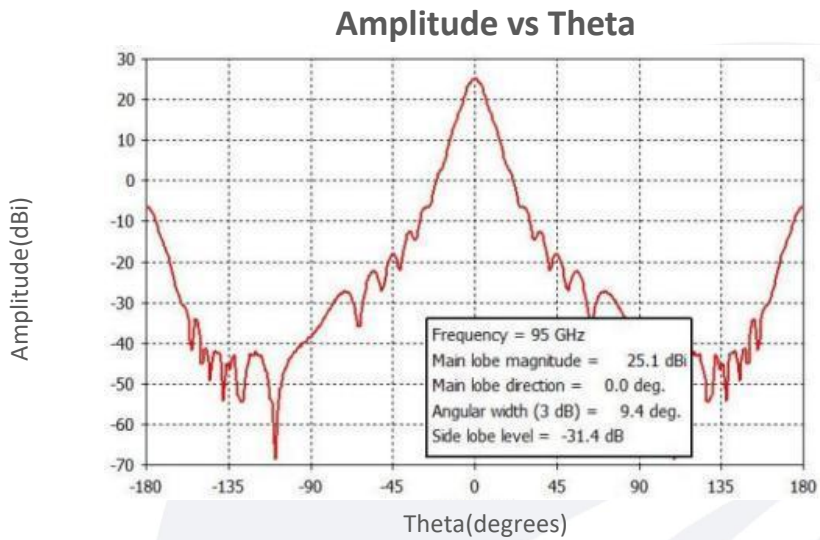
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典型曲线 Typical Performance Data:

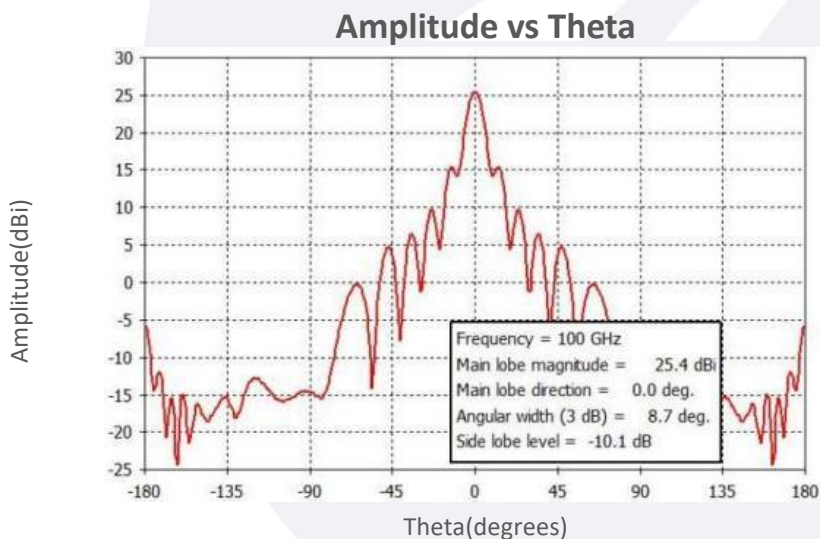
E plane, 95GHz:



H plane, 95GHz:



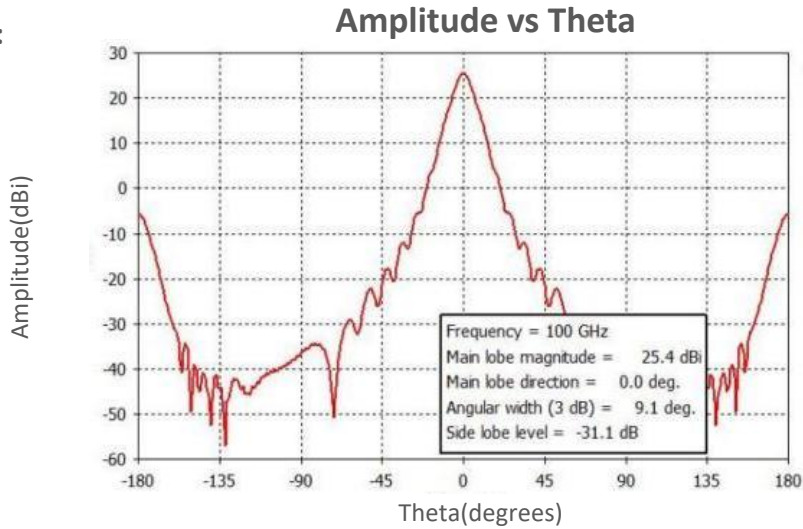
E plane, 100GHz:



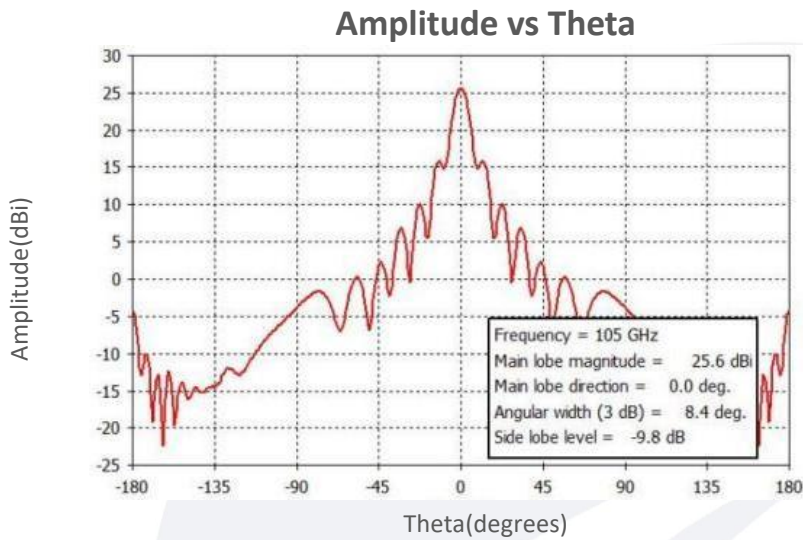
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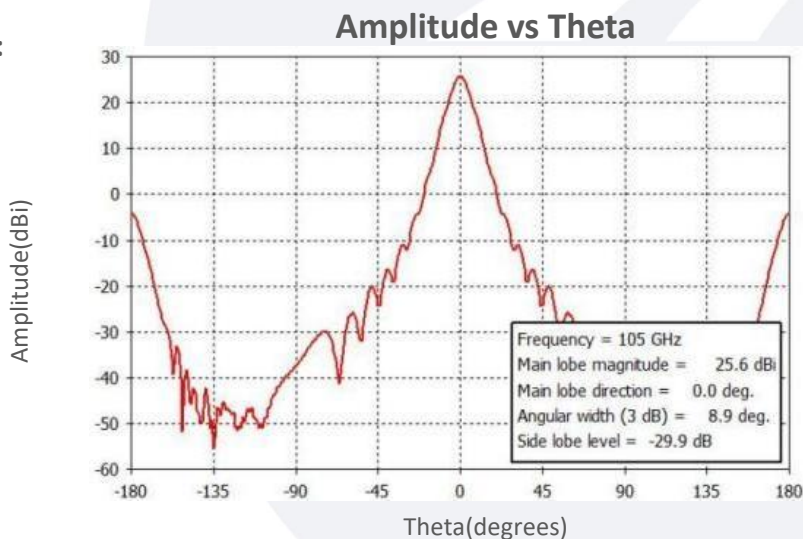
H plane, 100GHz:



E plane, 105GHz:



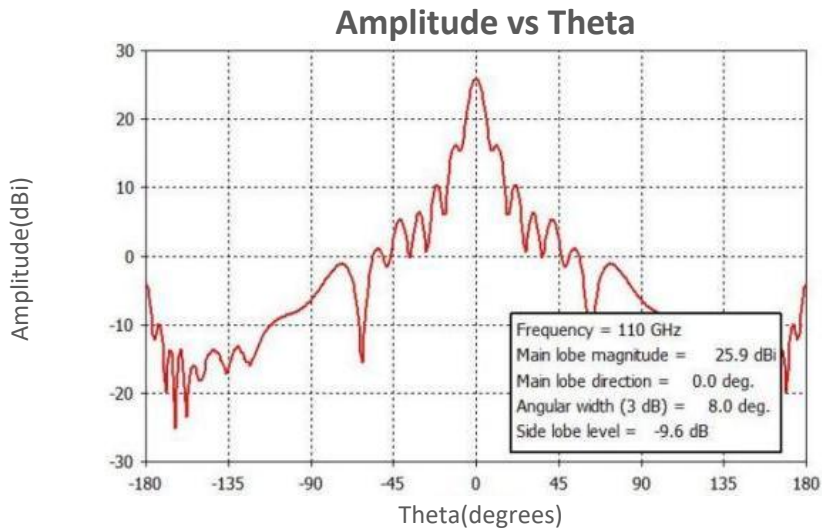
H plane, 105GHz:



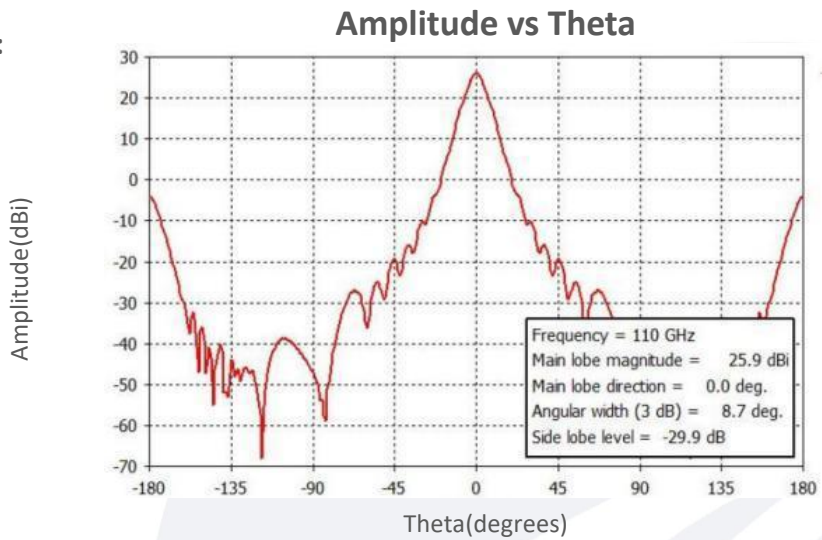
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典型曲线 Typical Performance Data:

E plane, 110GHz:



H plane, 110GHz:



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