

Standard Gain Horn Antenna

WR-6.5/110-170GHz/10dBi Typ, Gain

Model:TL-6SHA10

TL-6SHA10 is a standard gain horn antenna that operates from 110 GHz to 170GHz. The antenna offers 10dBi 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: 10dBi Typ
- Linear Polarization
- Good Impedance Match

Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

电气特性 Electrical Characteristics:

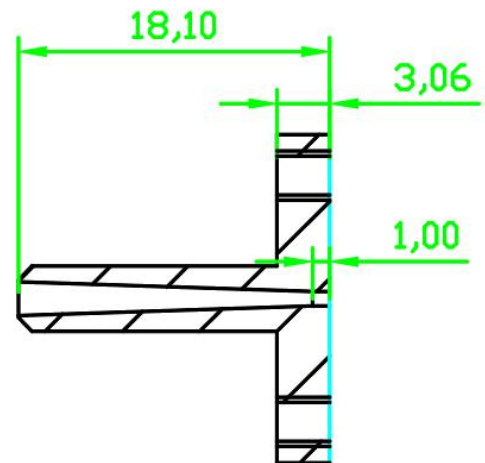
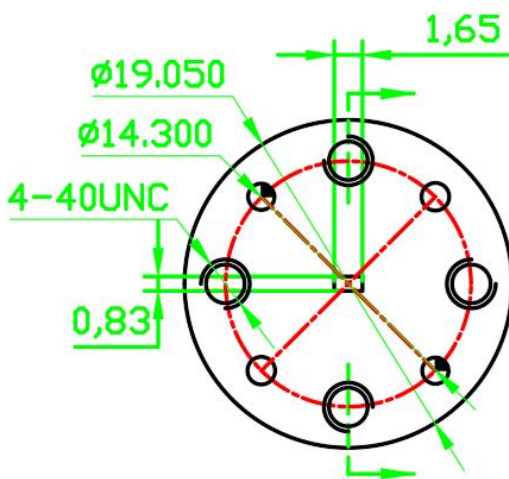
参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency Range	110		170	GHz
增益 Gain		10		dBi
极化方式 Polarization mode	Linear			
驻波 Input VSWR			1.15	:1
输出形式 Output mode	APF4			

环境和机械特性 Environmental And Physical Characteristics:

类型 Description	参数 Parameter	单位 Units
材质 Material	Brass	
波导接口 Waveguide Connectors	WR-6.5/UG-387/U	
尺寸 Size	ø19.05*18.1	mm

外形图 Outline Drawing:

Unit:mm



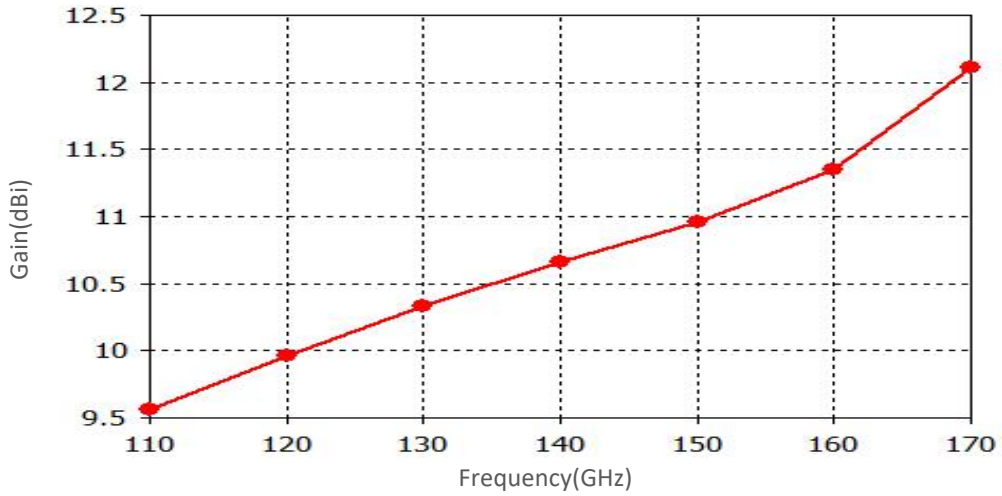
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TL-6SHA10	Standard Gain Horn Antenna, 110-170GHz, Gain: 10dBi Typ.	Rev.1.0

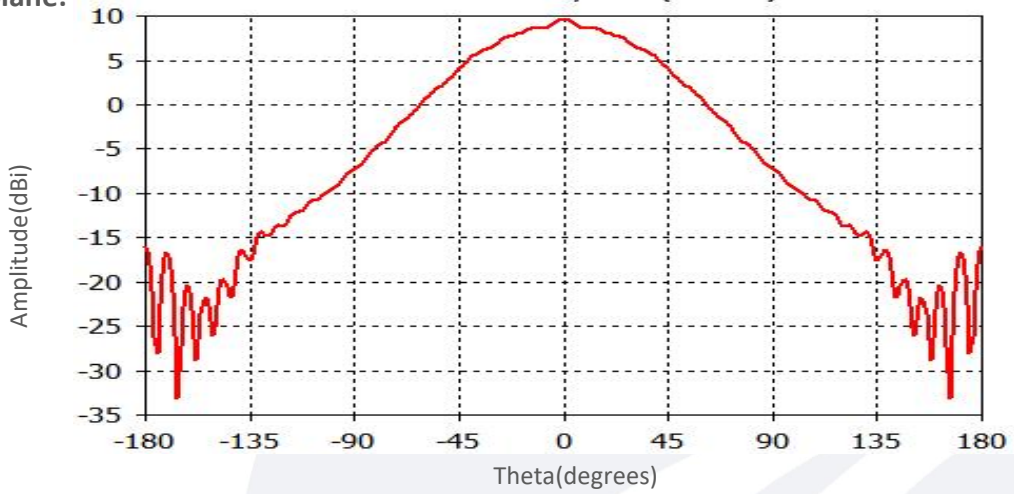
典型曲线 Typical Performance Data:

Gain vs Frequency



110GHz, E plane:

Amplitude vs Theta



110GHz, H plane:

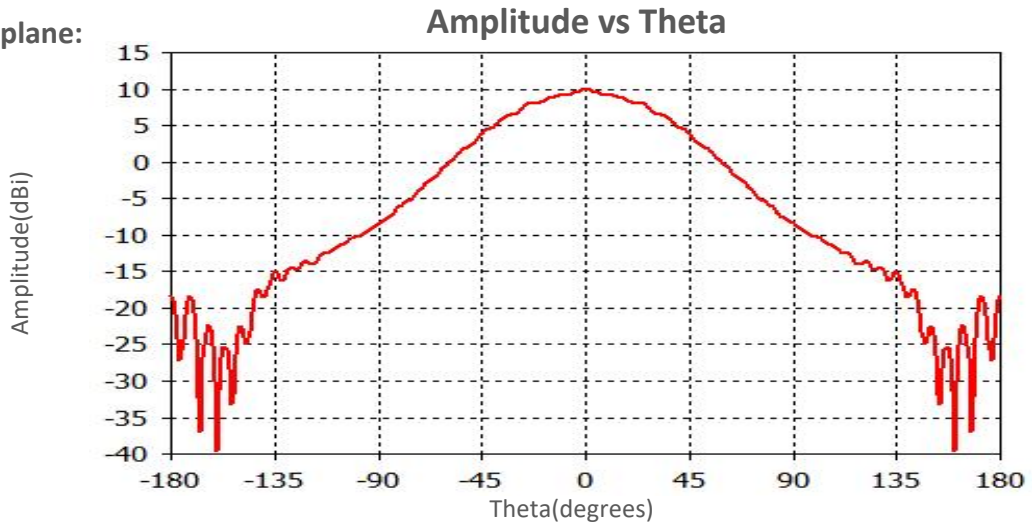
Amplitude vs Theta



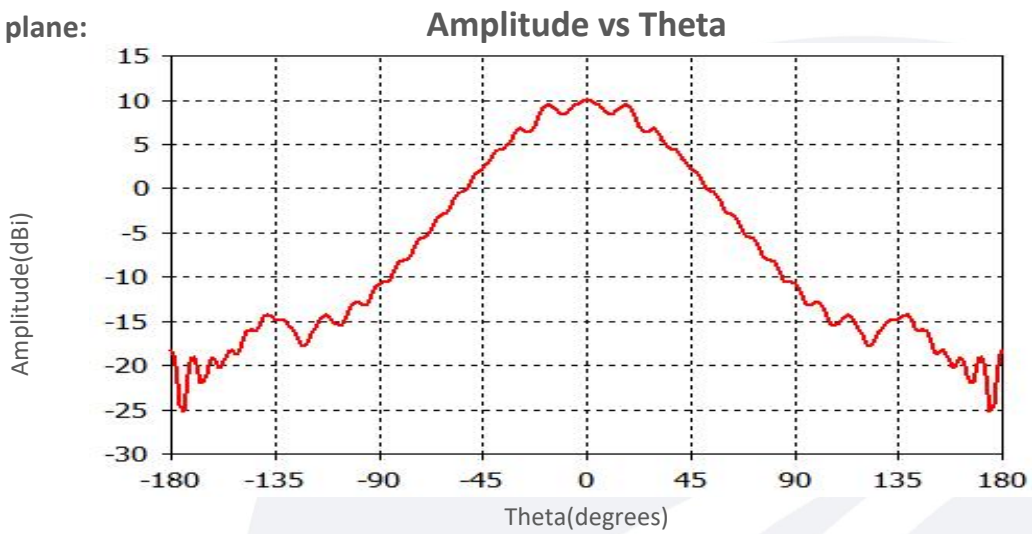
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

典型曲线 Typical Performance Data:

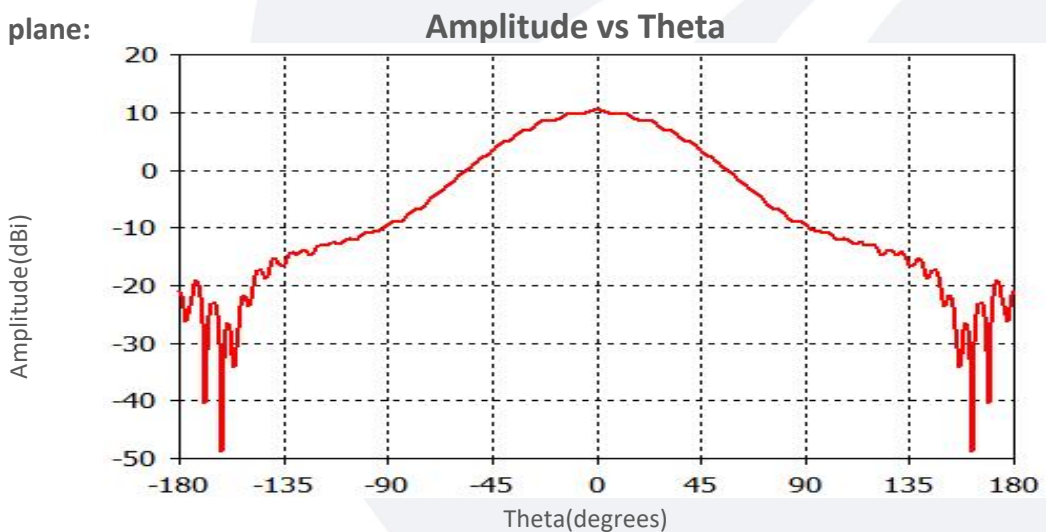
120GHz,E plane:



120GHz,H plane:



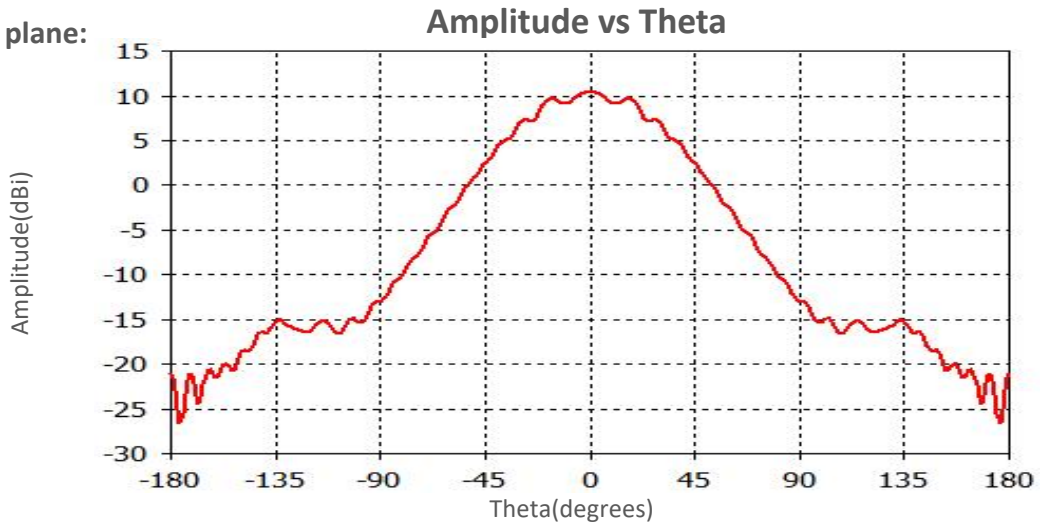
130GHz,E plane:



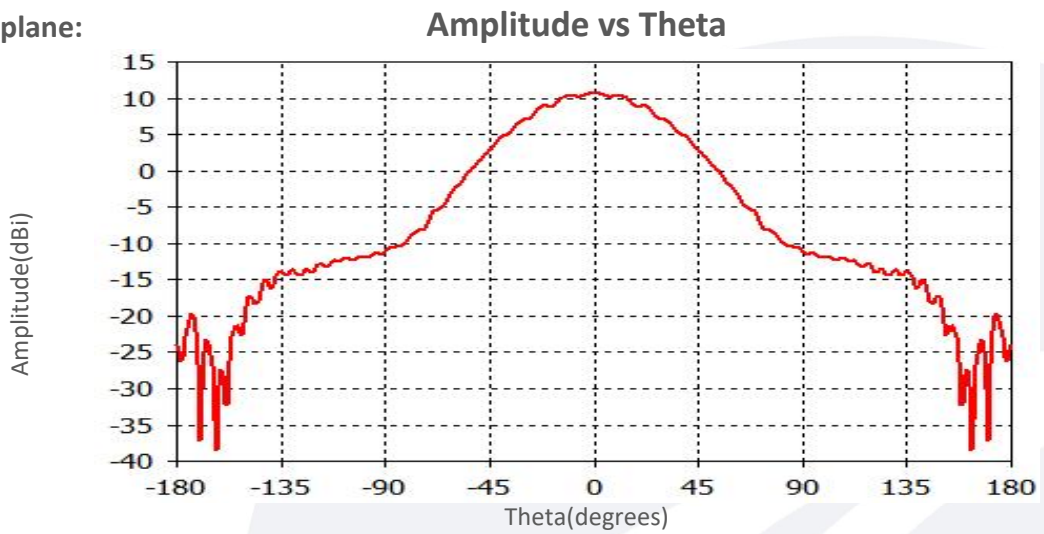
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典型曲线 Typical Performance Data:

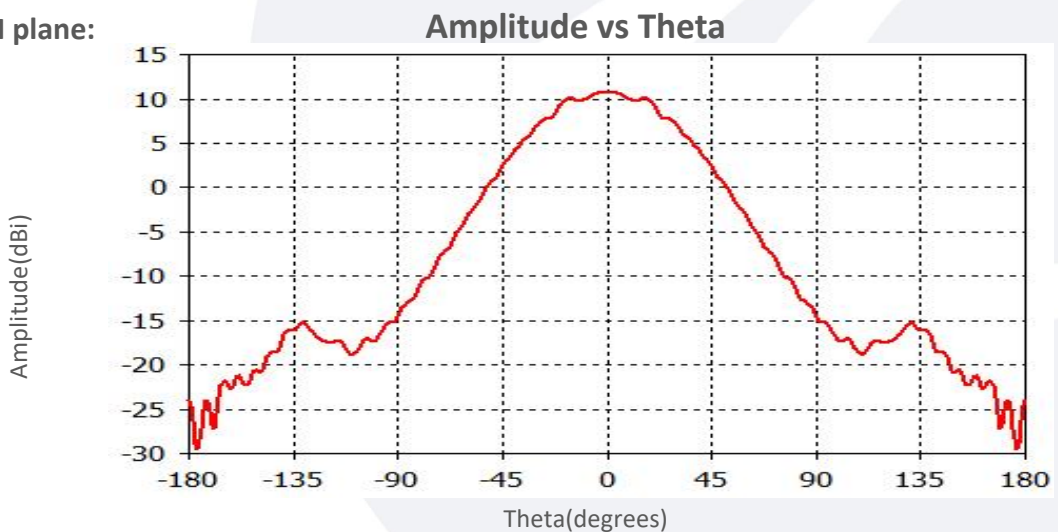
130GHz,H plane:



140GHz,E plane:



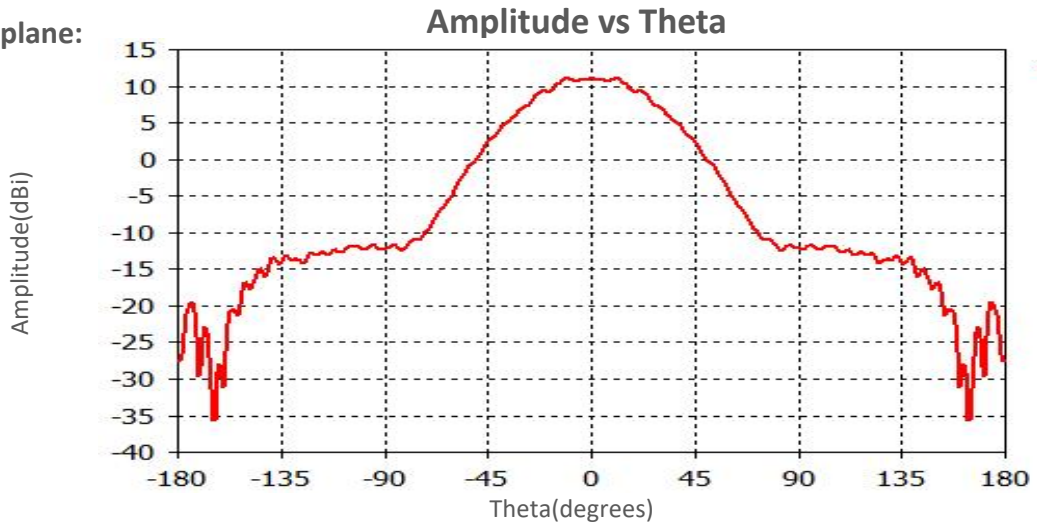
140GHz,H plane:



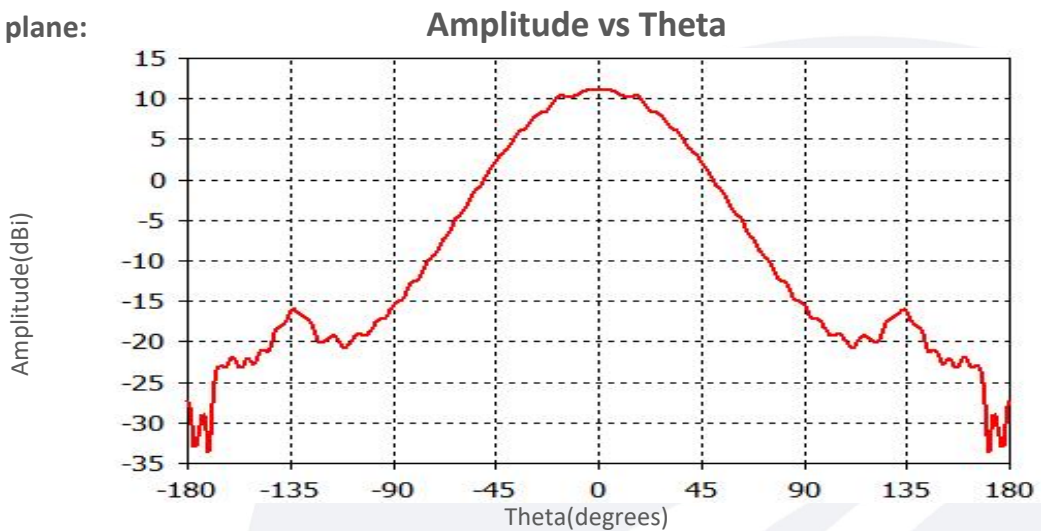
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典型曲线 Typical Performance Data:

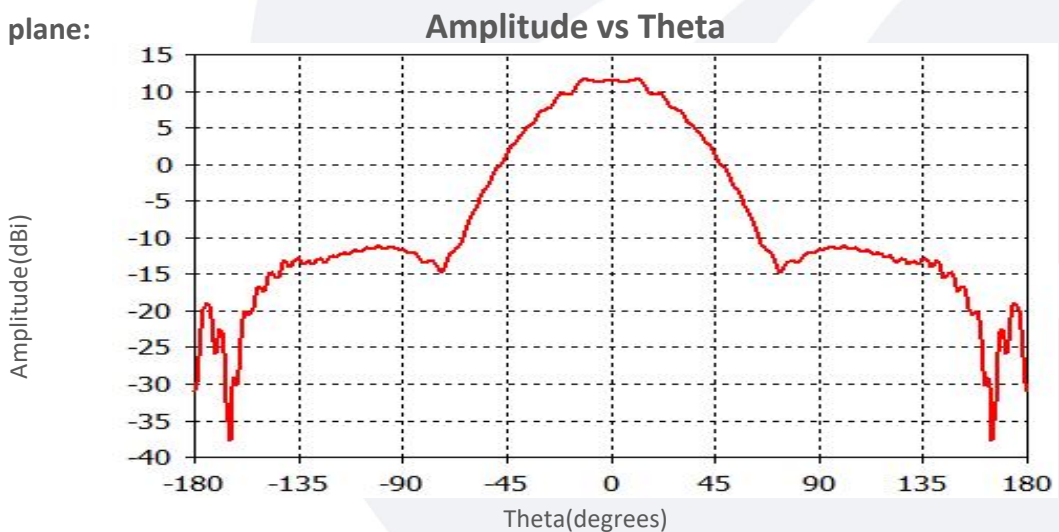
150GHz,E plane:



150GHz,H plane:



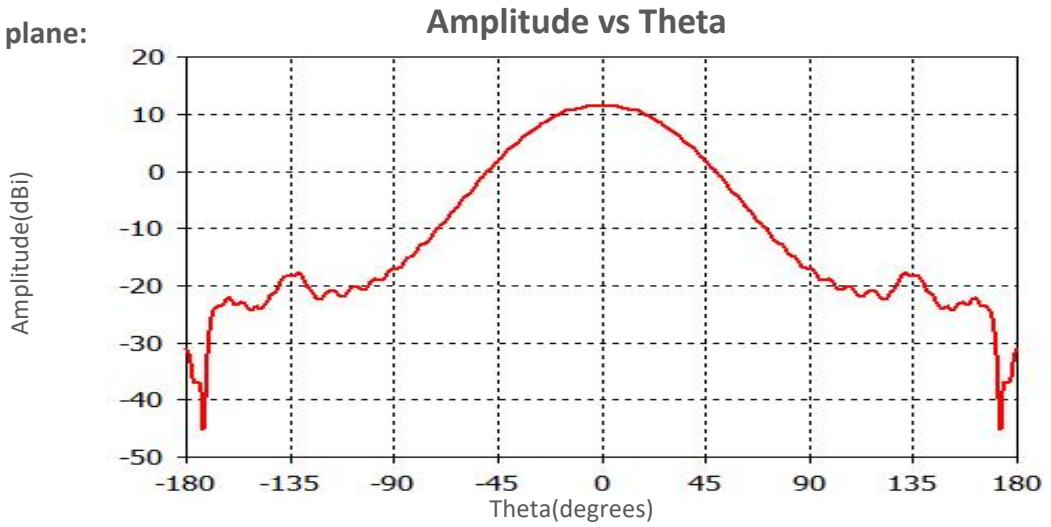
160GHz,E plane:



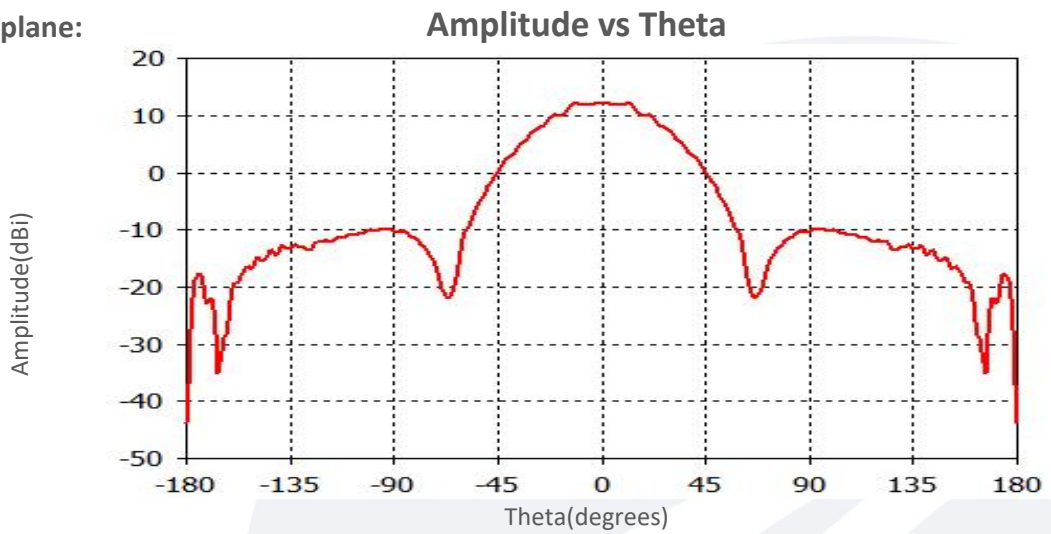
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典型曲线 Typical Performance Data:

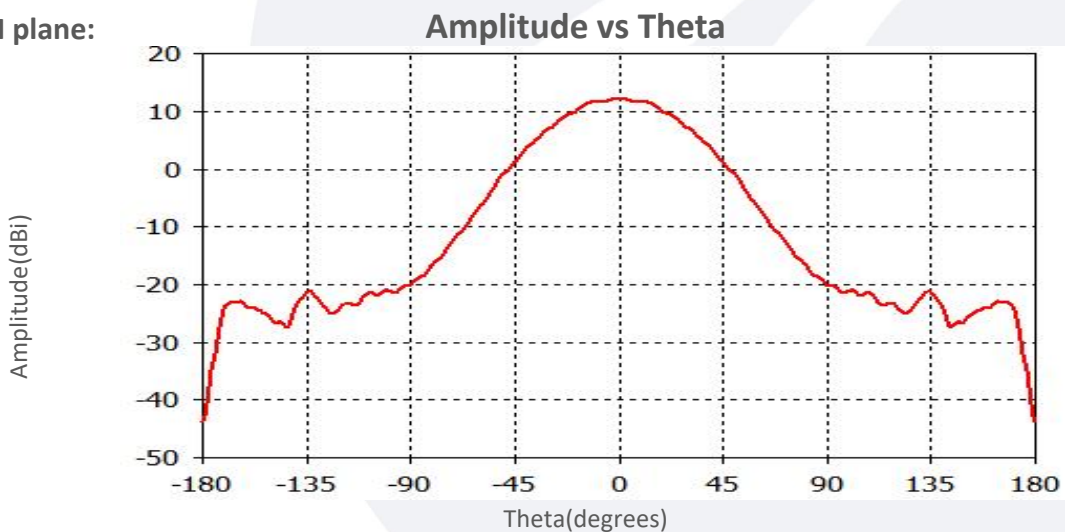
160GHz,H plane:



170GHz,E plane:



170GHz,H plane:



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.