

## Horn Antenna

SMA/8-18GHz/20dBi Typ, Gain

Model:TL-80180HA20S

TL-80180HA20S is a horn antenna that operates from 8 GHz to 18 GHz. The antenna offers 20 dBi nominal gain. The input of this antenna is a coax adapter structure with SMA female. 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 8 to 18 GHz
- Gain: 20dBi Typ
- Good Impedance Match

### Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

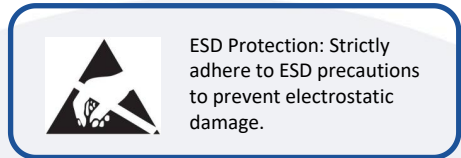
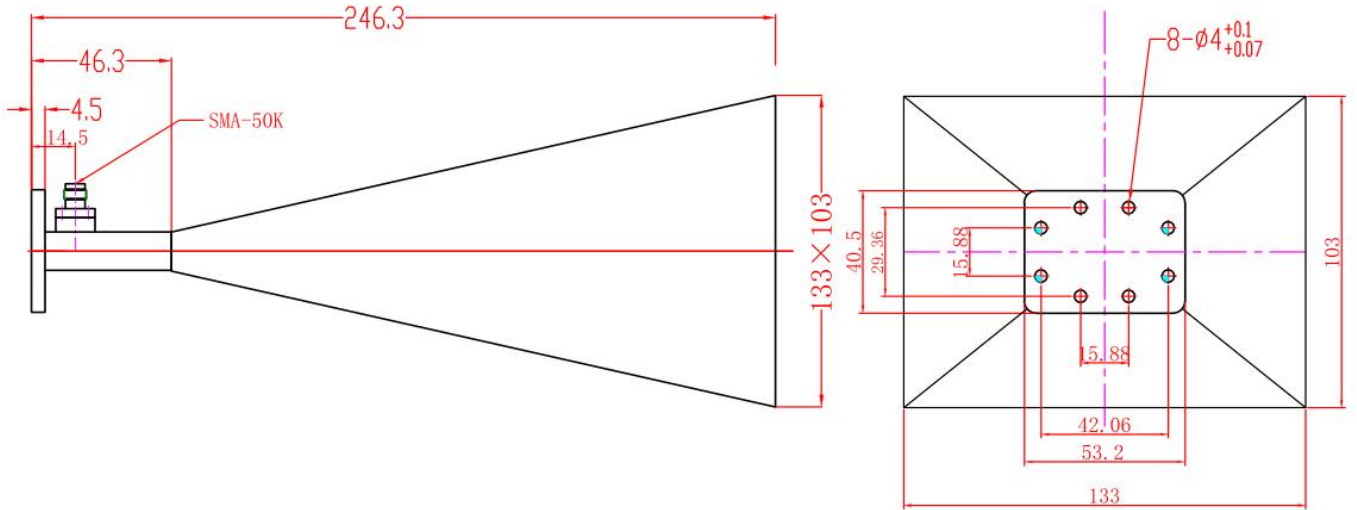
### 电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency Range	8		18	GHz
增益 Gain		20		dBi
驻波 Input VSWR			1.6	:1

### 环境和机械特性 Environmental And Physical Characteristics:

类型 Description	参数 Parameter	单位 Units
材质 Material	Aluminum	
接口 Connectors	SMA Female	
尺寸 Size	243.6*133*103	mm

外形图 Outline Drawing: Unit:mm

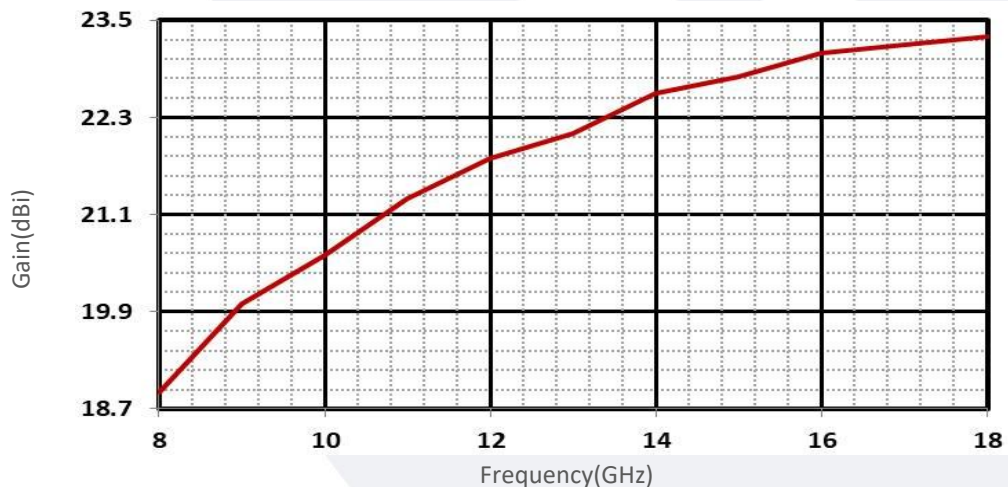


订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TL-80180HA20S	Horn Antenna, 8-18GHz, Gain: 20dBi Typ.	Rev.1.1

典型曲线 Typical Performance Data:

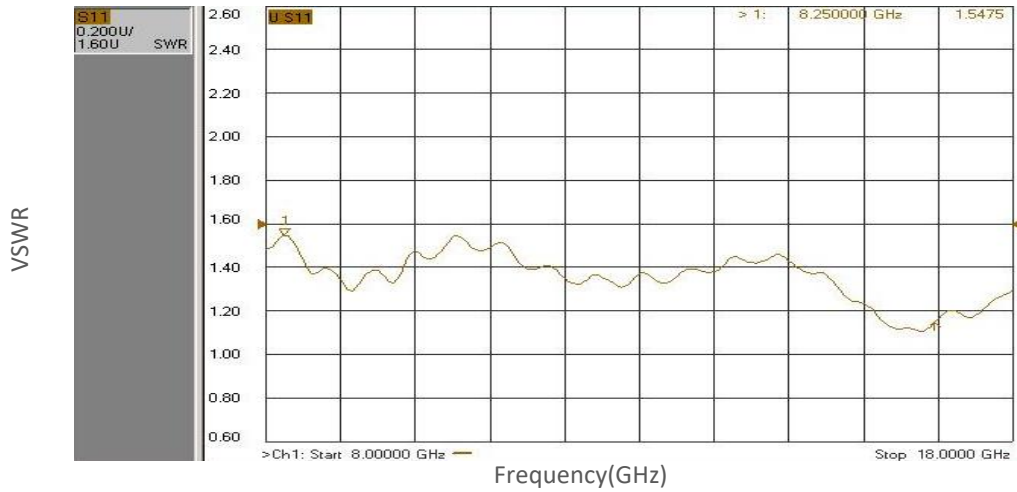
Gain vs Frequency



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.

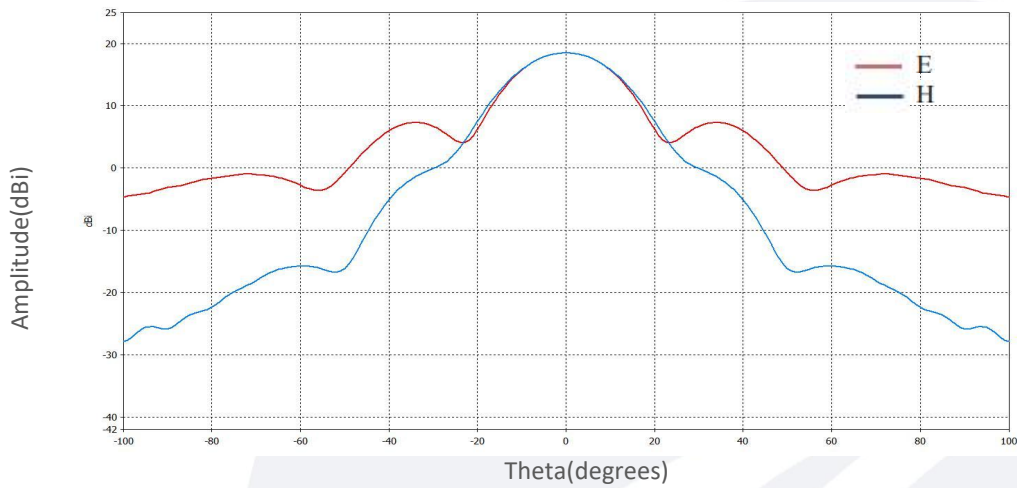
**典型曲线 Typical Performance Data:**

**VSWR vs Frequency**



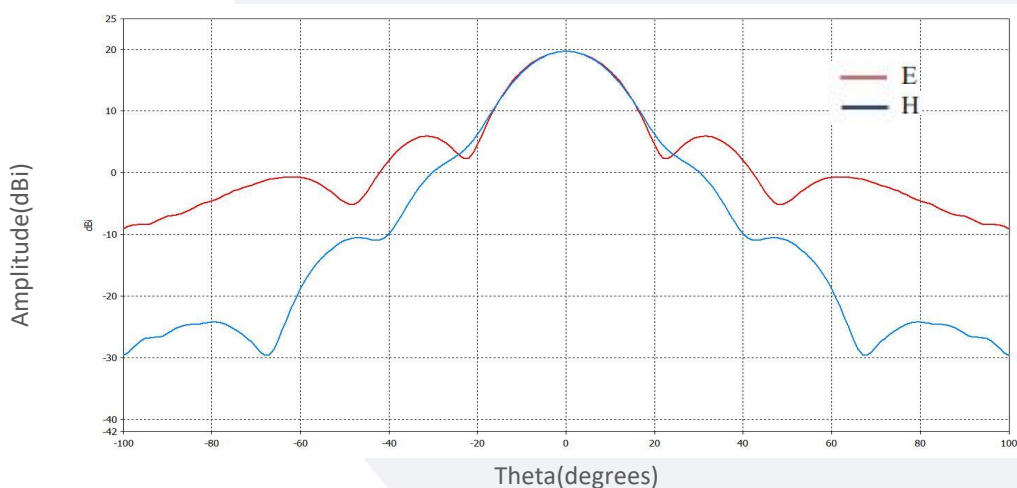
**8GHz:**

**Amplitude vs Theta@Gain=18.5dB**



**9GHz:**

**Amplitude vs Theta@Gain=19.7dB**

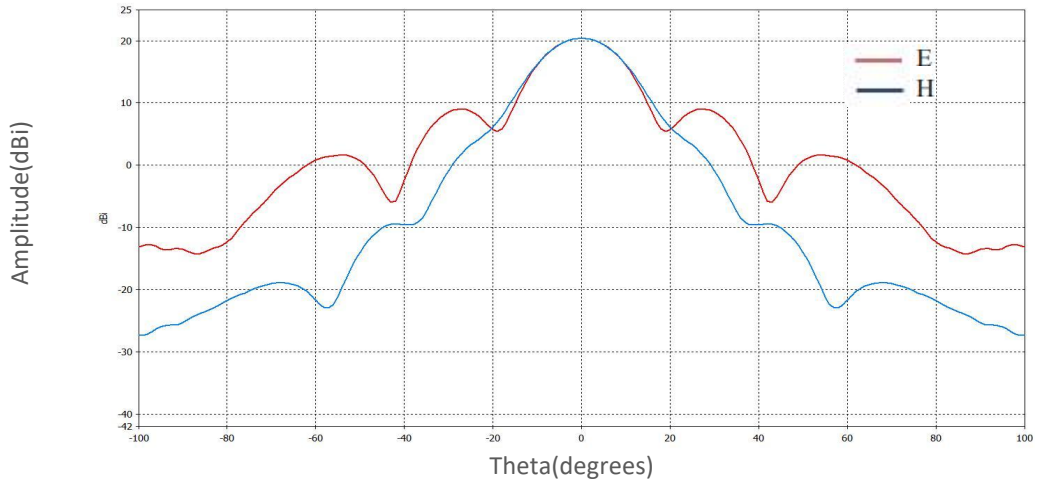


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**典型曲线 Typical Performance Data:**

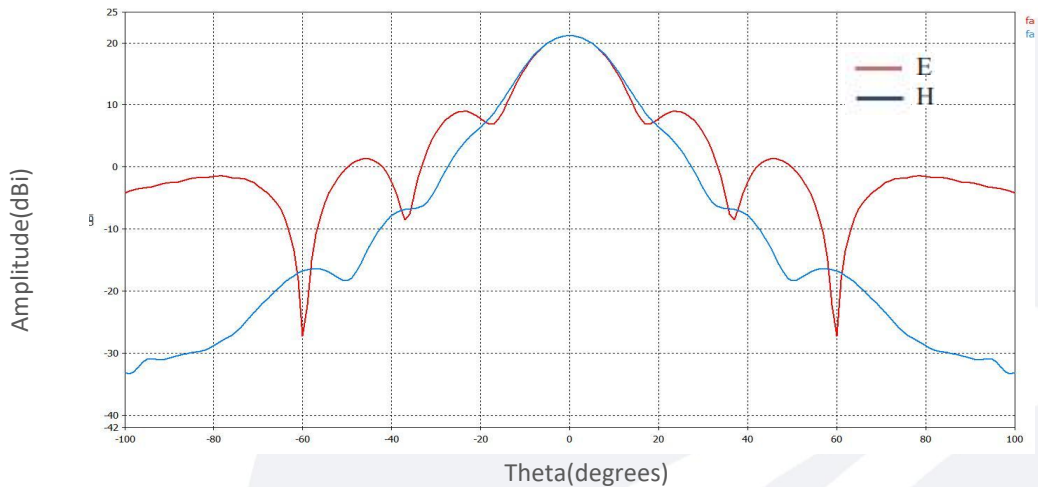
10GHz:

**Amplitude vs Theta@Gain=20.4dB**



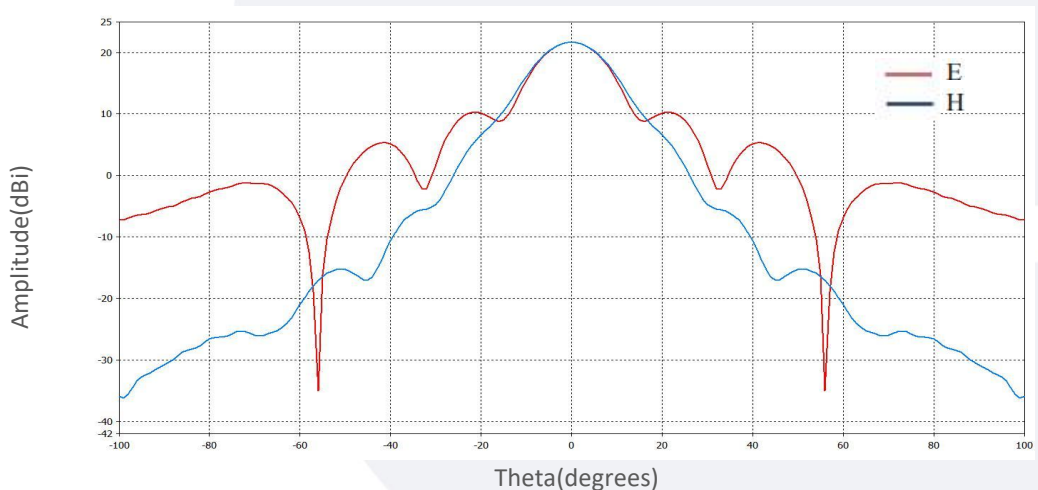
11GHz:

**Amplitude vs Theta@Gain=21.2dB**



12GHz:

**Amplitude vs Theta@Gain=21.6dB**

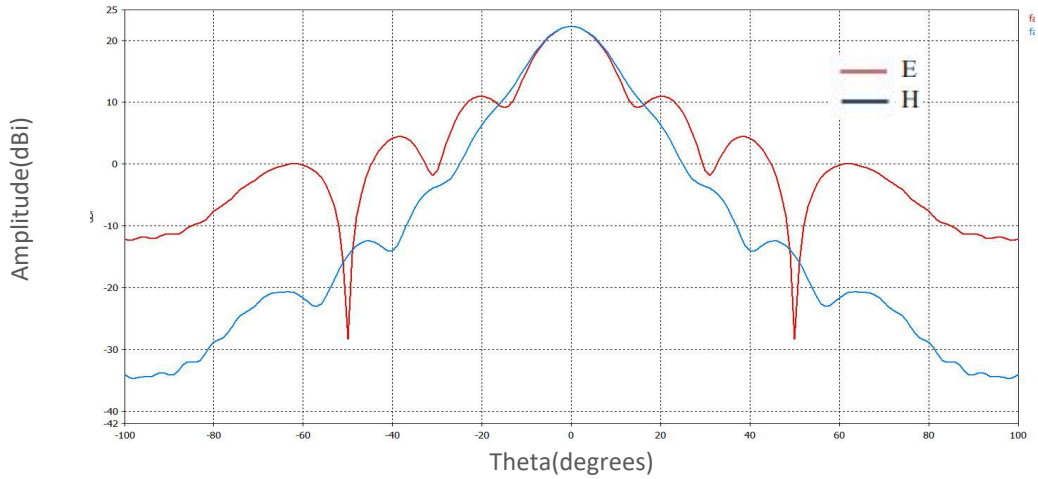


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**典型曲线 Typical Performance Data:**

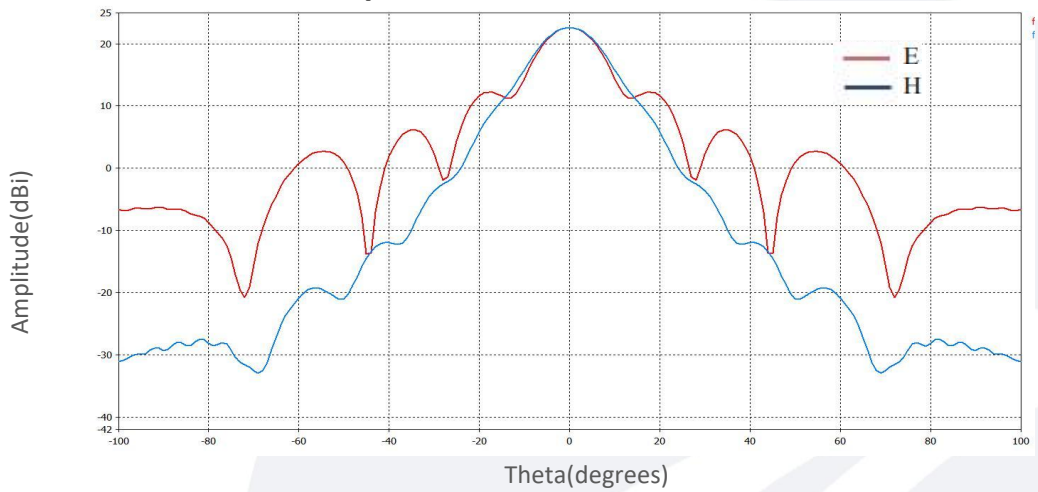
13GHz:

**Amplitude vs Theta@Gain=22.2dB**



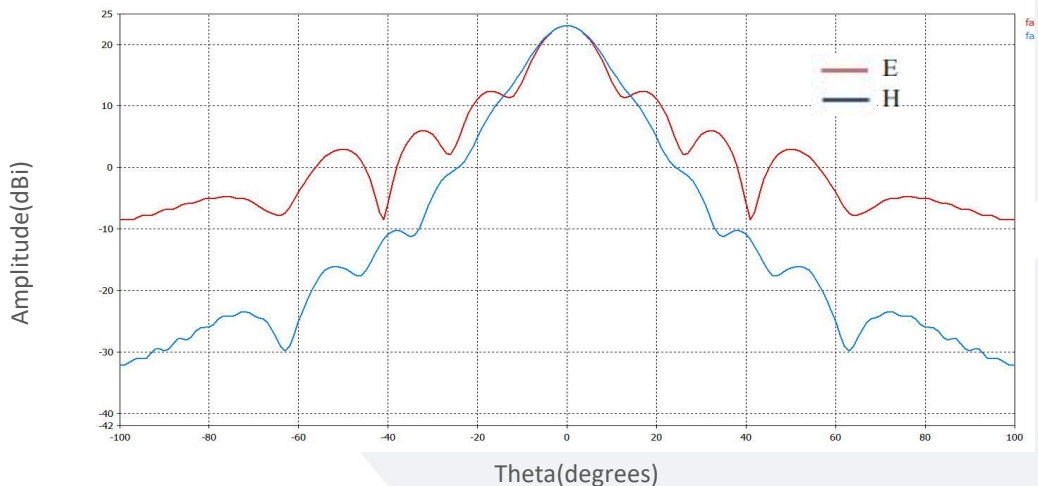
14GHz:

**Amplitude vs Theta@Gain=22.6dB**



15GHz:

**Amplitude vs Theta@Gain=23dB**

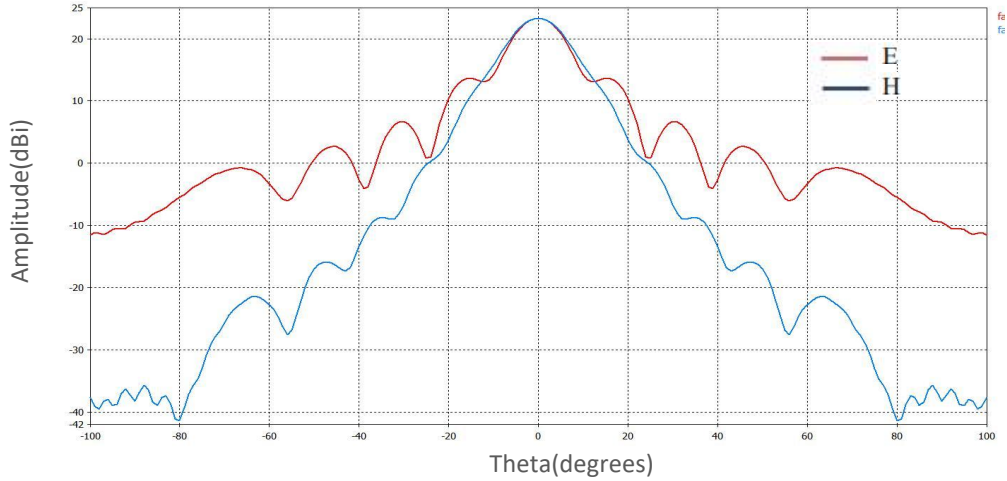


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**典型曲线 Typical Performance Data:**

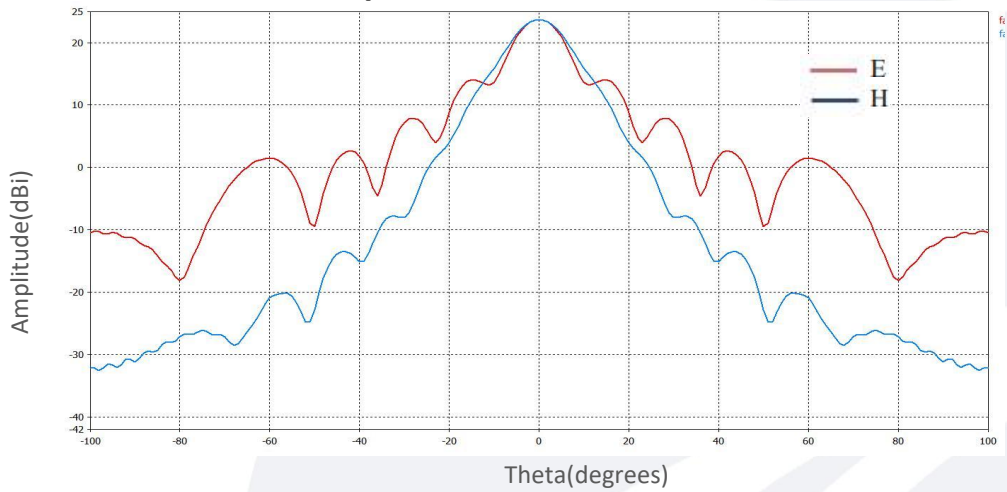
16GHz:

**Amplitude vs Theta@Gain=23.3dB**



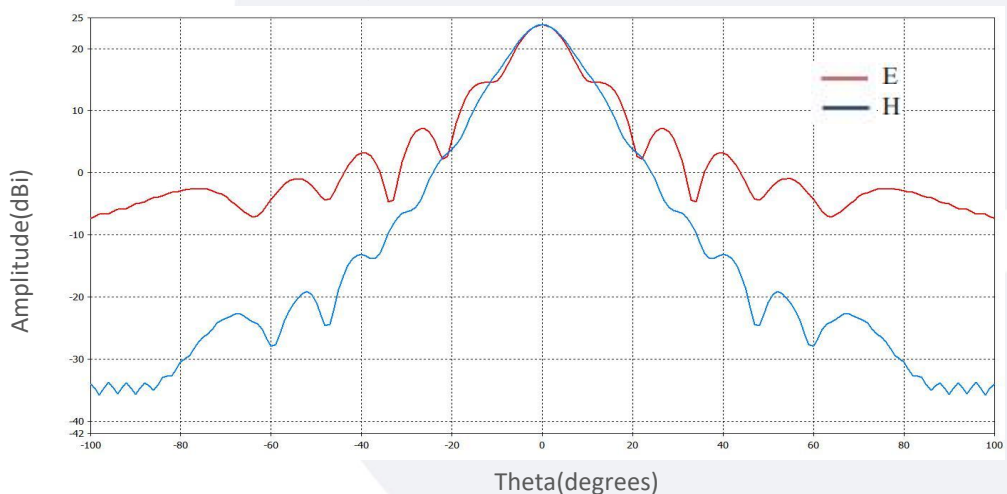
17GHz:

**Amplitude vs Theta@Gain=23.7dB**



18GHz:

**Amplitude vs Theta@Gain=23.8dB**



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