

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

Electrical Characteristics:

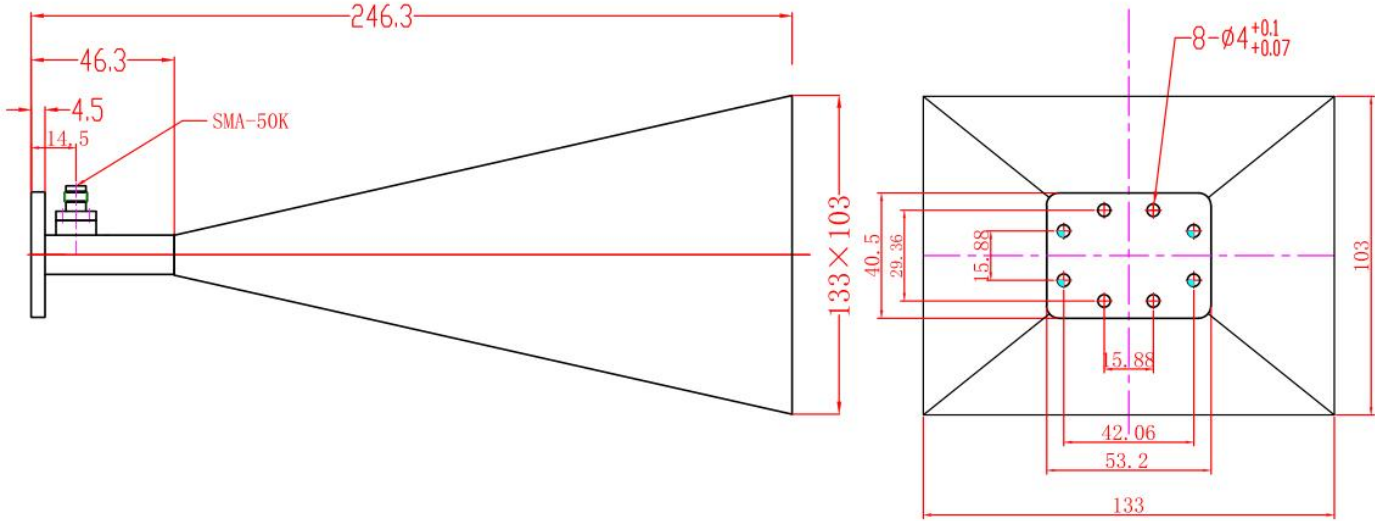
Parameter	Min	Typ	Max	Units
Frequency Range	8		18	GHz
Gain		20		dBi
Input VSWR			1.6	:1

Environmental And Physical Characteristics:

Description	Parameter	Units
Material	Aluminum	
Connectors	SMA Female	
Size	243.6*133*103	mm

Outline Drawing:

Unit:mm



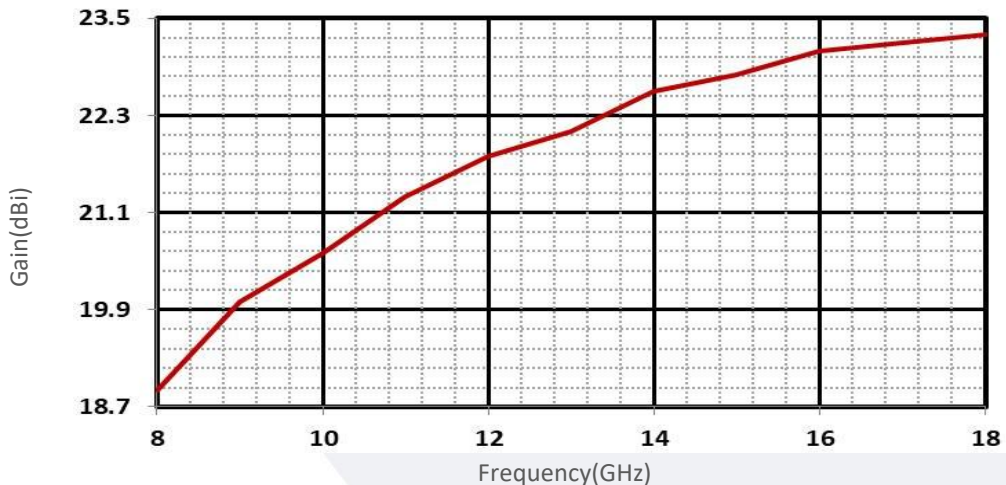
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

Base Number	Description	Revision
TL-80180HA20S	Horn Antenna, 8-18GHz, Gain: 20dBi Typ.	Rev.1.1

典型曲线 Typical Performance Data:

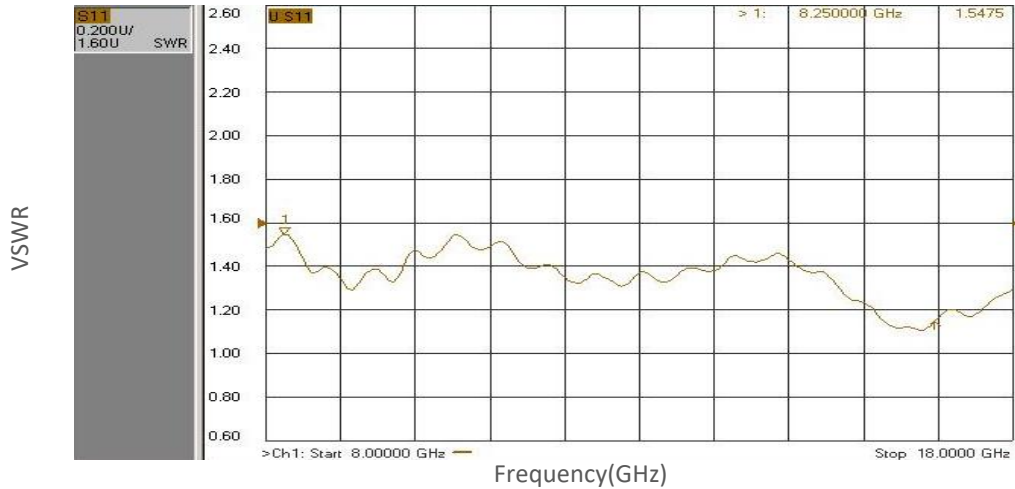
Gain vs Frequency



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.

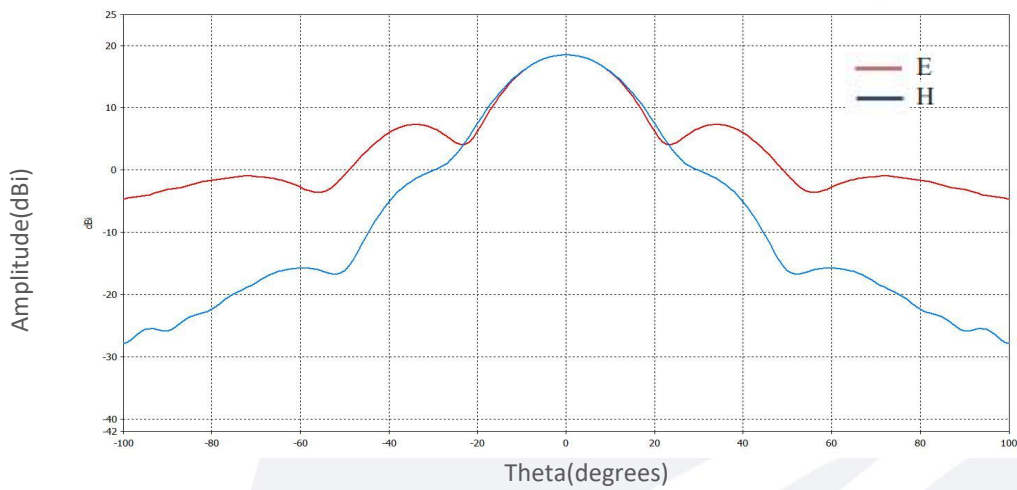
Typical Performance Data:

VSWR vs Frequency



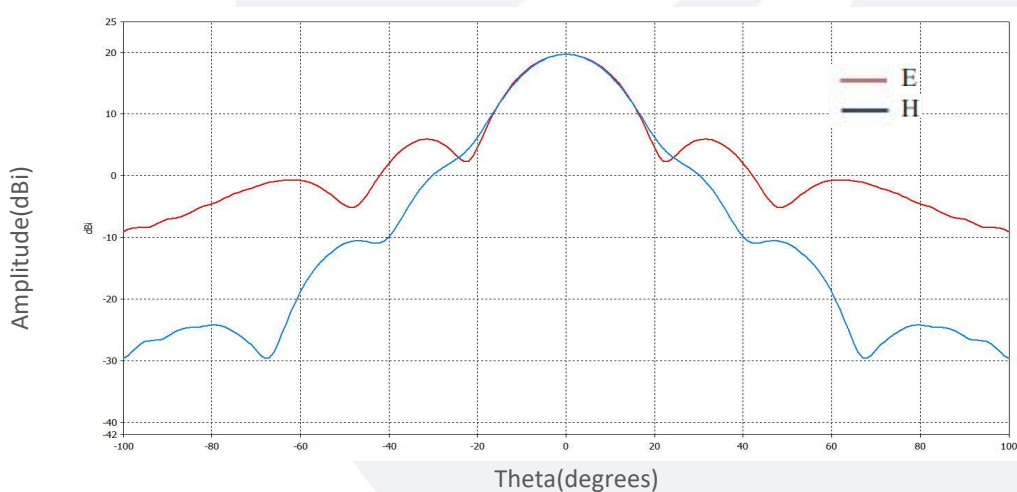
8GHz:

Amplitude vs Theta@Gain=18.5dB



9GHz:

Amplitude vs Theta@Gain=19.7dB

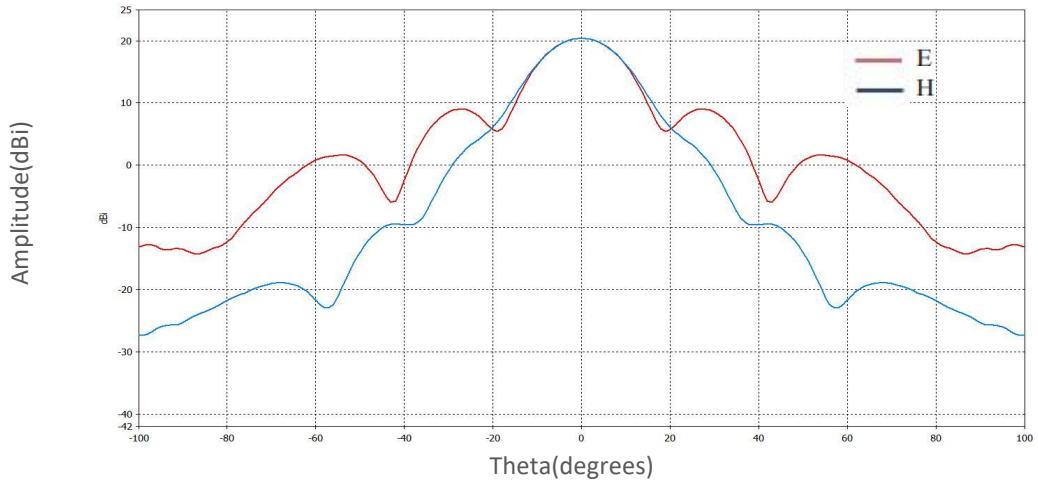


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Typical Performance Data:

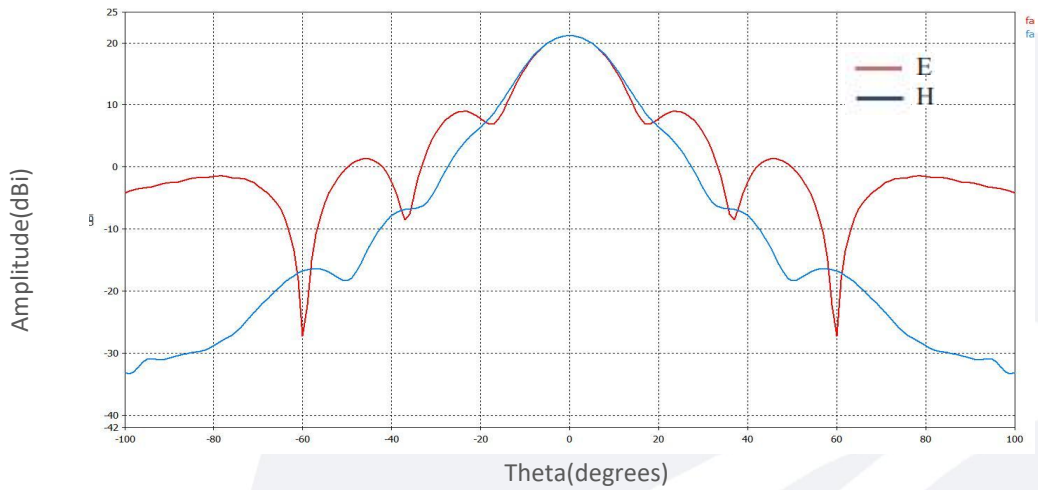
10GHz:

Amplitude vs Theta@Gain=20.4dB



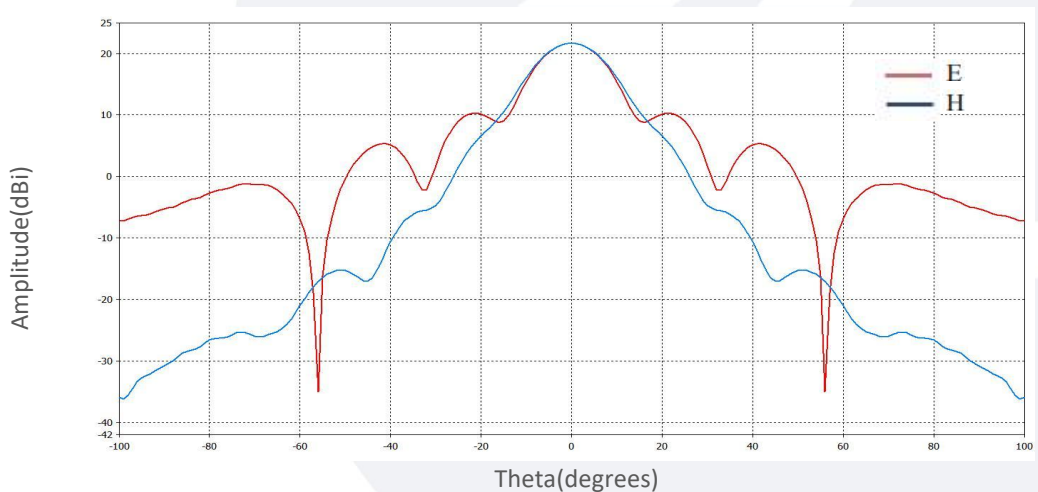
11GHz:

Amplitude vs Theta@Gain=21.2dB



12GHz:

Amplitude vs Theta@Gain=21.6dB

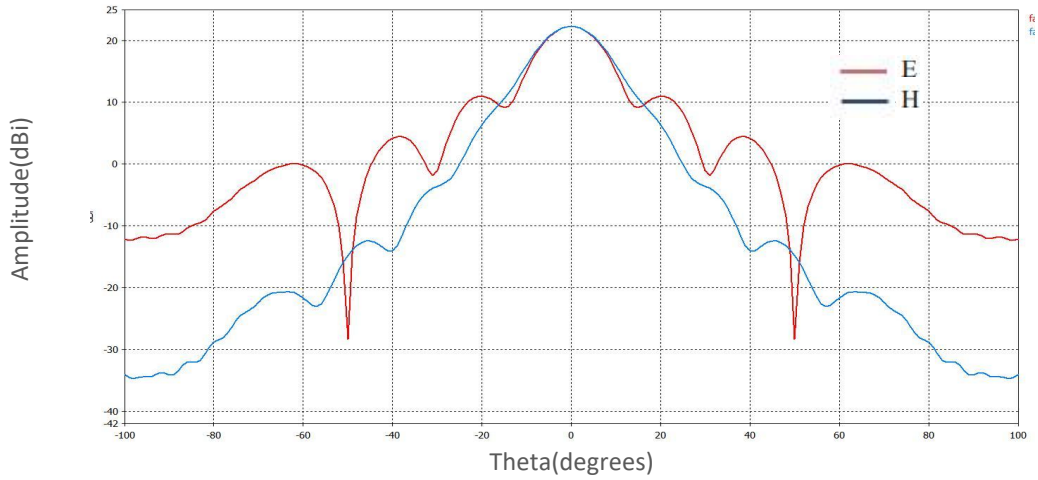


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Typical Performance Data:

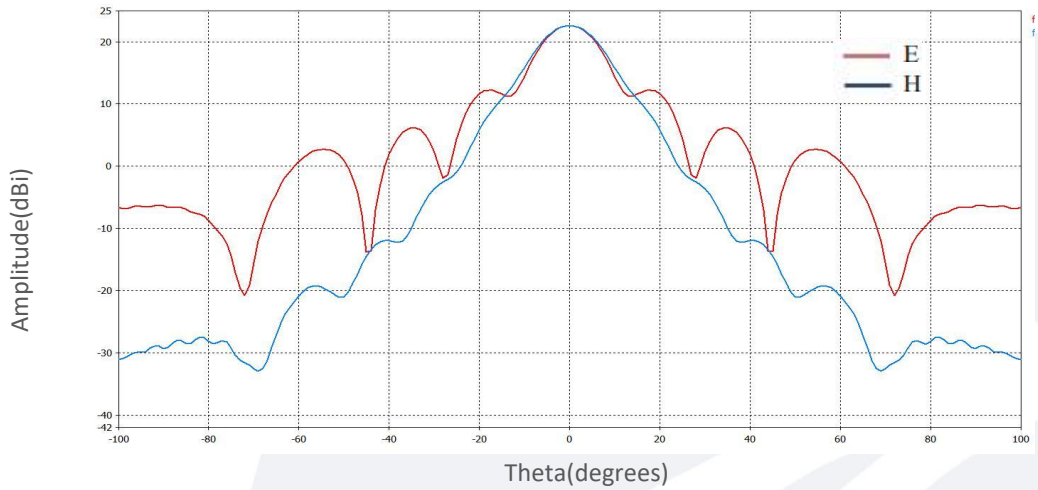
13GHz:

Amplitude vs Theta@Gain=22.2dB



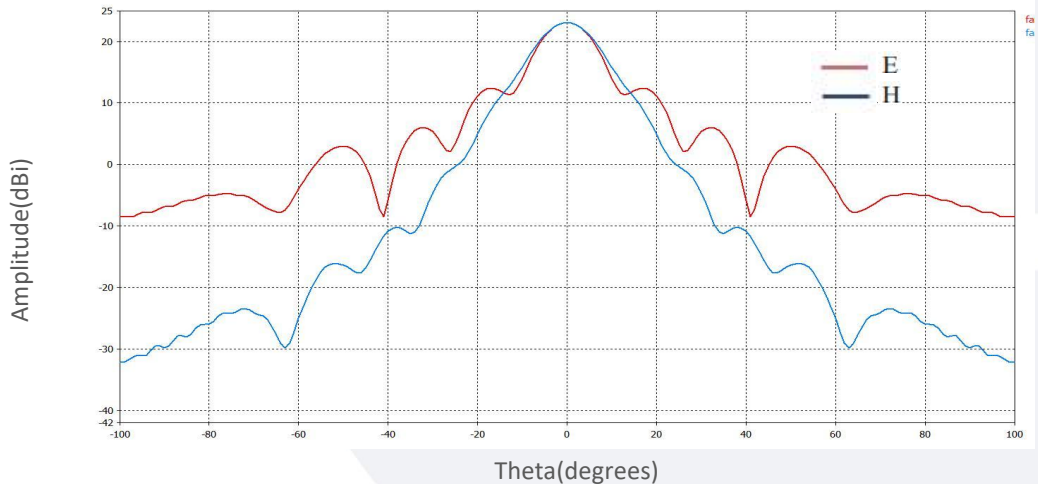
14GHz:

Amplitude vs Theta@Gain=22.6dB



15GHz:

Amplitude vs Theta@Gain=23dB

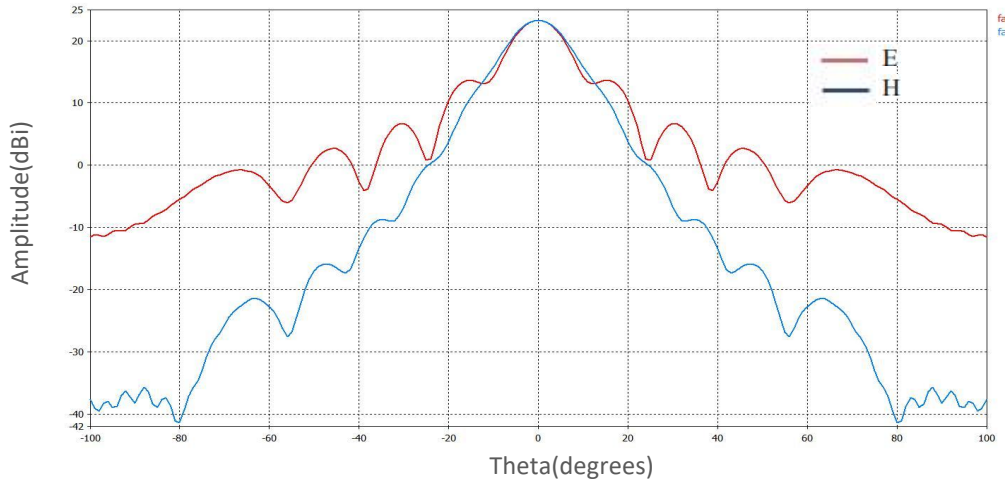


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Typical Performance Data:

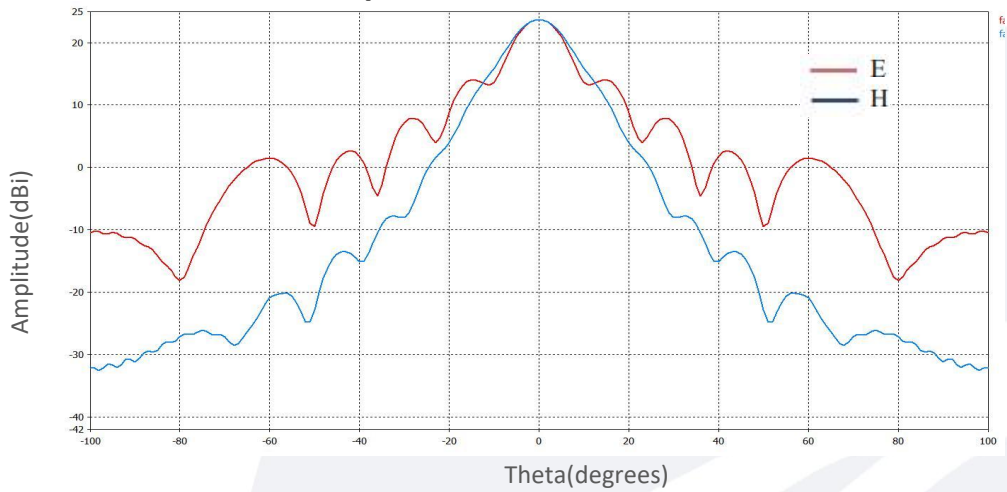
16GHz:

Amplitude vs Theta@Gain=23.3dB



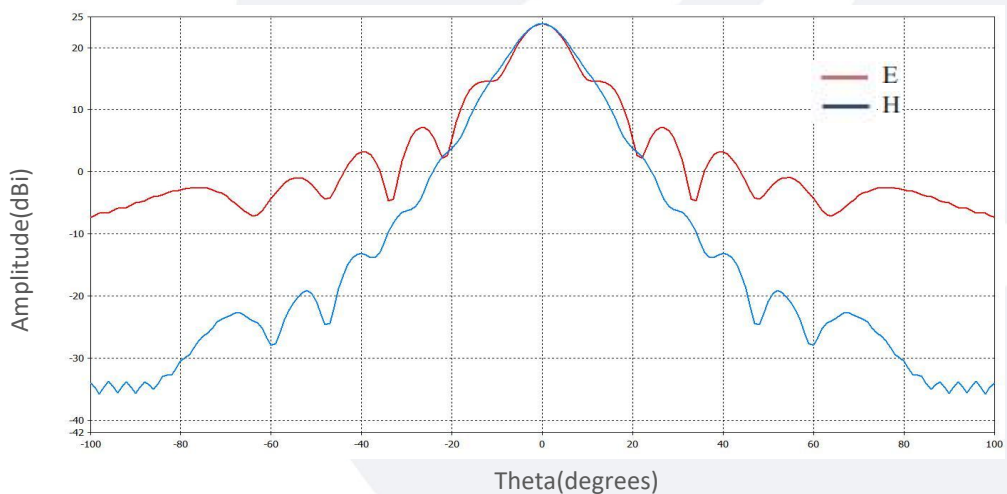
17GHz:

Amplitude vs Theta@Gain=23.7dB



18GHz:

Amplitude vs Theta@Gain=23.8dB



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