

## Broadband Horn Antenna

2-18GHz/15dBi Typ, Gain/N-50K

Model:TL-20180HA21N

### Features:

- Operating Frequency 2 to 18 GHz
- Coaxial Connector for RF Input
- Linear Polarization
- Good Impedance Match

### Applications:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

### 电气特性 Electrical Characteristics:

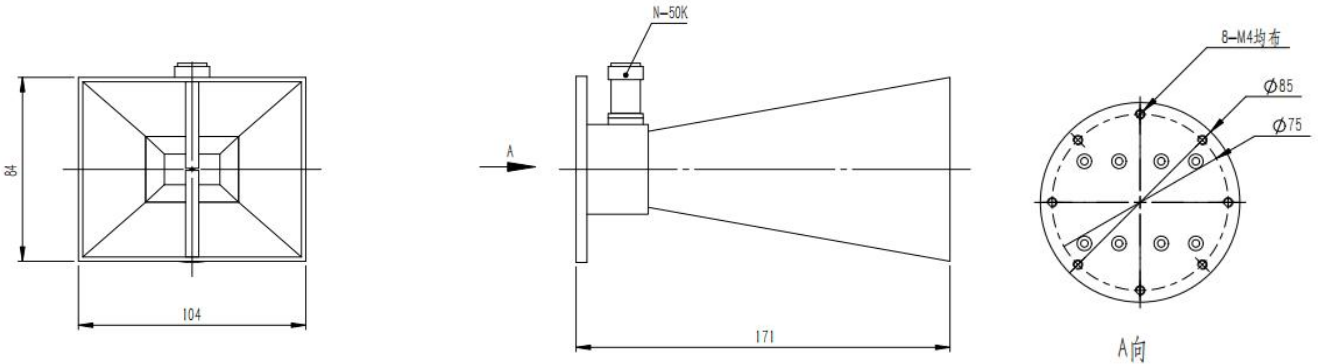
参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency Range	2		18	GHz
增益 Gain	7.5	15	21	dBi
驻波 Input VSWR			2.5	:1
波束宽度 Antenna Beamwidth	E:14.3°-84.6°;H:10.4°-69.7°			dB/m

### 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	Aluminium	
接口 Connectors	N-50K	
尺寸 Size	104*84*171	mm

**外形图 Outline Drawing:**

Unit:mm

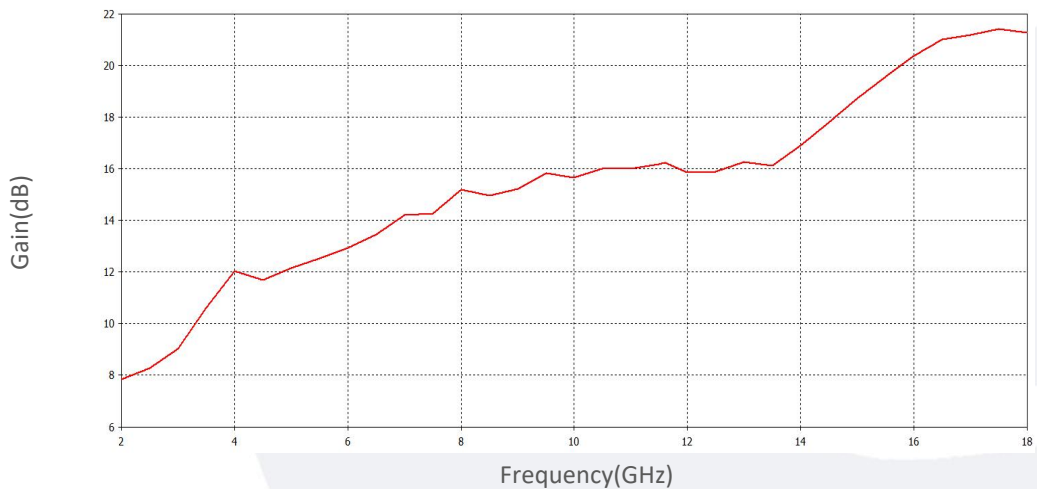


**订货信息 Ordering Information:**

标准型号 Base Number	描述 Description	版本号 Revision
TL-20180HA21N	Broadband Horn Antenna, 2-18GHz, Gain: 15dBi Typ.	Rev.1.1

**典型曲线 Typical Performance Data:**

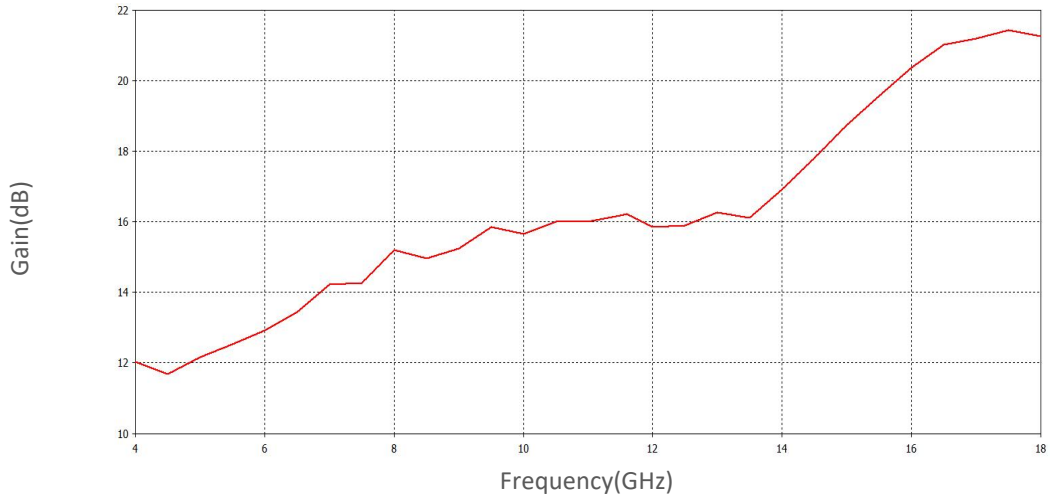
**Gain vs Frequency**



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.

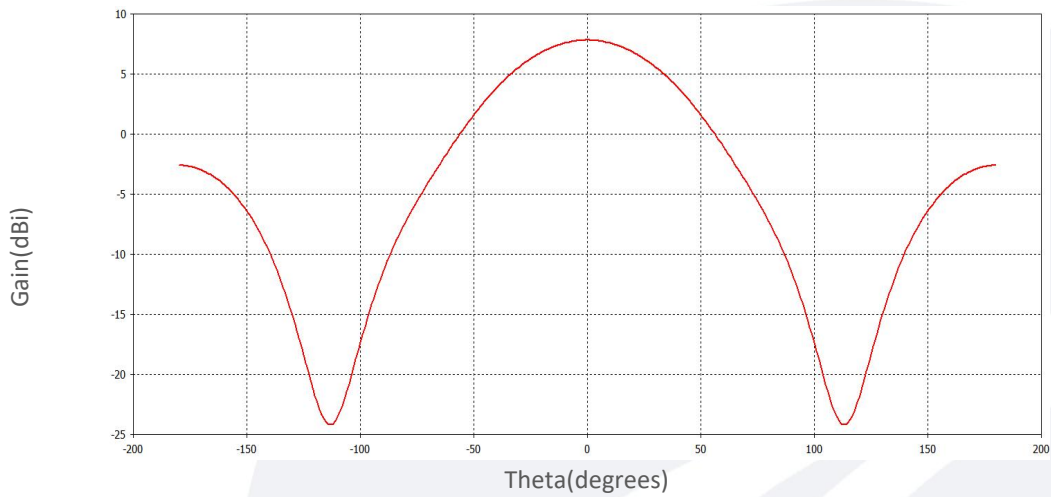
**典型曲线 Typical Performance Data:**

**Gain vs Frequency**



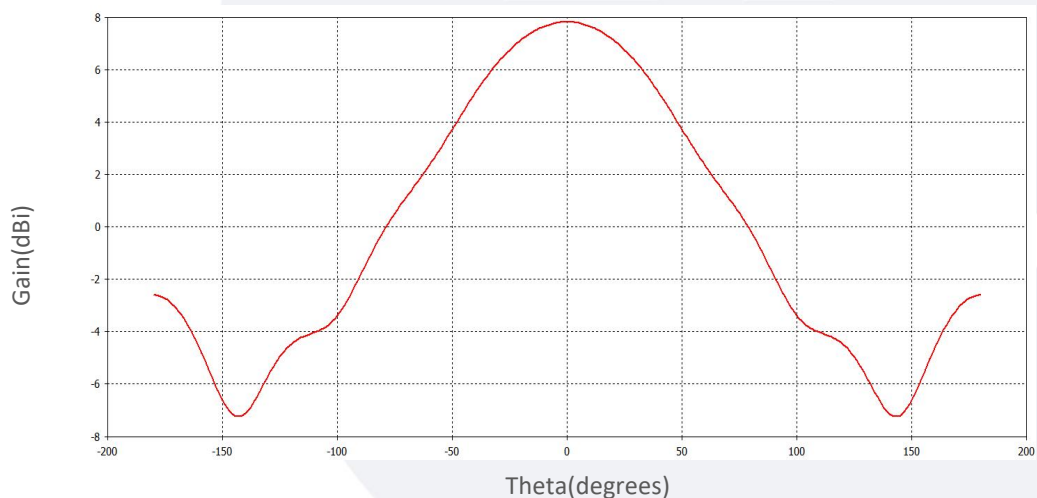
**2GHz,H:**

**Gain vs Theta**



**2GHz,E:**

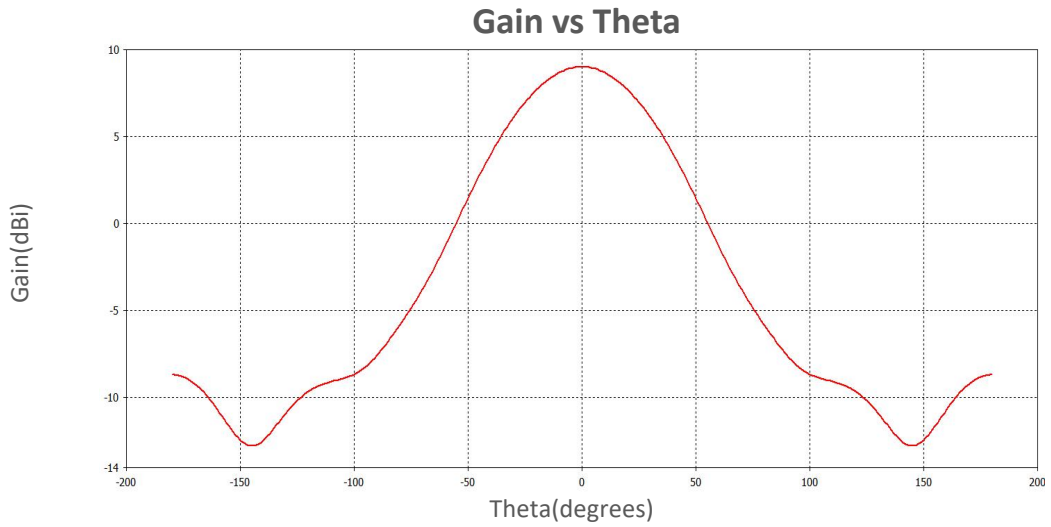
**Gain vs Theta**



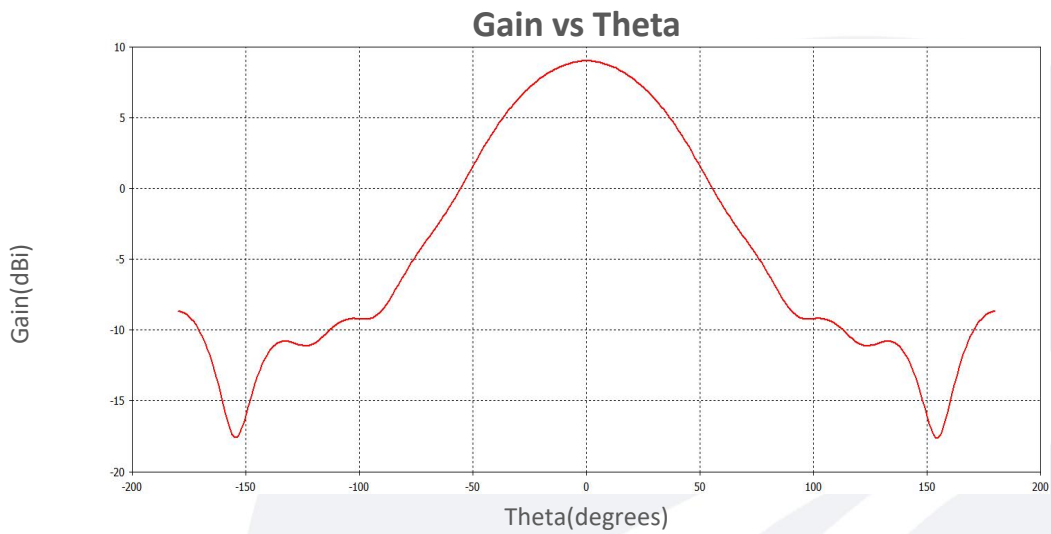
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**典型曲线 Typical Performance Data:**

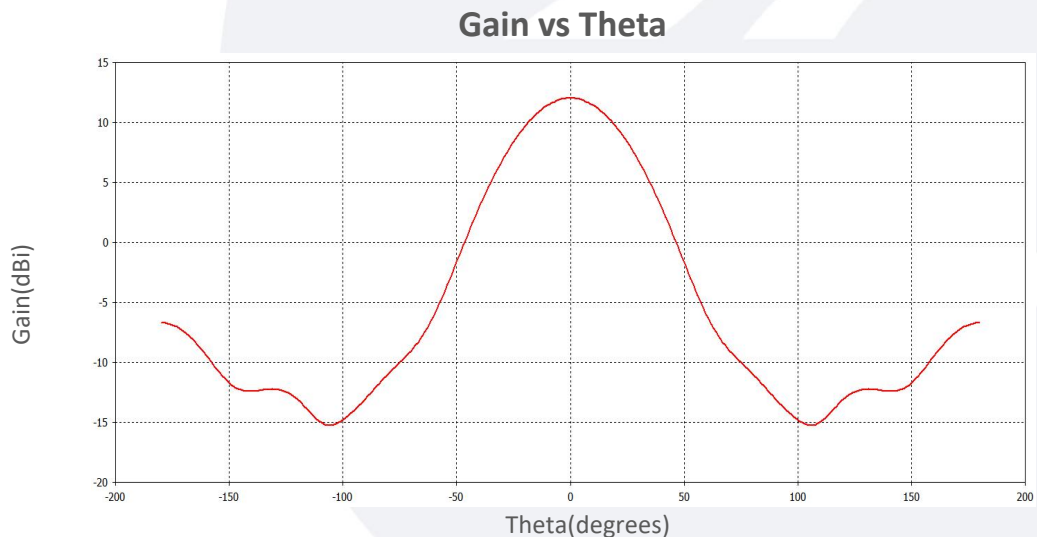
3GHz,H:



3GHz,E:



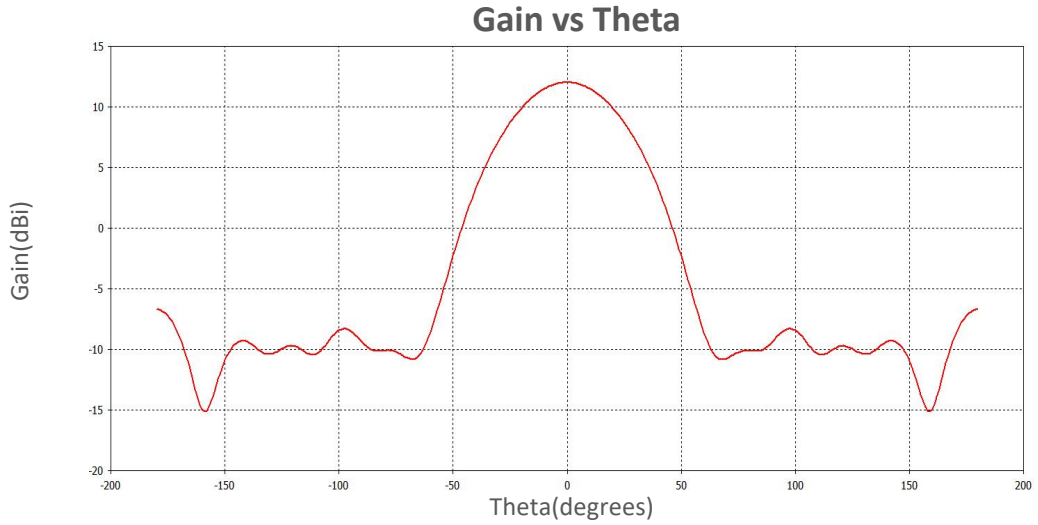
4GHz,H:



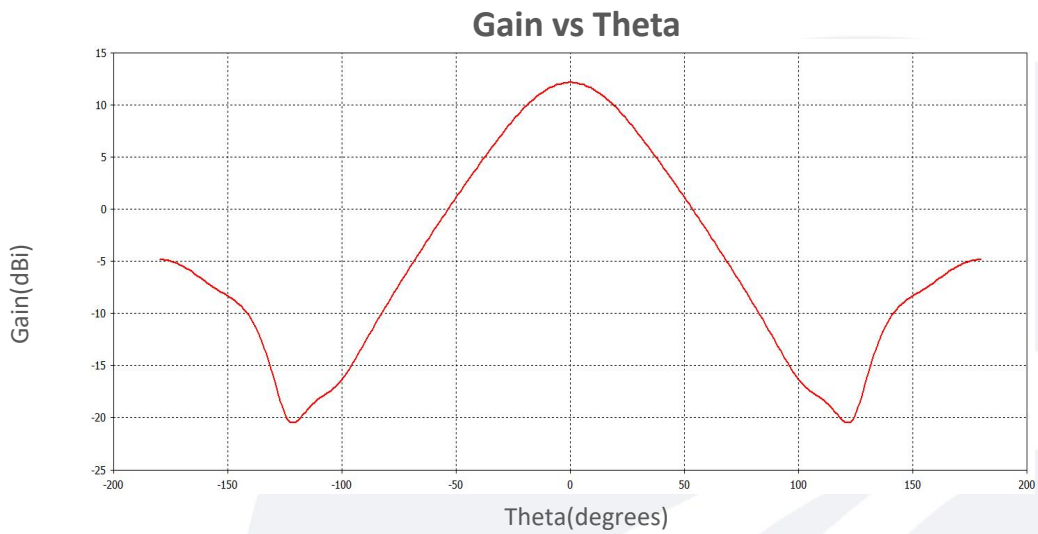
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**典型曲线 Typical Performance Data:**

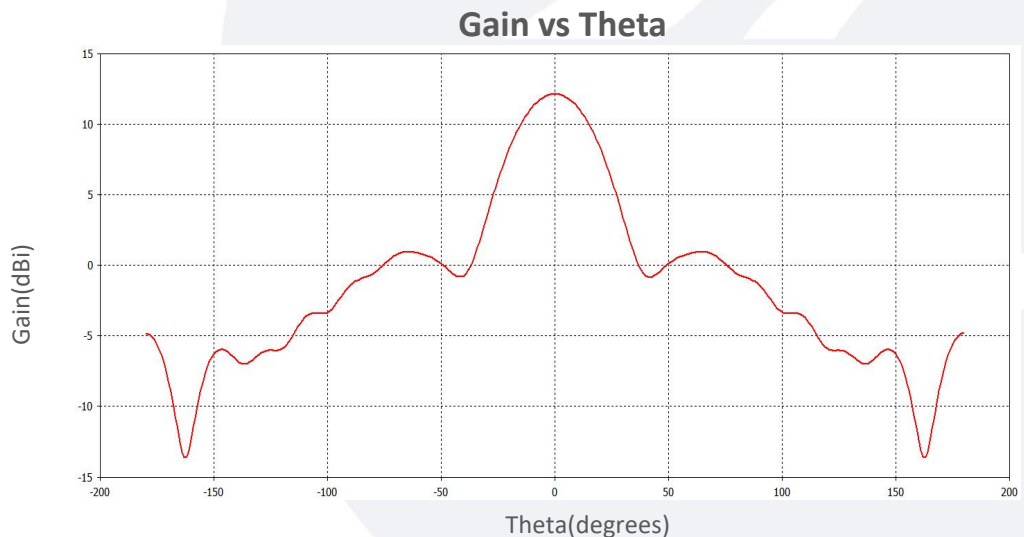
4GHz,E:



5GHz,H:



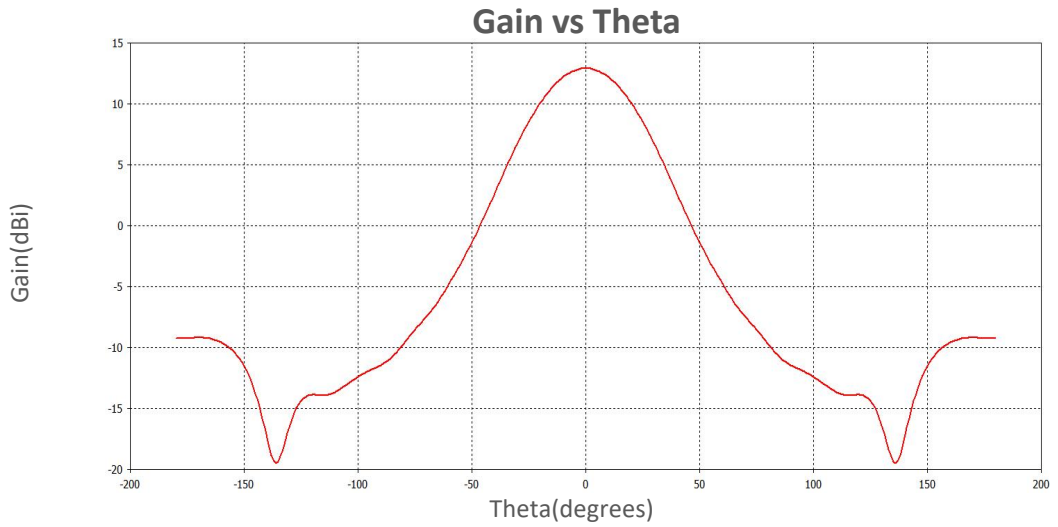
5GHz,E:



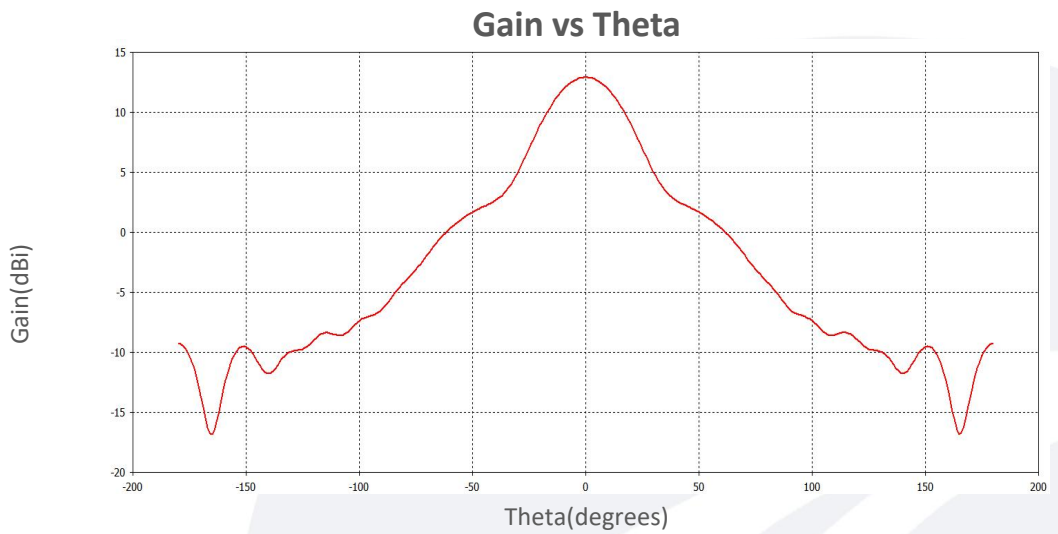
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**典型曲线 Typical Performance Data:**

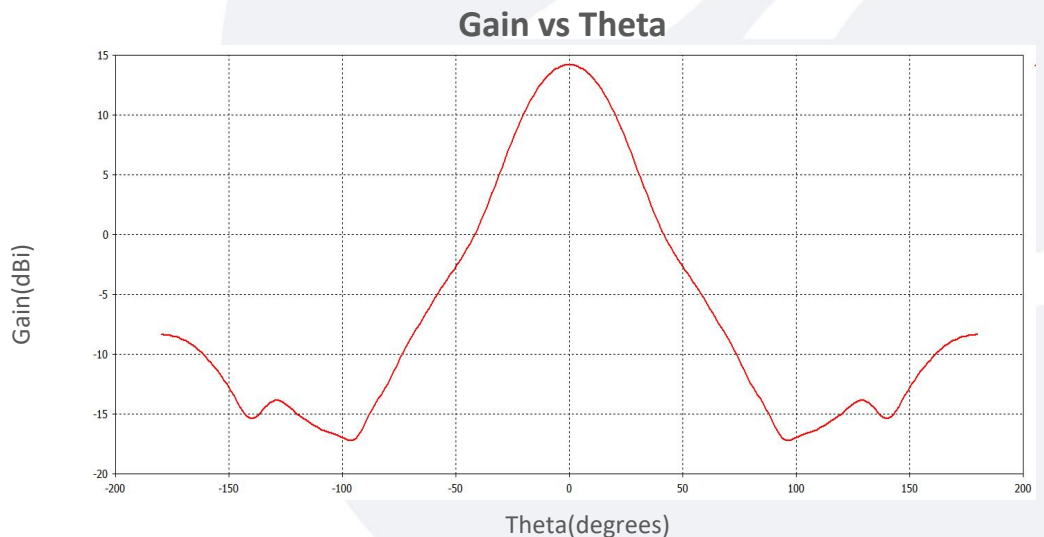
6GHz,H:



6GHz,E:



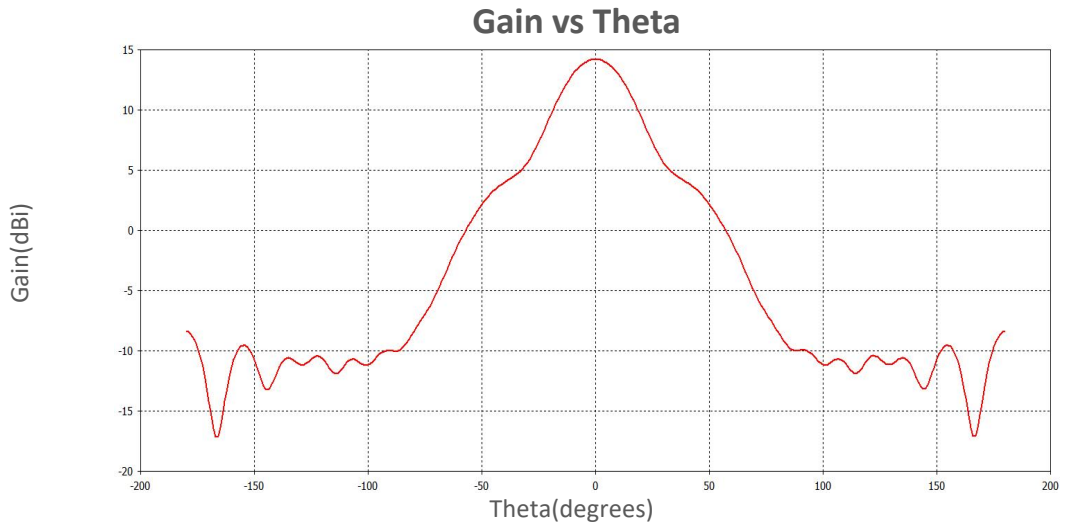
7GHz,H:



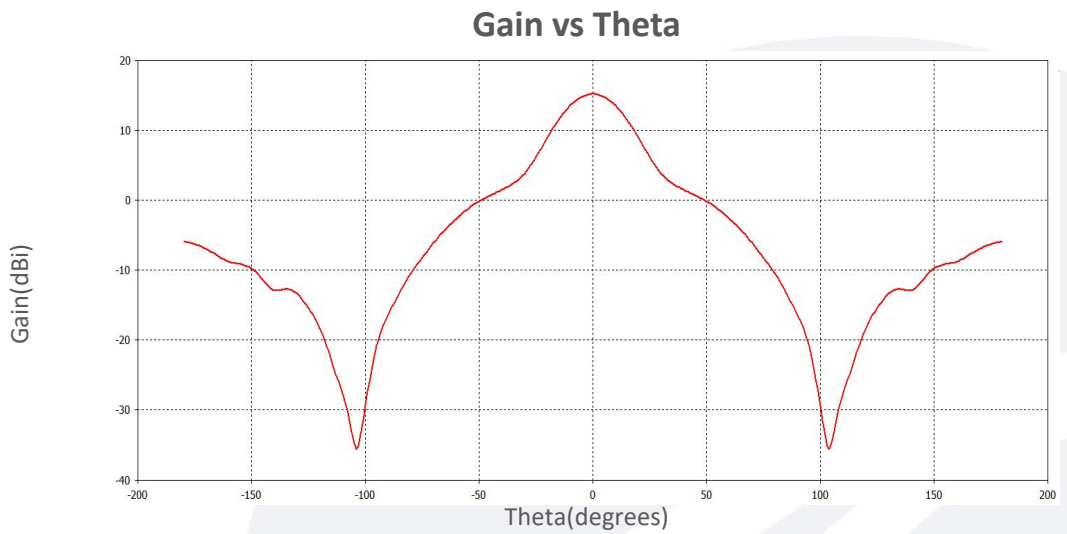
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**典型曲线 Typical Performance Data:**

7GHz,E:



8GHz,H:



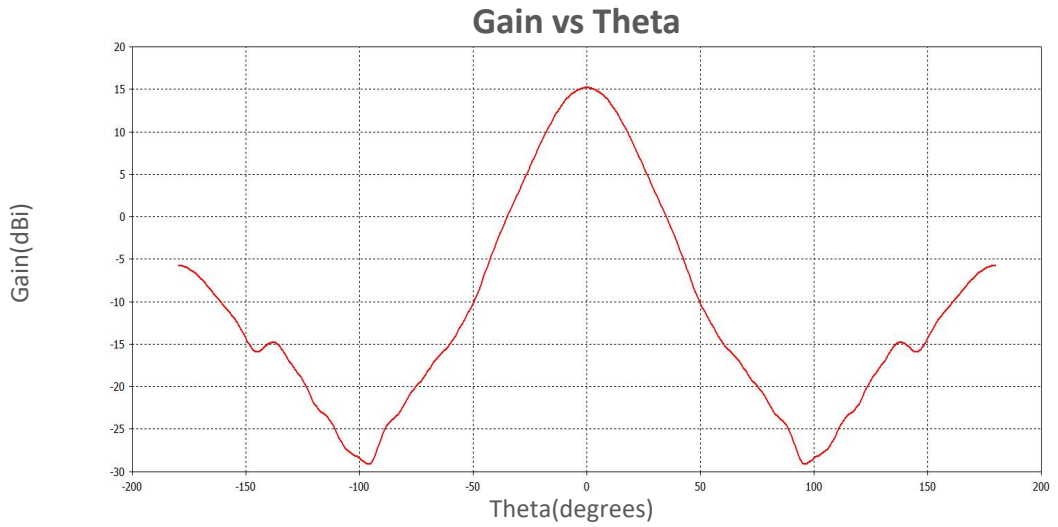
8GHz,E:



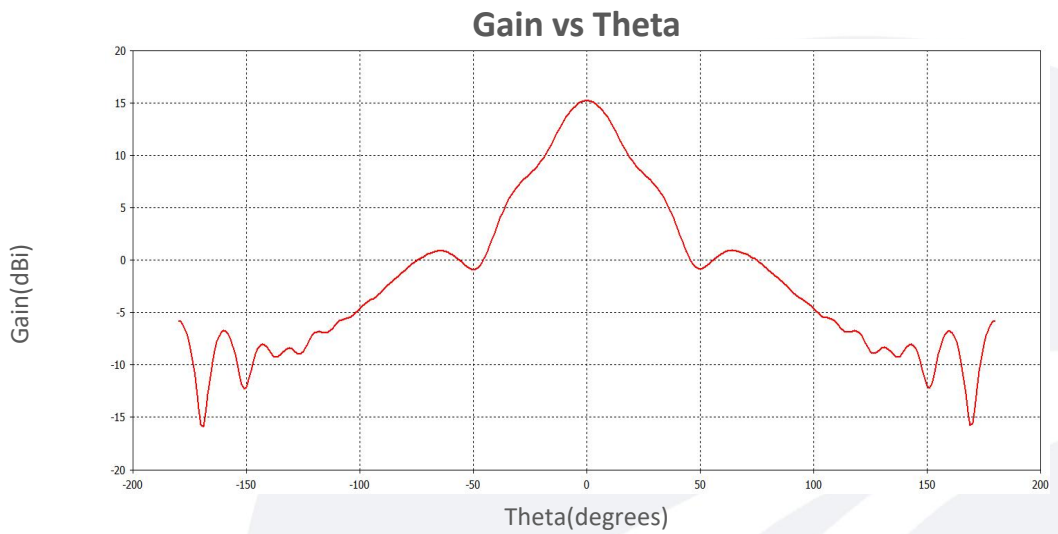
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

## 典型曲线 Typical Performance Data:

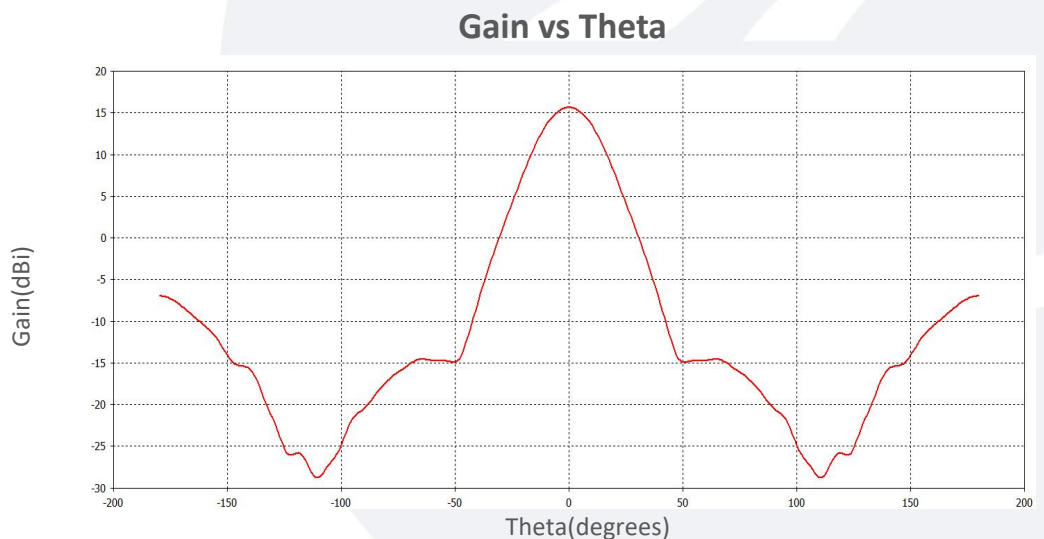
9GHz,H:



9GHz,E:



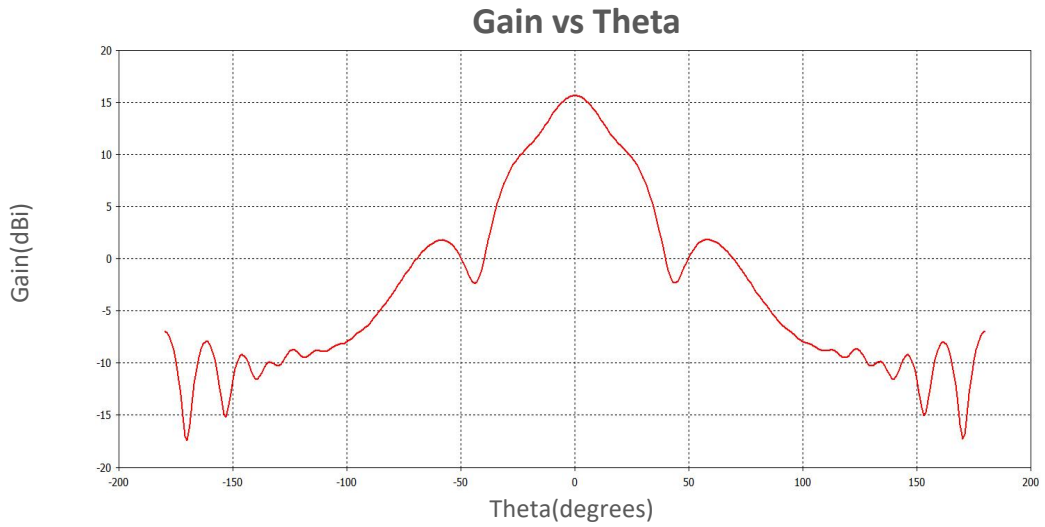
10GHz,H:



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:**

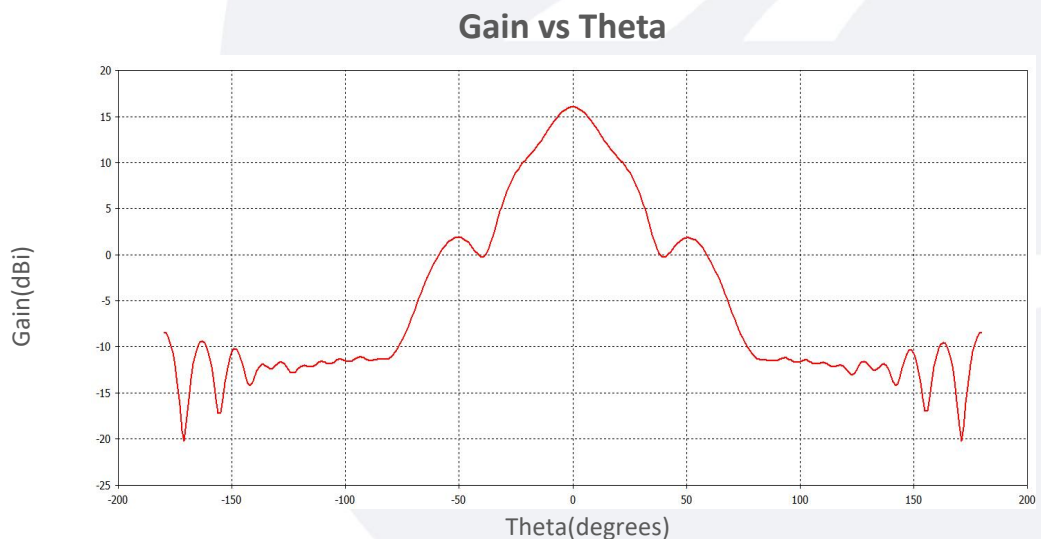
10GHz,E:



11GHz,H:



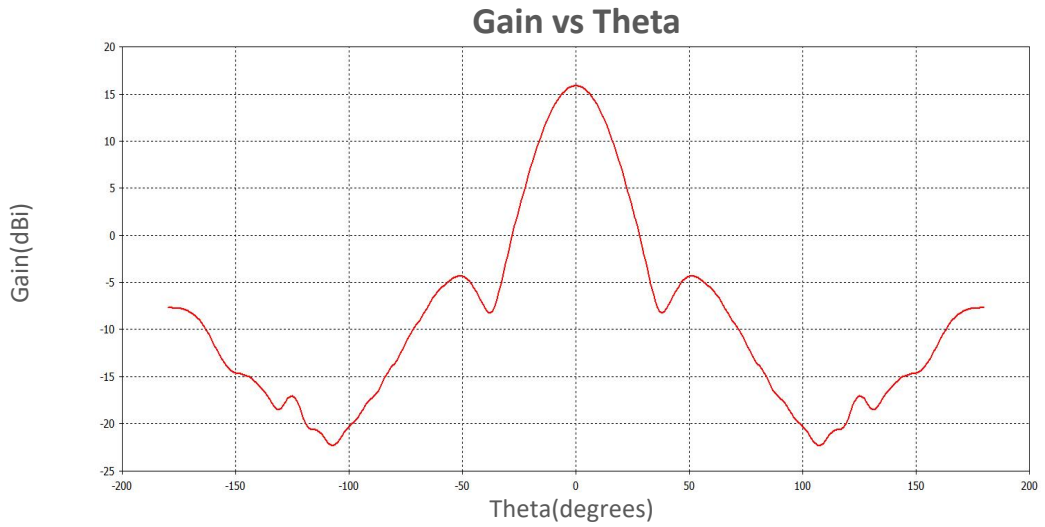
11GHz,E:



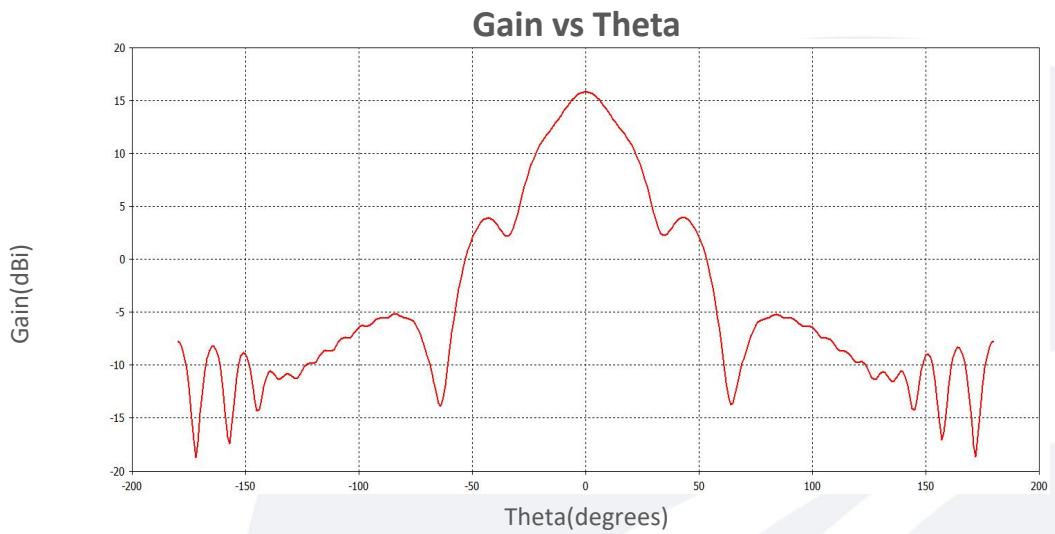
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**典型曲线 Typical Performance Data:**

12GHz,H:



12GHz,E:



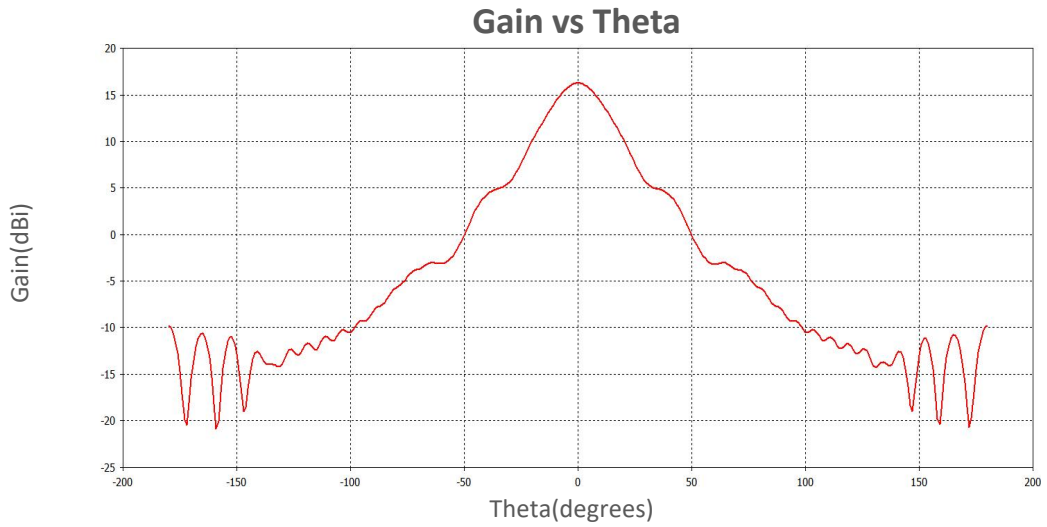
13GHz,H:



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:**

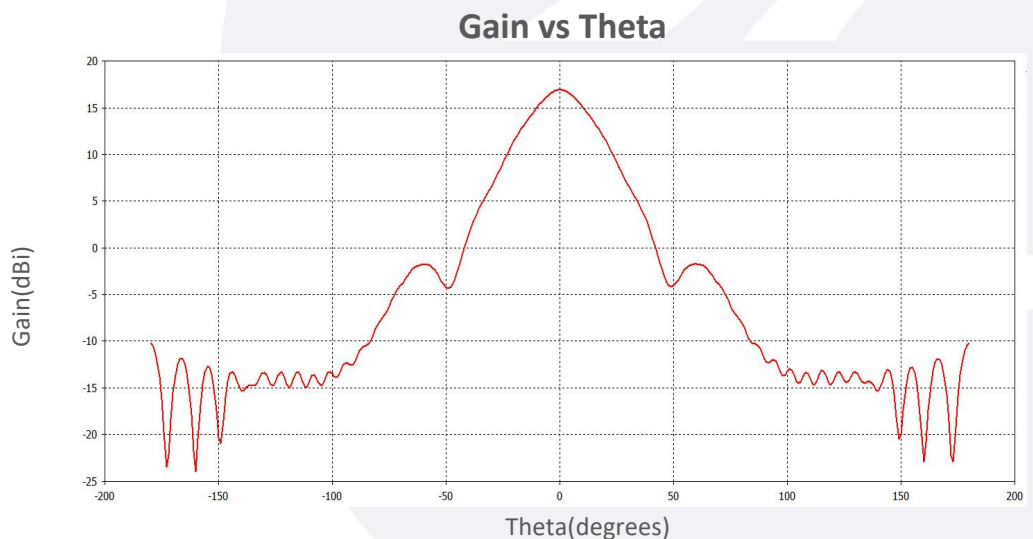
13GHz,E:



14GHz,H:



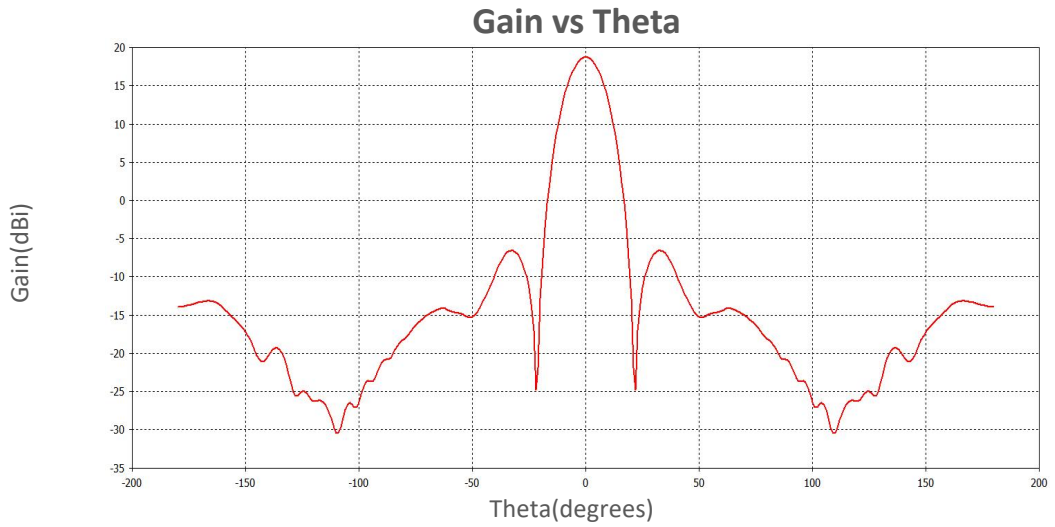
14GHz,E:



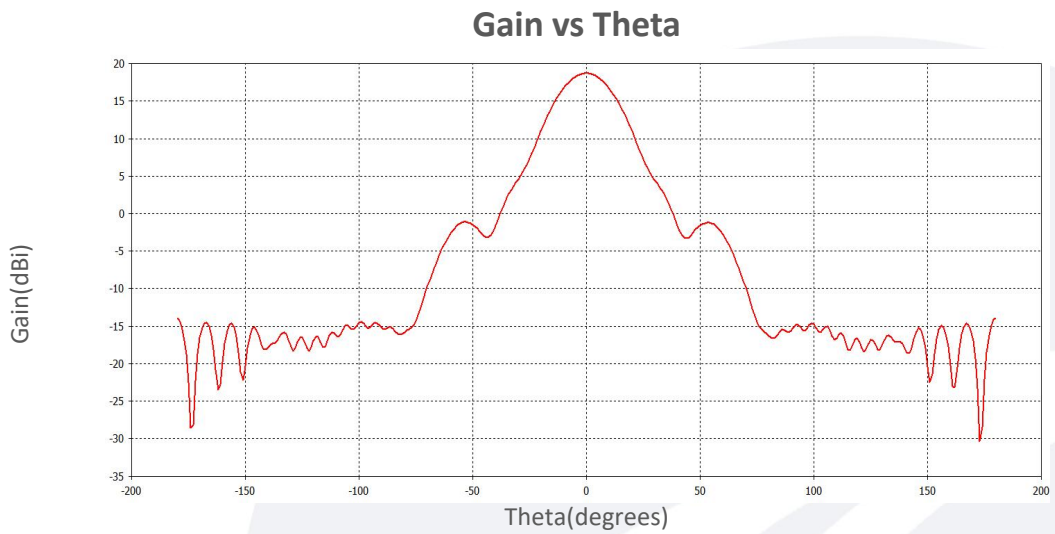
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**典型曲线 Typical Performance Data:**

15GHz,H:



15GHz,E:



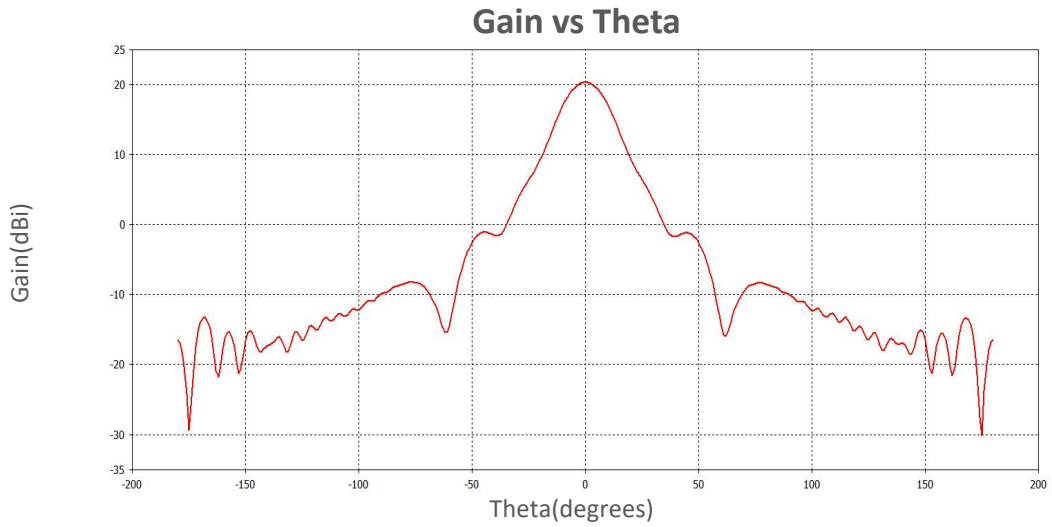
16GHz,H:



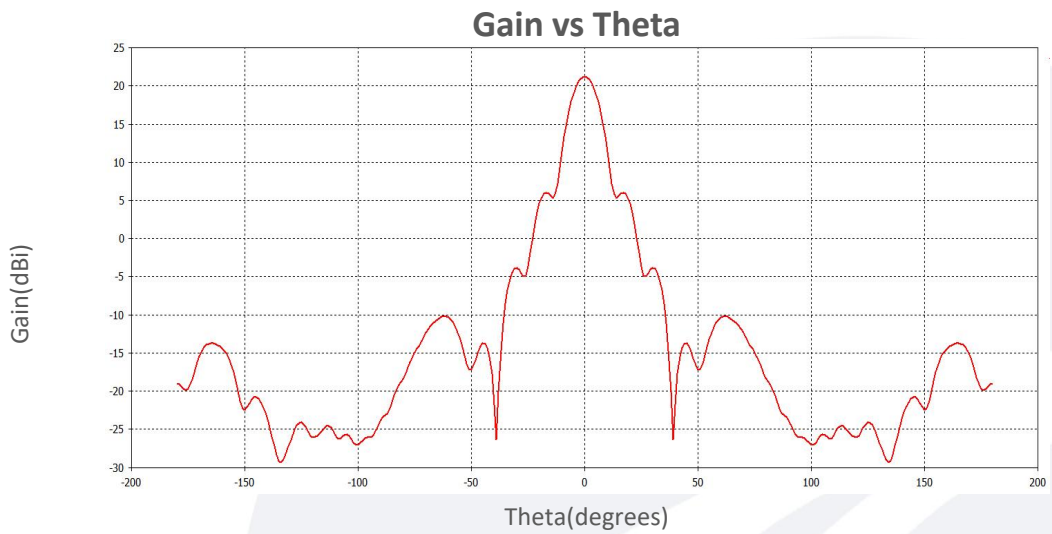
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**典型曲线 Typical Performance Data:**

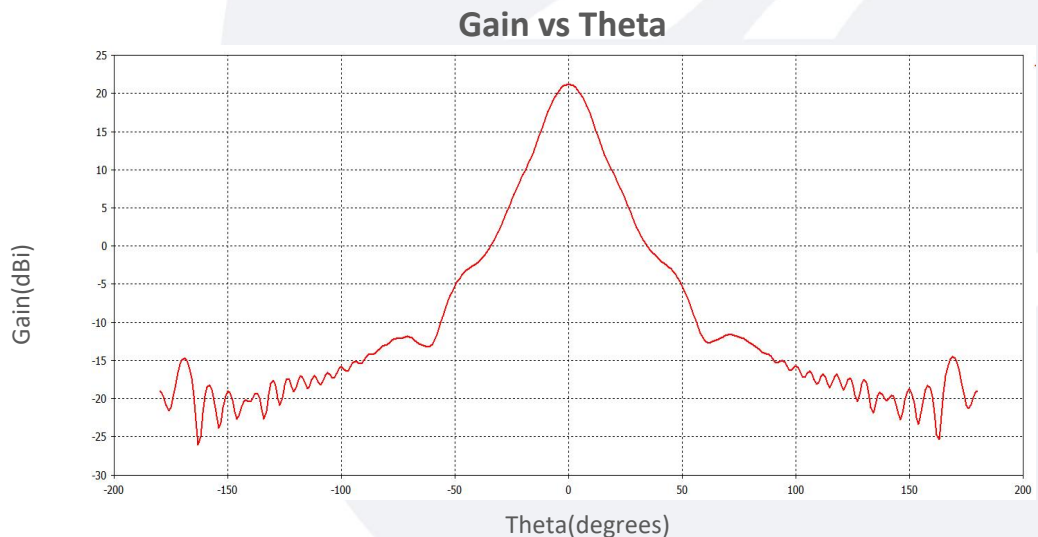
16GHz,E:



17GHz,H:



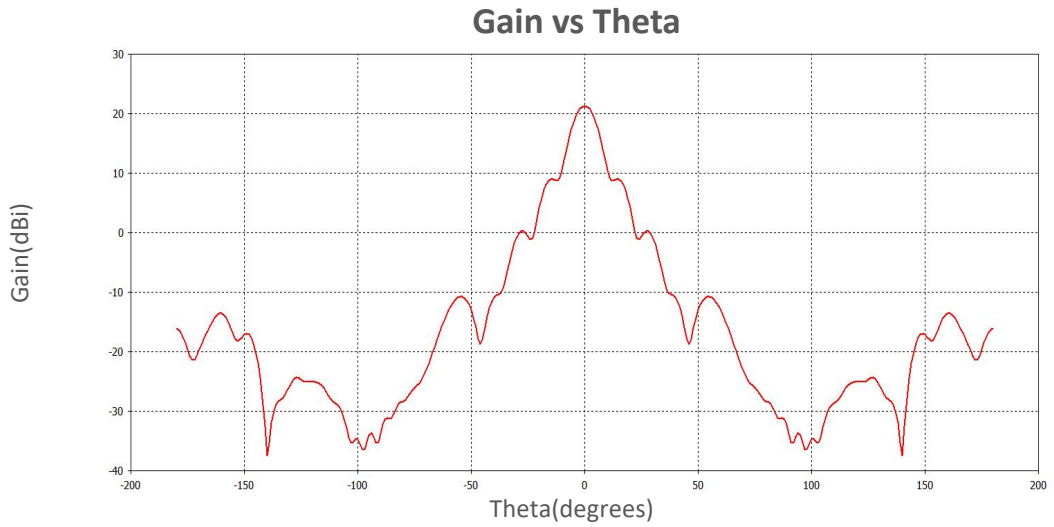
17GHz,E:



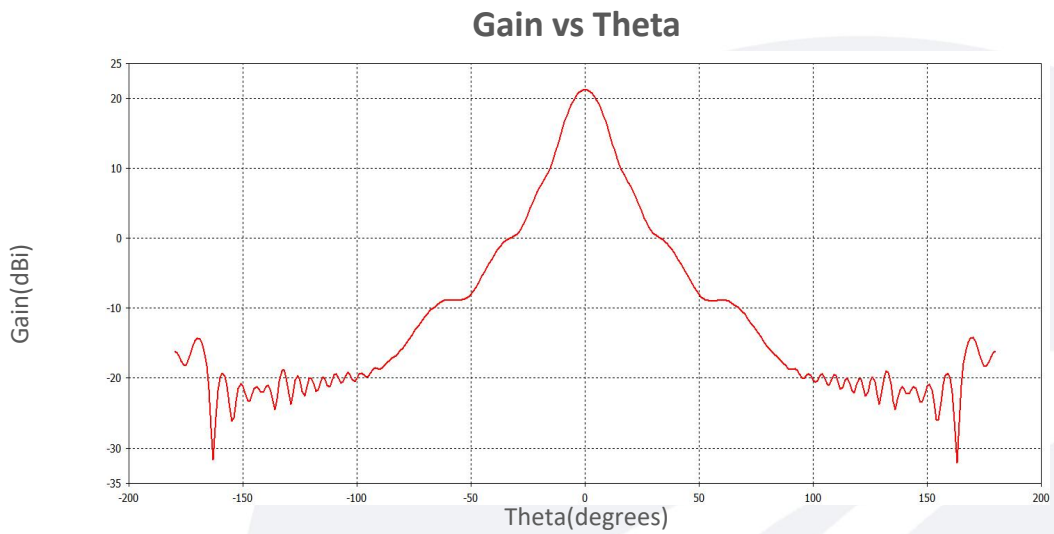
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

## 典型曲线 Typical Performance Data:

18GHz,H:



18GHz,E:



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.