Suzhou Talent Microwave,Inc
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# Dual Ridged Horn Antenna

## N Female/0.7-18GHz/6dBi Min, Gain  Model:TL-07180DRHA12N

TL-07180DRHA12N is a dual ridged horn antenna, its operating frequency range from 0.7 GHz to 18 GHz. It provides a minimum gain of 6 dB. The input port configuration offers coax adapter structure with N female.

## Features:

- Operating Frequency 0.7 to 18GHz
- Gain: 10dBi Typ
- Linear Polarization

## Applications:

- Radar Systems
- Communication Systems

## Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency Range | 0.7 | | 18 | GHz |
| Gain | 6 | | | dBi |
| Input VSWR | | | 3 | :1 |

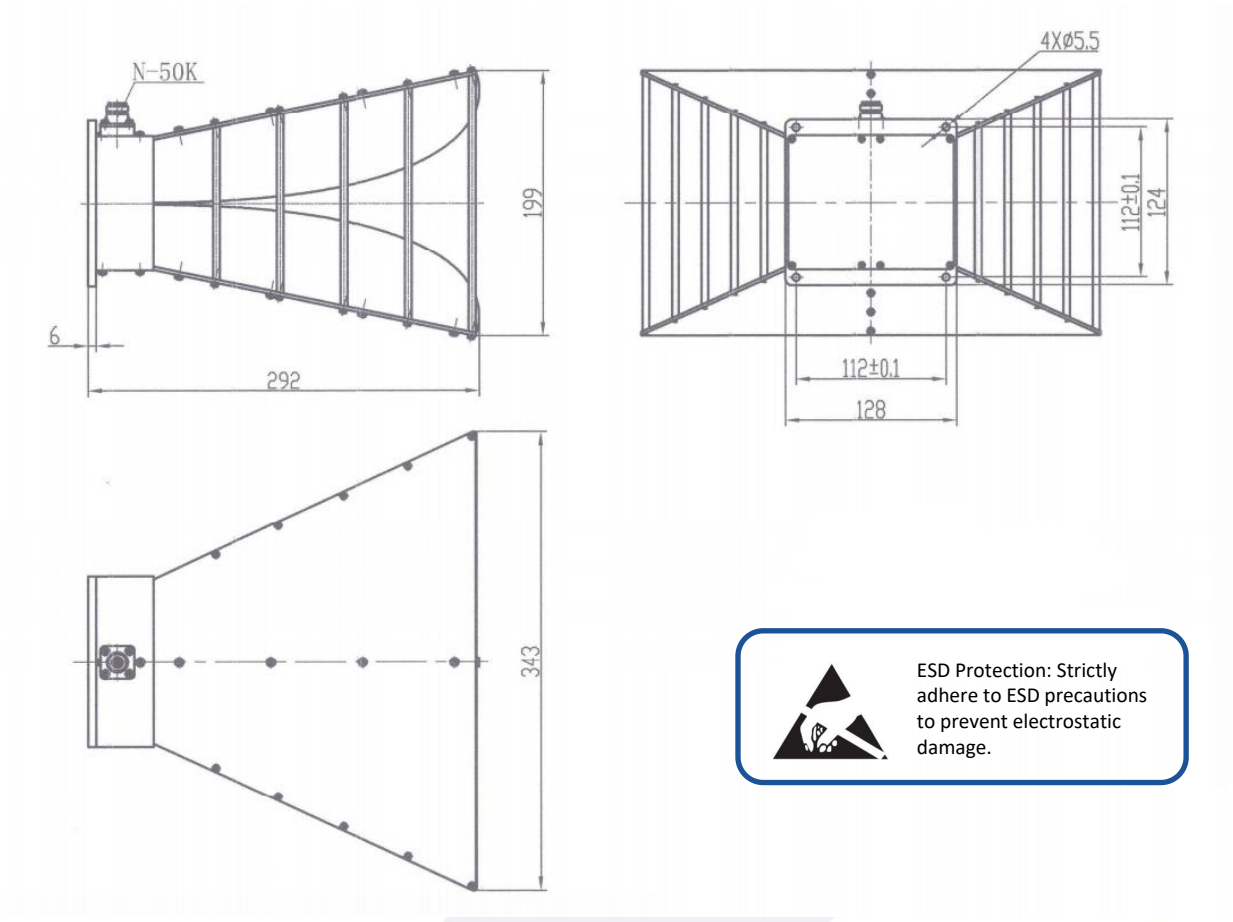
## Physical Characteristics:

| Parameter | Value | Units |
|---|---|---|
| Operating Temperature | -40~+85 | ℃ |
| Material | Aluminium | |
| Finish | True color conductive oxidation,spray paint | |
| Connectors | N Female | |
| Size | 343*199*292 | mm |

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## Outline Drawing:

Unit:mm; Tolerance:±0.1mm




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

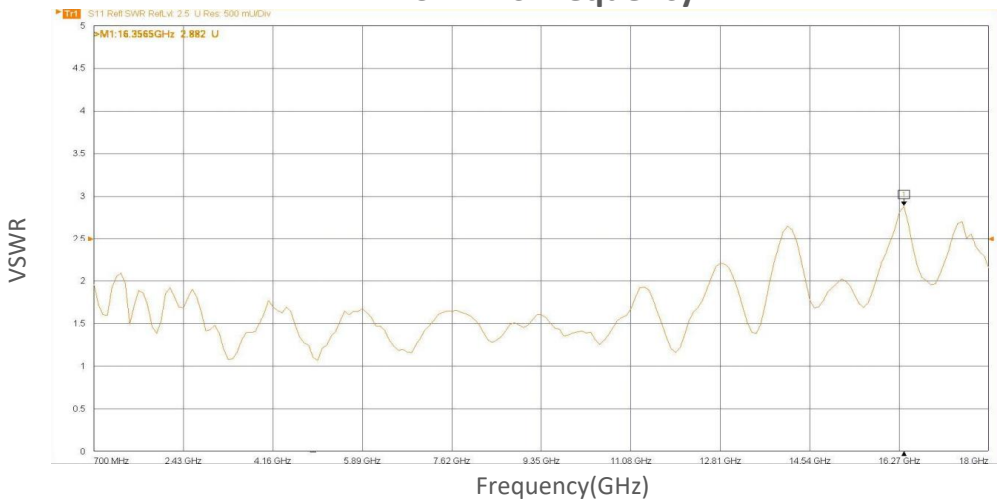
## Ordering Information:

| Base Number | Description | Revision |
|---|---|---|
| TL-07180DRHA12N | Dual Ridged Horn Antenna,<br>0.7-18GHz,Gain: 10dBi Typ, N Female | Rev.1.0 |

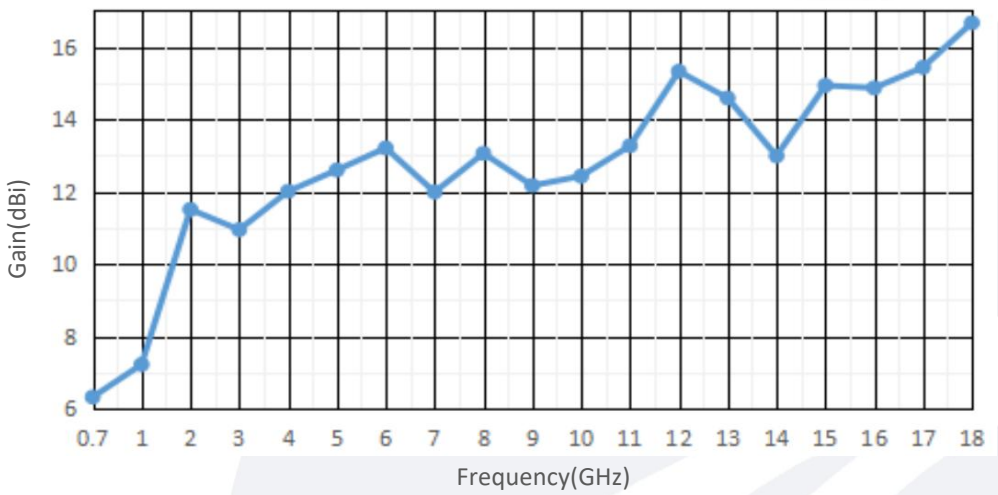
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## Typical Performance Data:

### VSWR vs Frequency

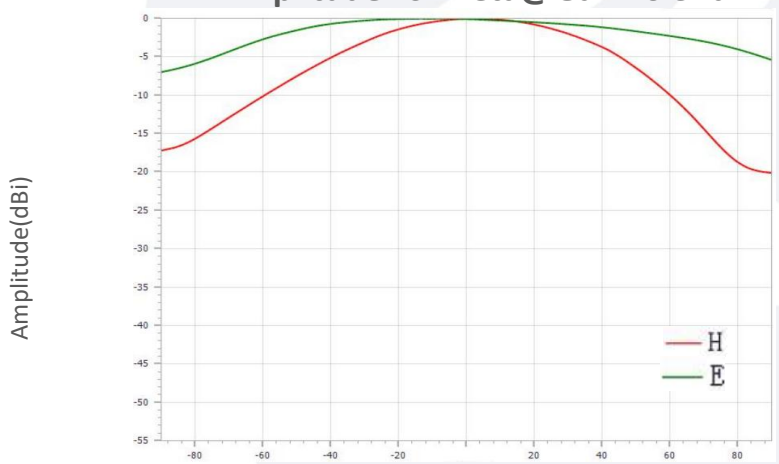



### Gain vs Frequency




**0.7GHz:**

### Amplitude vs Theta@Gain=6.32dB

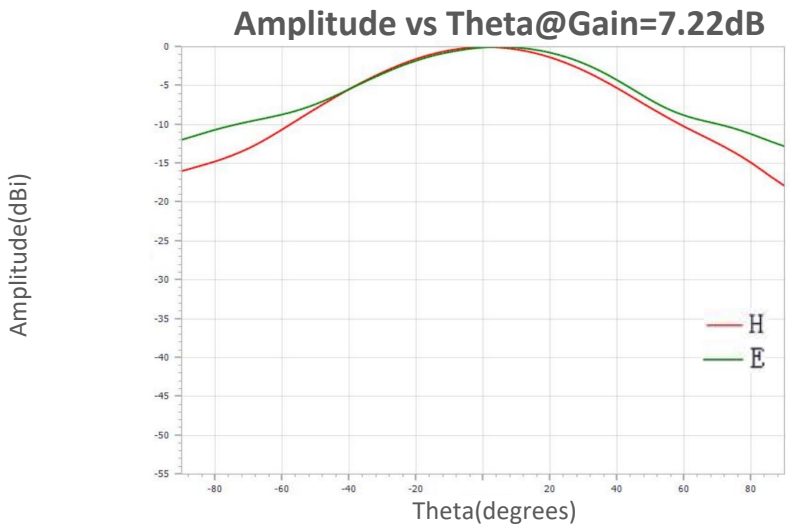



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

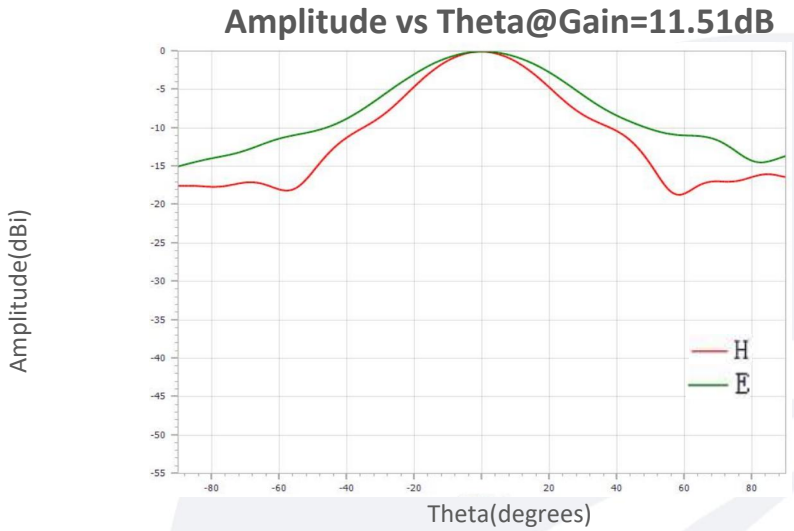
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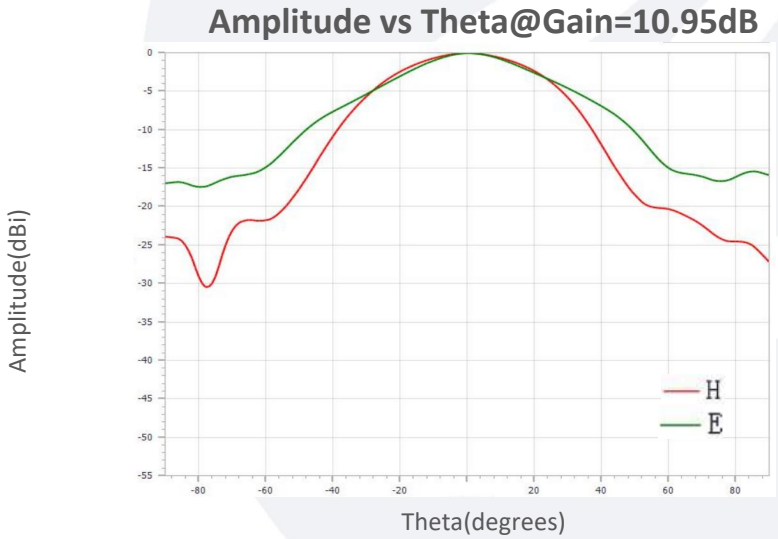
1GHz:




2GHz:




3GHz:

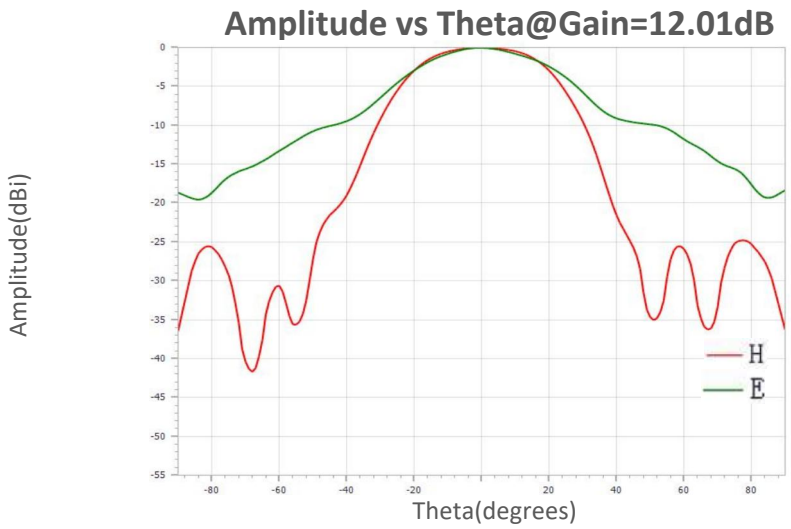



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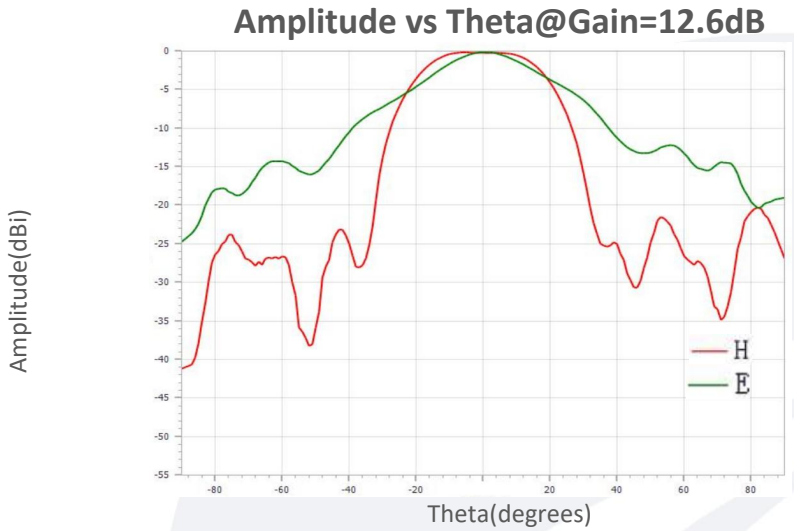
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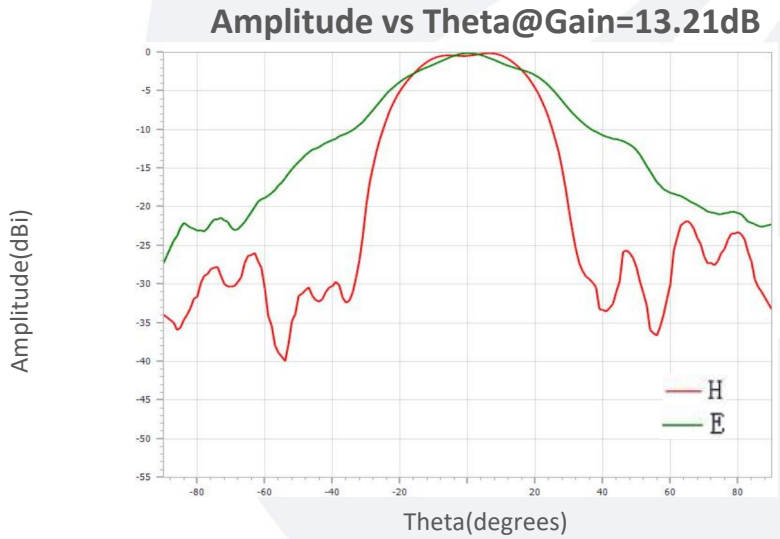
4GHz:




5GHz:




6GHz:

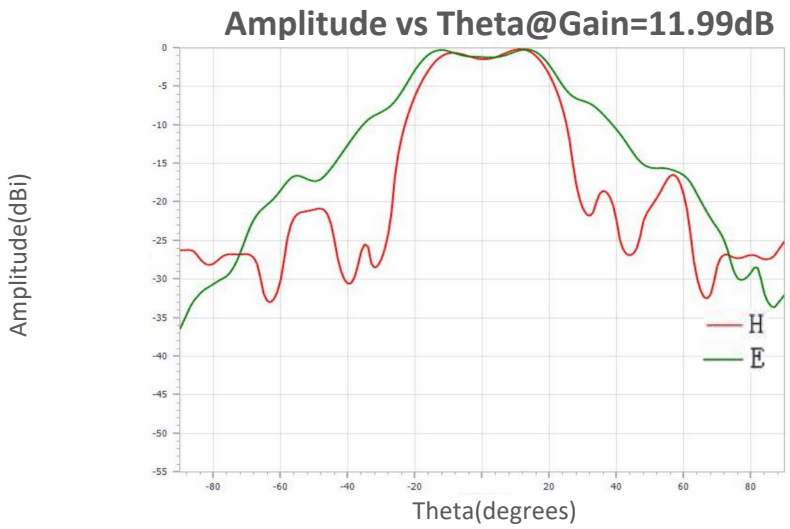



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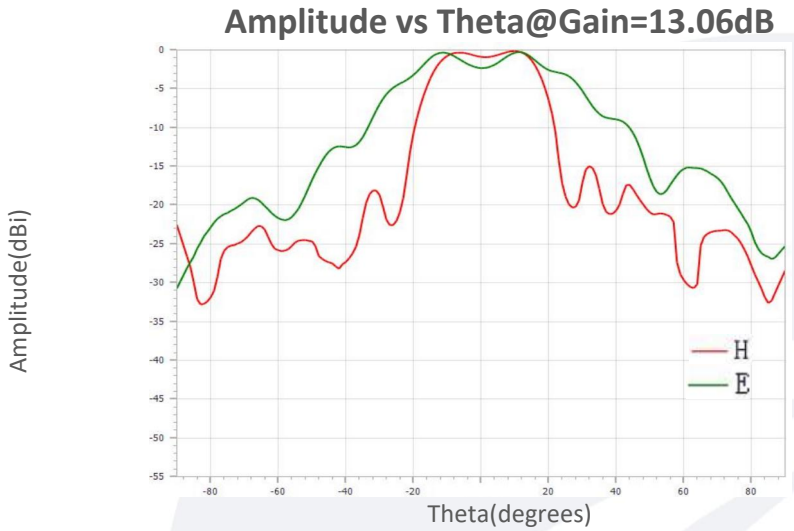
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## Typical Performance Data:

**7GHz:**




**8GHz:**




**9GHz:**

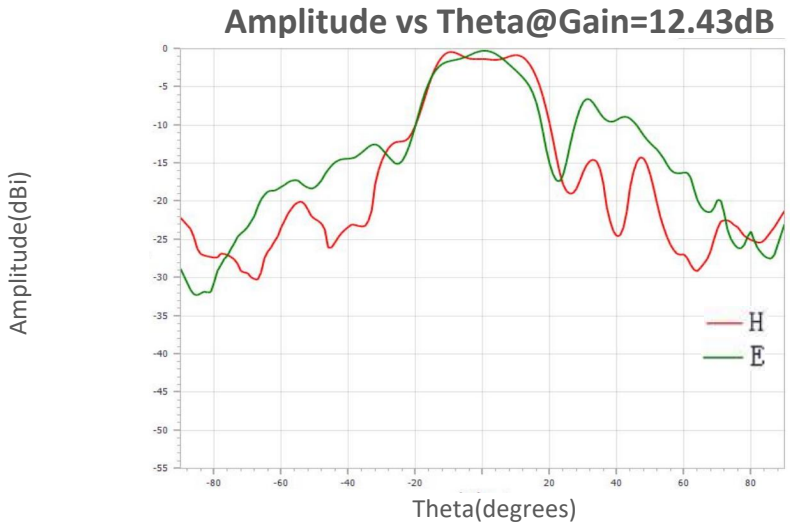



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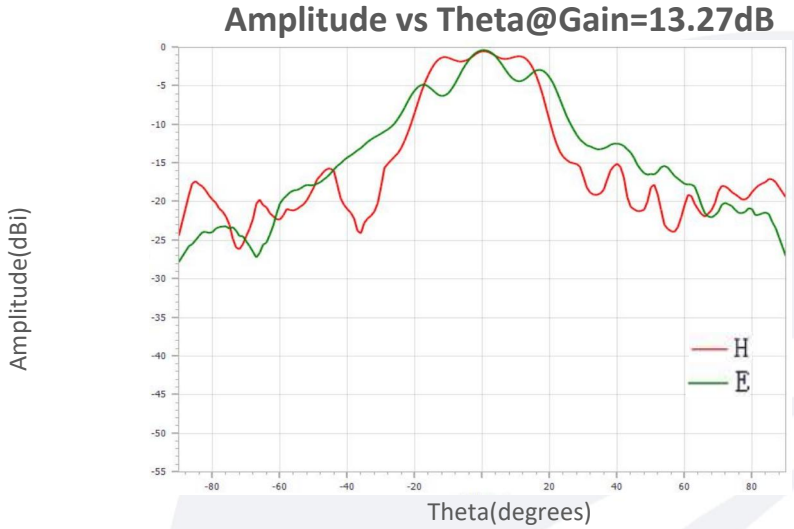
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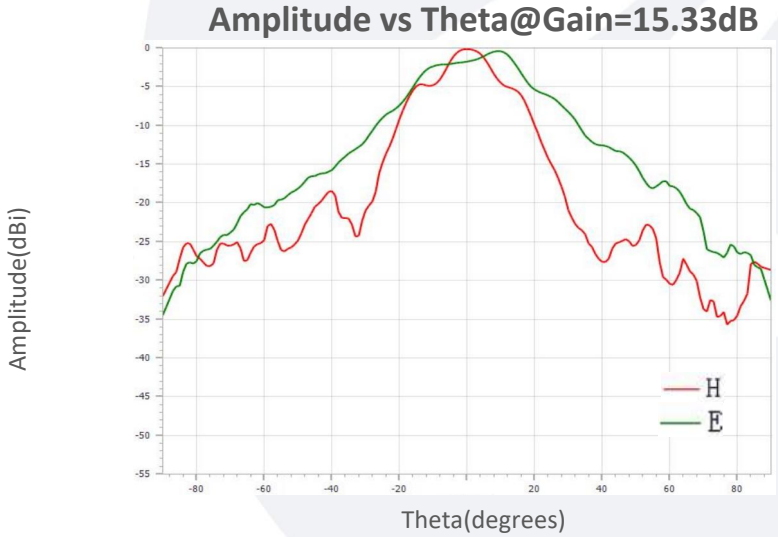
**10GHz:**




**11GHz:**




**12GHz:**

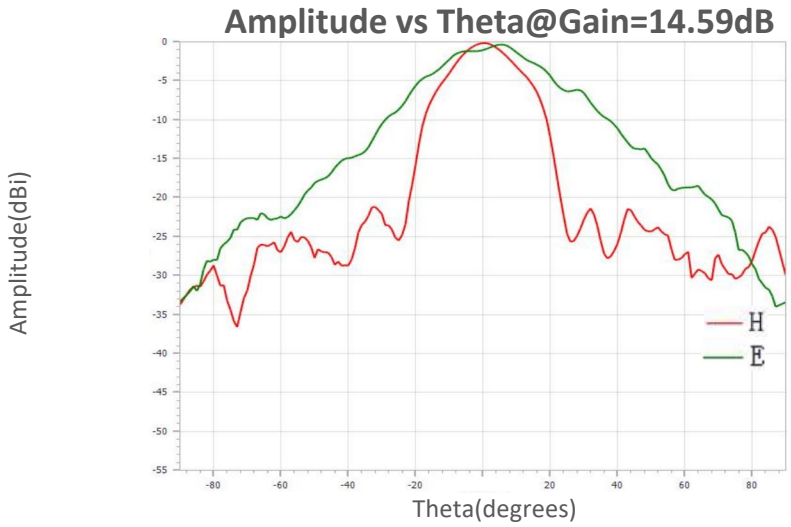



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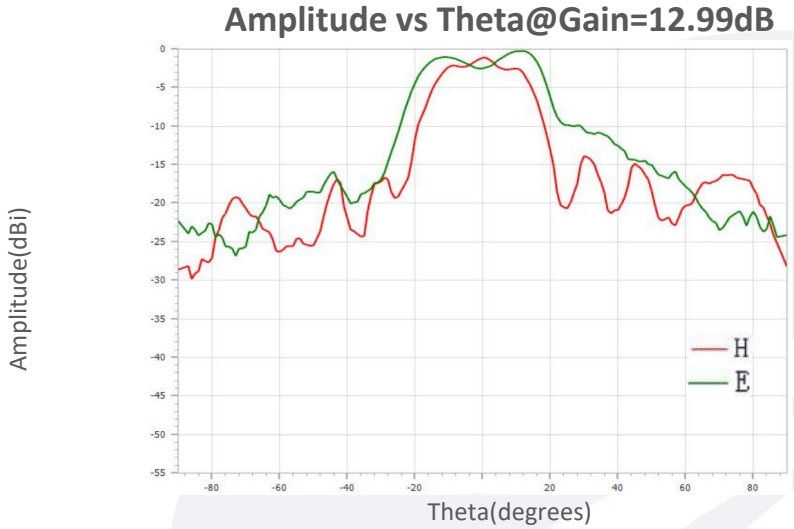
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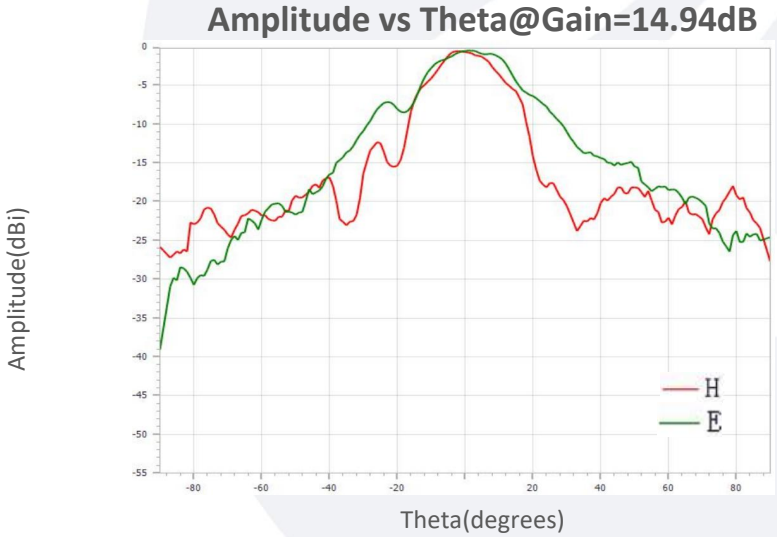
**13GHz:**




**14GHz:**




**15GHz:**

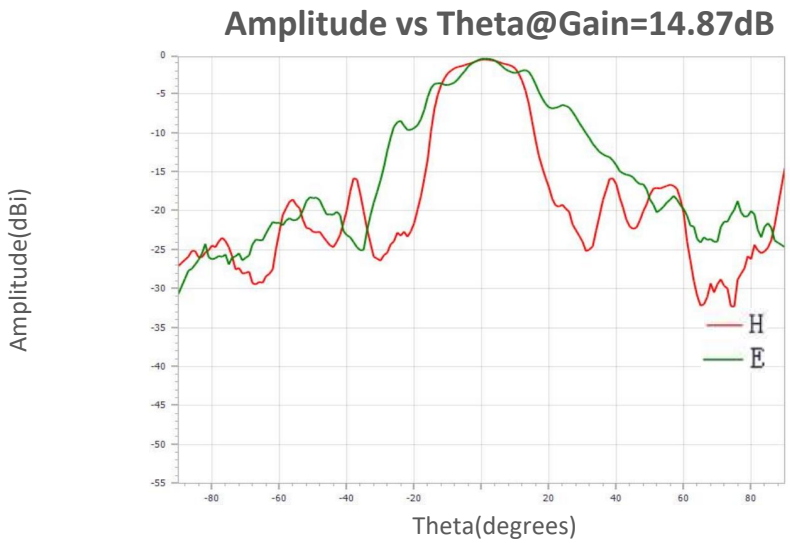



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## Typical Performance Data:

**16GHz:**




**17GHz:**




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