

Product: 6-18G Planar Spiral Antenna

Part Number: LANTANT05380



| Specification |                         |                                    |         |         |          |
|---------------|-------------------------|------------------------------------|---------|---------|----------|
| No            | Parameter               | Minimum                            | Typical | Maximum | Units    |
| 1             | Frequency range         | 6                                  | -       | 18      | GHz      |
| 2             | Gain                    |                                    | 0       |         | dBi      |
| 3             | Polarization            | Right-handed circular polarization |         |         |          |
| 4             | 3dB Beam width, E-Plane |                                    | 50      |         | ° degree |
| 5             | 3dB Beam width, H-Plane |                                    | 50      |         | ° degree |
| 6             | VSWR                    | -                                  | 2.0     |         | -        |
| 7             | axial ratio             |                                    | 2.0     |         | dB       |
| 8             | weight                  | 1KG                                |         |         |          |
| 9             | Outline:                | 29.5×29×25 (mm)                    |         |         |          |
| 10            | Impedance               | 50                                 |         |         | Ω        |
| 11            | Connector               | SMA-K                              |         |         |          |
| 12            | surface                 | Gray                               |         |         |          |

**Remarks:**

Power rating is for load vswr better than 1.20:1

| Environmental Specifications |                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Operational Temperature      | -40°C~+55°C                                                                                                            |
| Storage Temperature          | -50°C~+105°C                                                                                                           |
| Vibration                    | 25gRMS (15 degrees 2KHz) endurance, 1 hour per axis                                                                    |
| Humidity                     | 100% RH at 35°C, 95%RH at 40°C                                                                                         |
| Shock                        | 20G for 11msec half sine wave, 3 axis both directions                                                                  |
| Rohs                         | compliant                                                                                                              |
| Weight                       | 50g                                                                                                                    |
| Packing                      | Carton packing case (customizable)                                                                                     |
| Application                  | Testing or monitoring can be carried out in conjunction with the receiver, and it can be used in various applications. |

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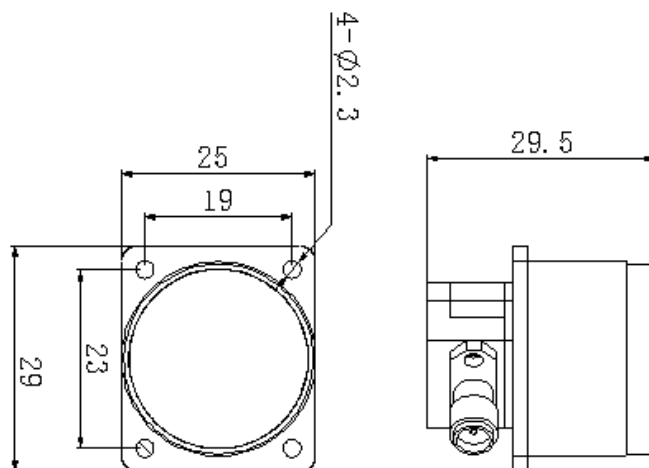
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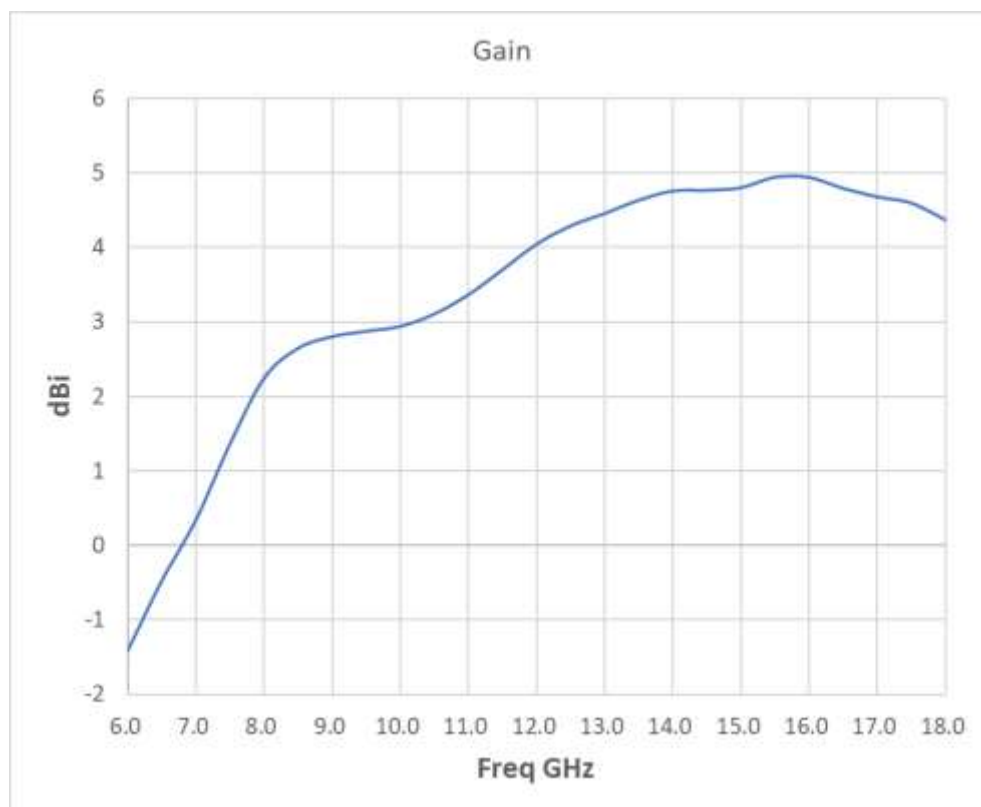
## Outline Drawing:

All Dimensions in mm Outline Tolerances  $\pm 0.5(0.02)$

Mounting Holes Tolerances  $\pm 0.2(0.008)$  All Connectors: SMA-K



## Gain



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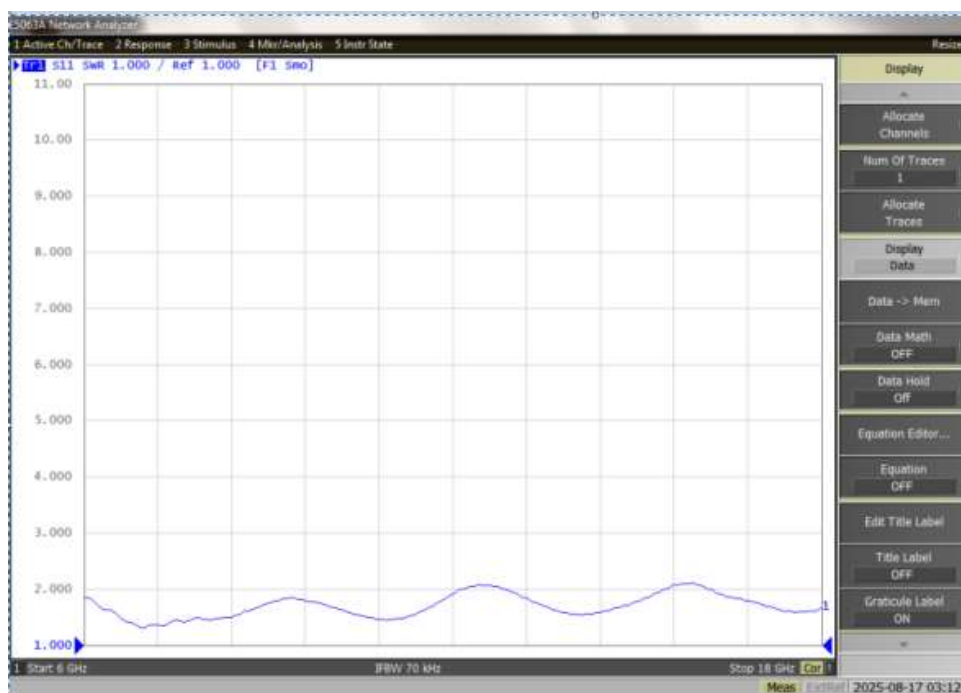
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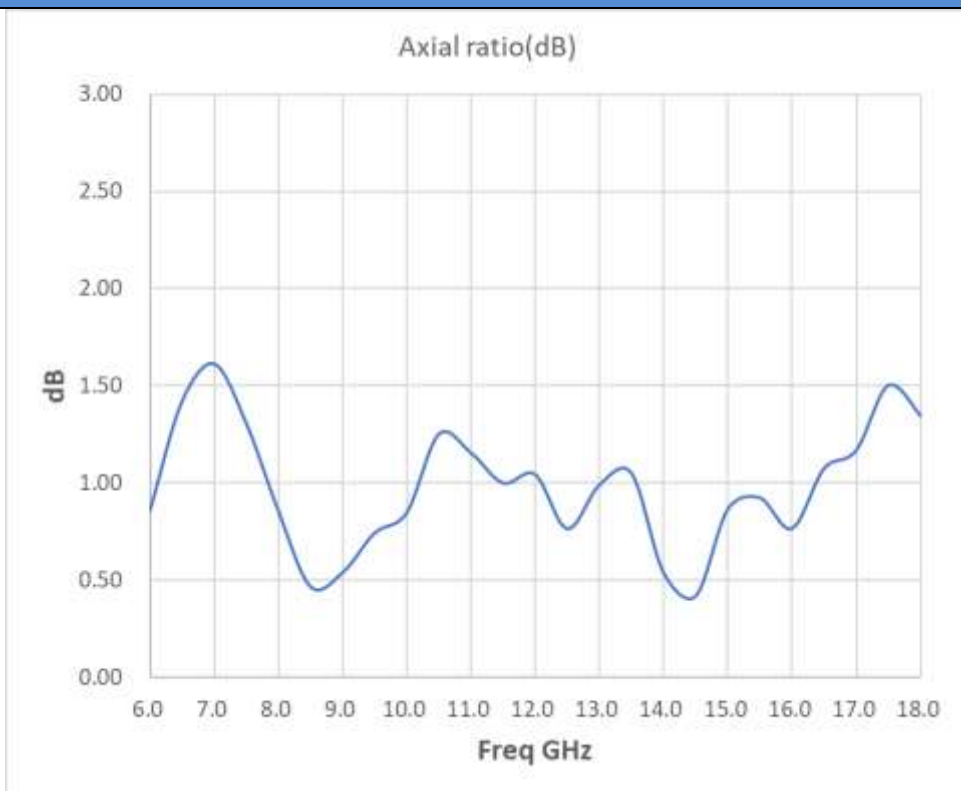
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## VSWR



## Axial ratio



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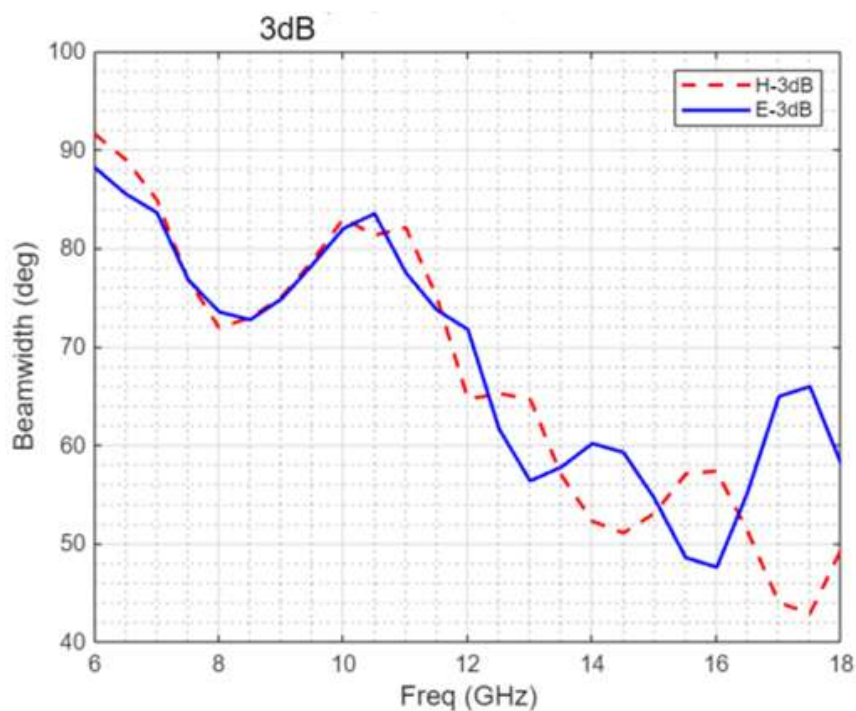
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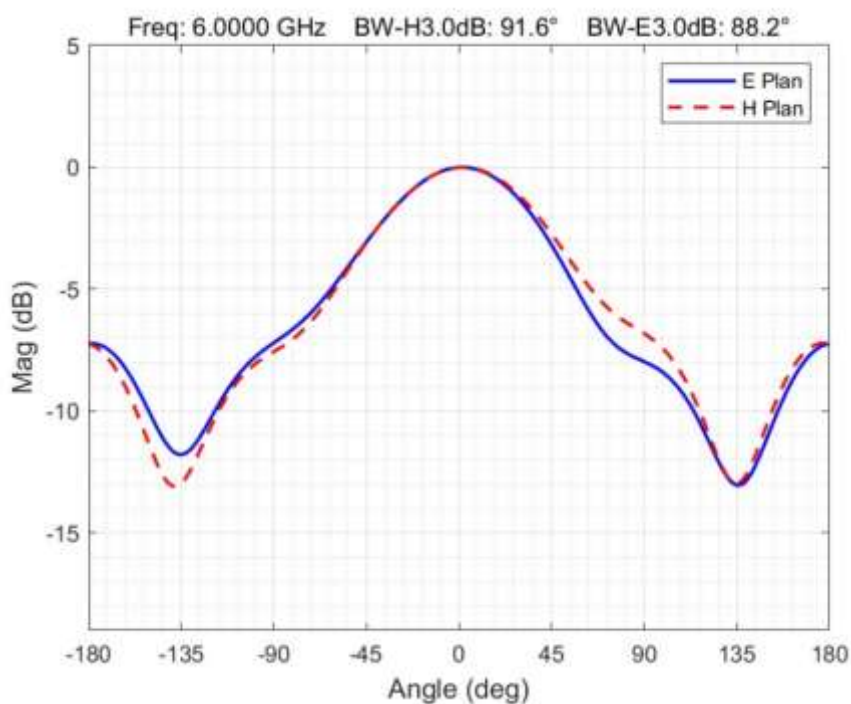
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Beam width



Mag-pattern



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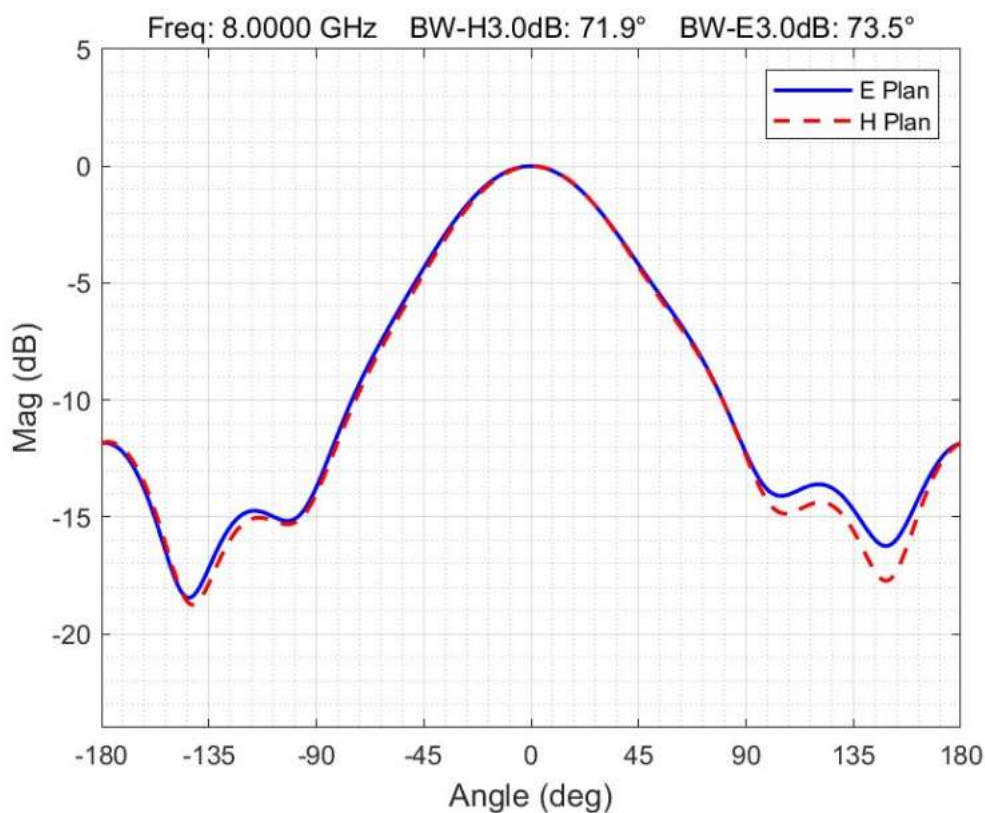
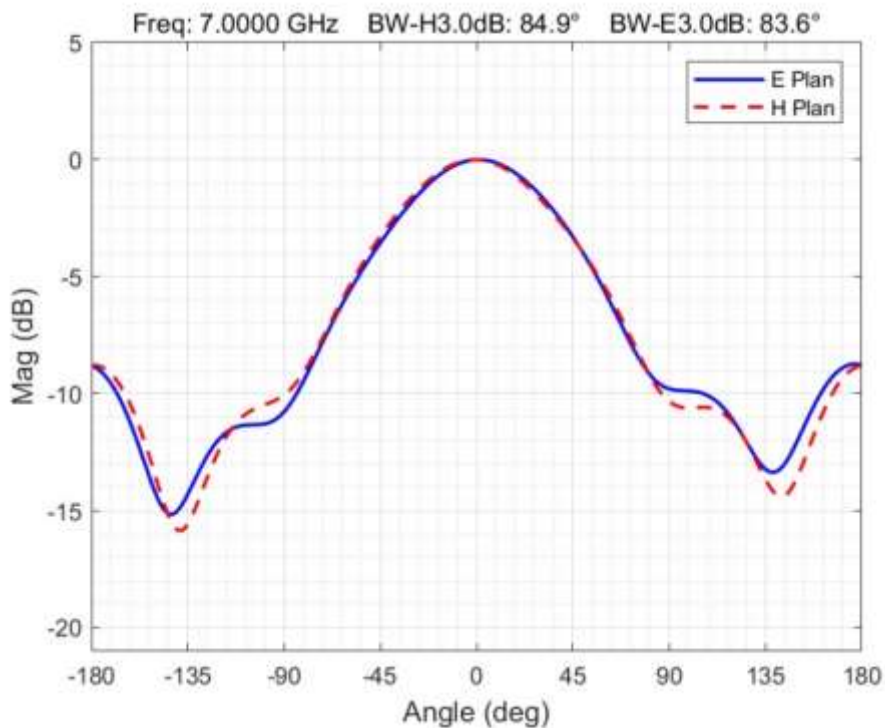
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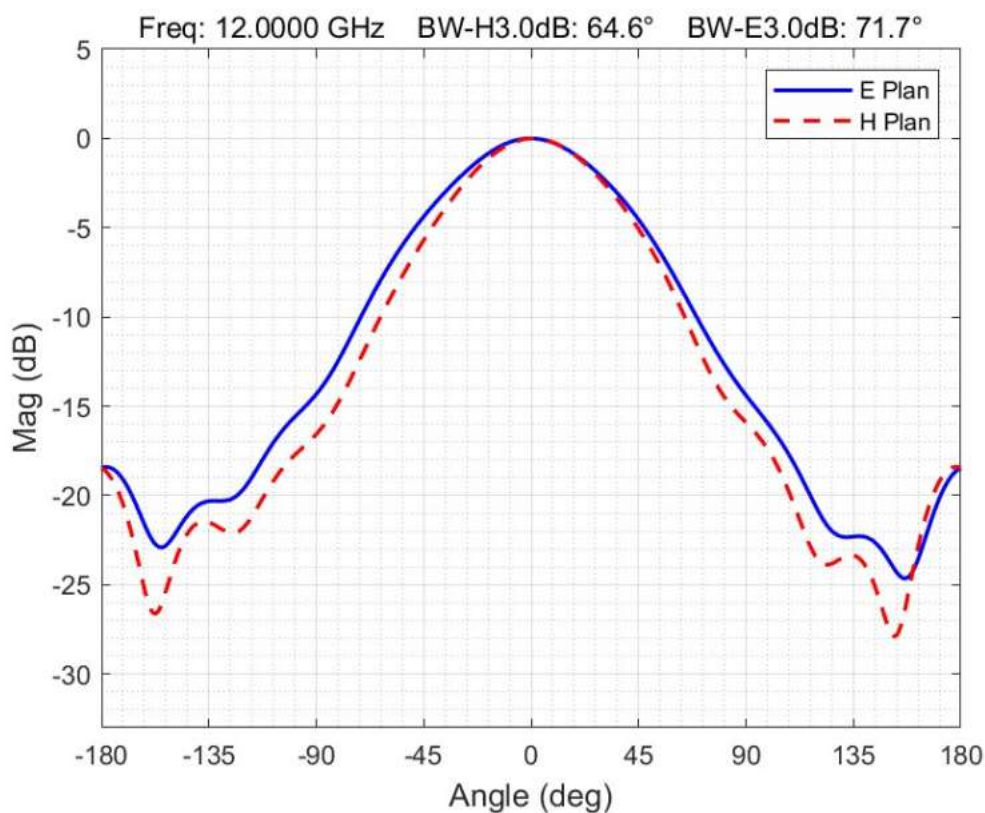
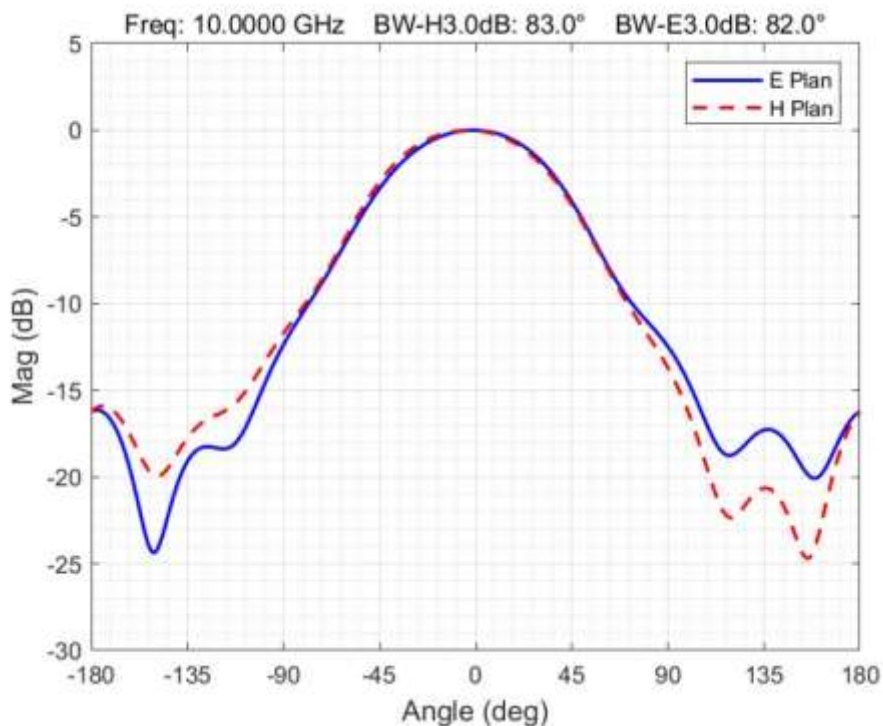
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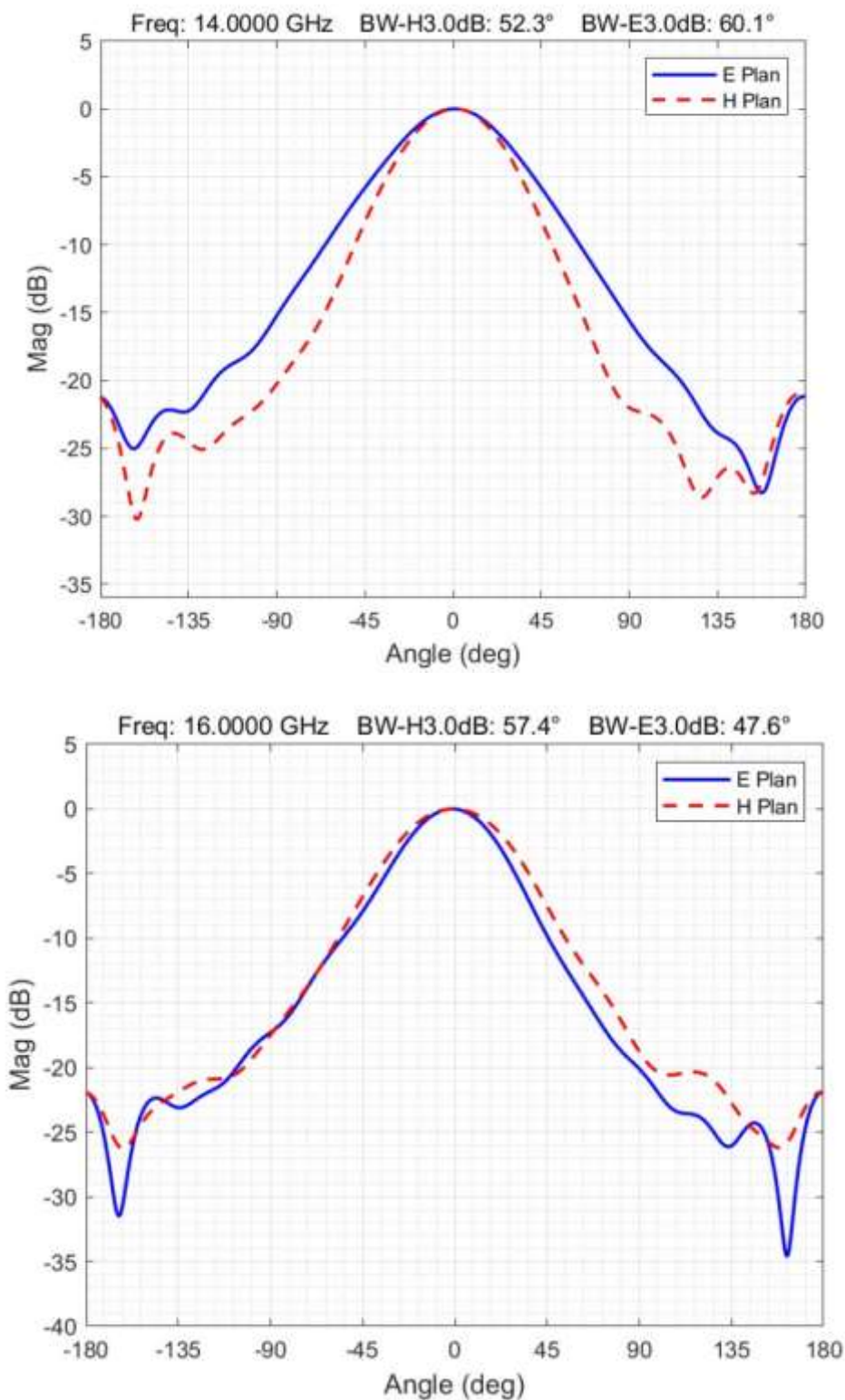
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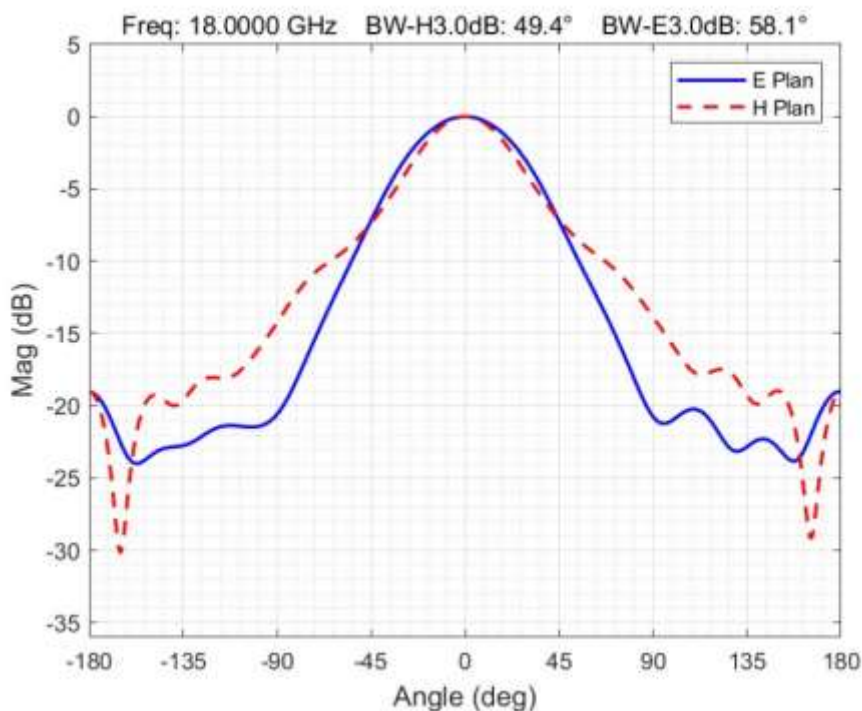
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