



## Standard Gain Horn Antenna 6.57-9.99GHz



### Typical Applications

- Wireless Infrastructure
- RF Microwave & VSAT
- Military & Aerospace
- Test Instrument
- Fiber Optics

### Electrical Specifications

| Parameter           | Min                 | Type | Max | Units |
|---------------------|---------------------|------|-----|-------|
| Frequency Range     | 6.57~9.99           |      |     | GHz   |
| Gain                | 20                  |      |     | dB    |
| VSWR                |                     |      | 1.5 |       |
| Storage temperature | -40° C~+70° C       |      |     |       |
| Storage humidity    | ≤ 80%               |      |     |       |
| Connector           | N-female            |      |     |       |
| Finishing           | Sea grey paint      |      |     |       |
| Material            | Aluminum conductive |      |     |       |

RW112HORN20B consists of horn chamber and feed part. Feed interface is N female connector. Storage sites: normal warehouse without noxious gas, dust.

| Frequency (GHz) | Gain  | Frequency (GHz) | Gain  |
|-----------------|-------|-----------------|-------|
| 6.57            | 19.59 | 8.42            | 21.21 |
| 6.88            | 19.90 | 8.72            | 21.39 |
| 7.19            | 20.22 | 9.03            | 21.58 |
| 7.49            | 20.50 | 9.34            | 21.80 |
| 7.80            | 20.75 | 9.65            | 22.00 |
| 8.11            | 20.97 | 9.99            | 22.20 |

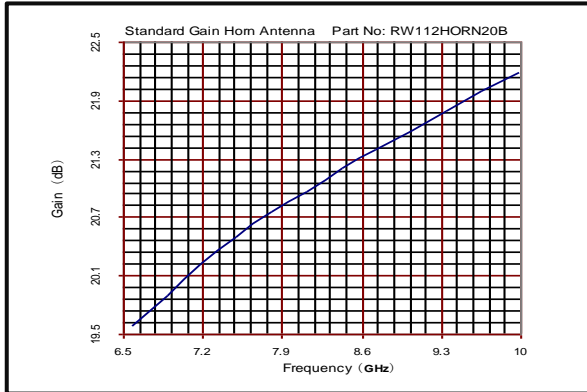
Note: When VSWR is seriously damaged or antenna is deformed by external force, this data will be invalid

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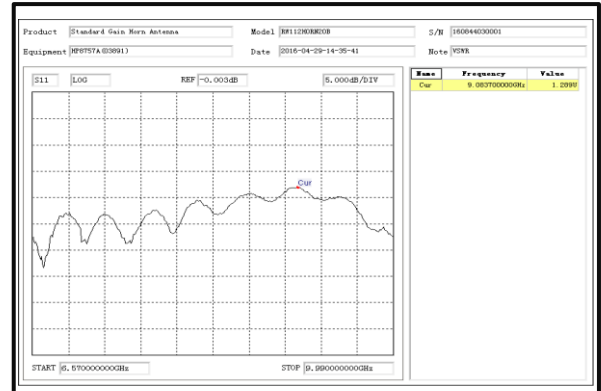


Typical performance plots

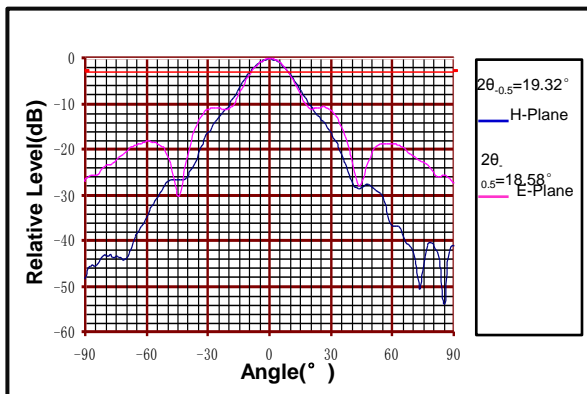
**Gain VS. Frequency**



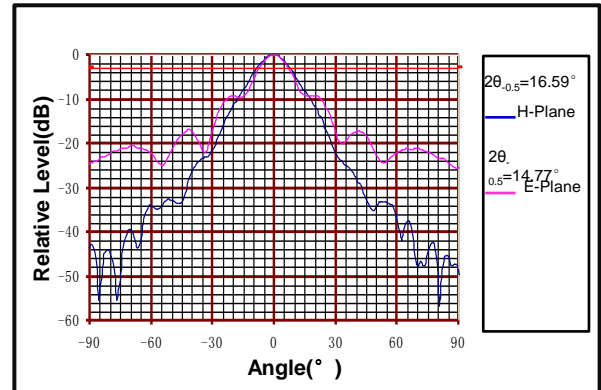
**VSWR**



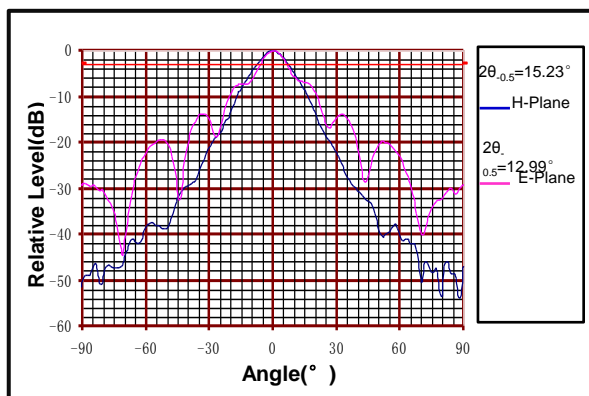
**Typical Direction Pattern (6.57GHz)**



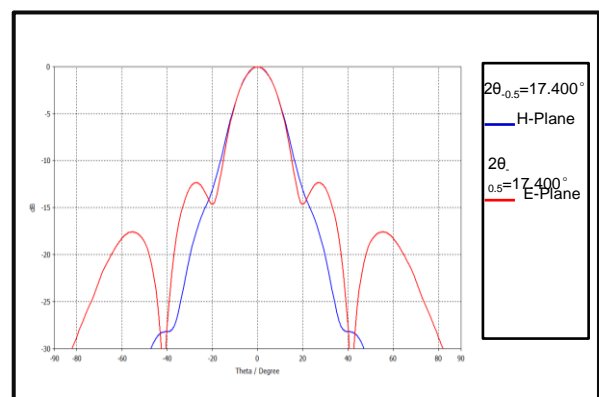
**Typical Direction Pattern (8.28GHz)**



**Typical Direction Pattern (9.99GHz)**



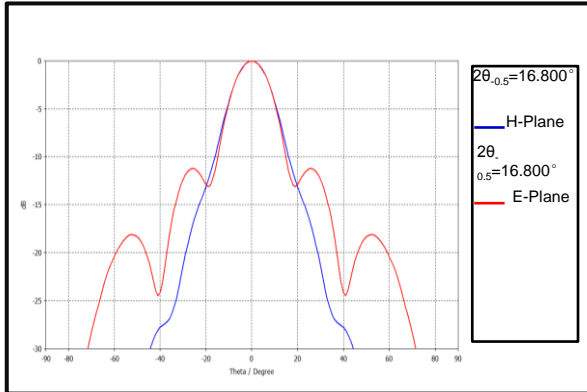
**The measured typical pattern in other frequency points (6.912GHz)**



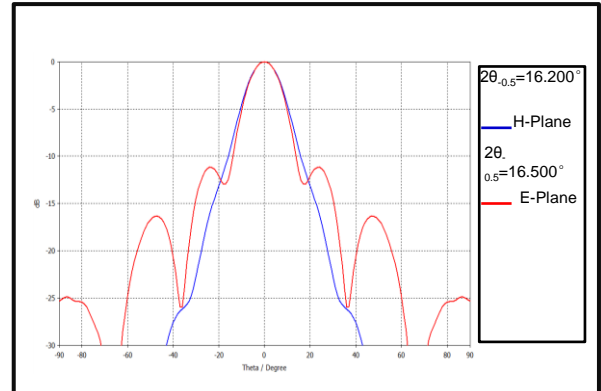
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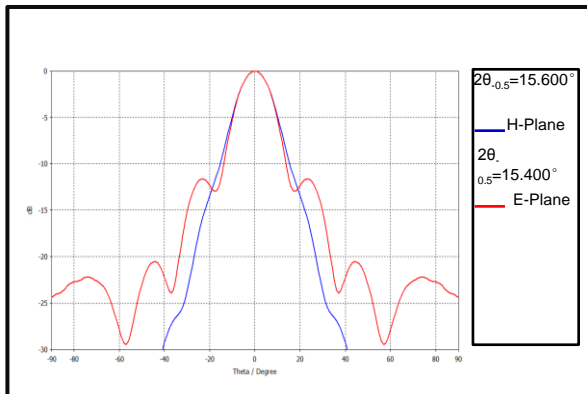
The measured typical pattern in other frequency points (7.254GHz)



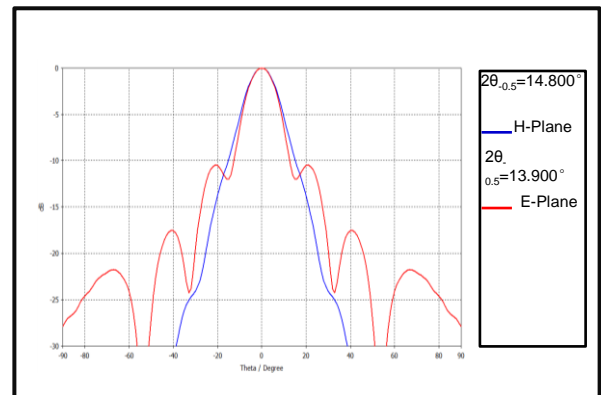
The measured typical pattern in other frequency points (7.596GHz)



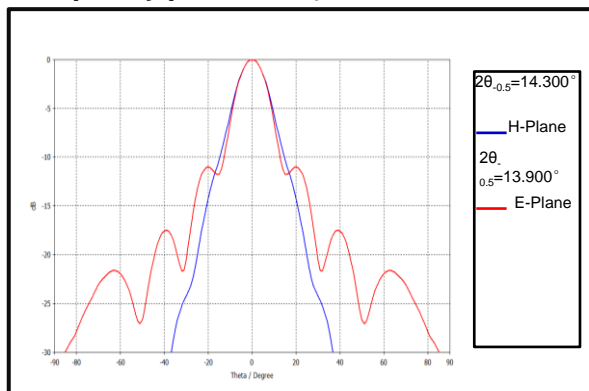
The measured typical pattern in other frequency points (7.938GHz)



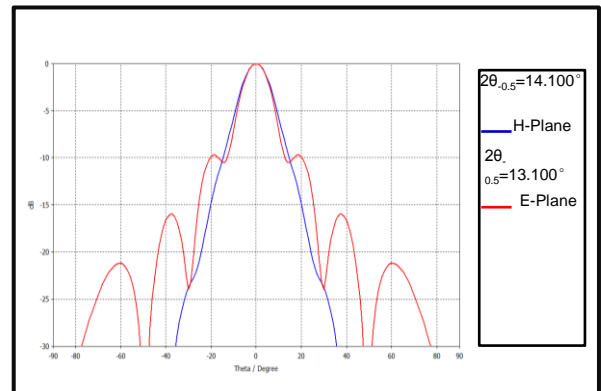
The measured typical pattern in other frequency points (8.622GHz)



The measured typical pattern in other frequency points (8.964GHz)

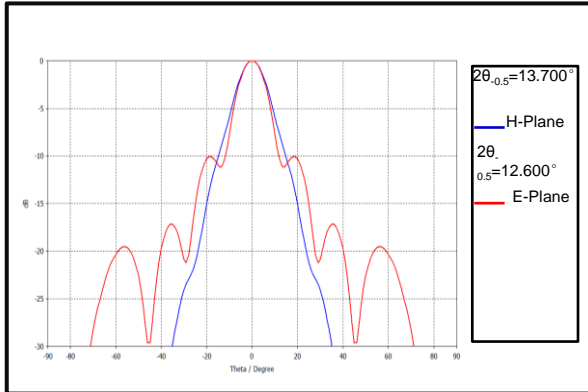


The measured typical pattern in other frequency points (9.306GHz)

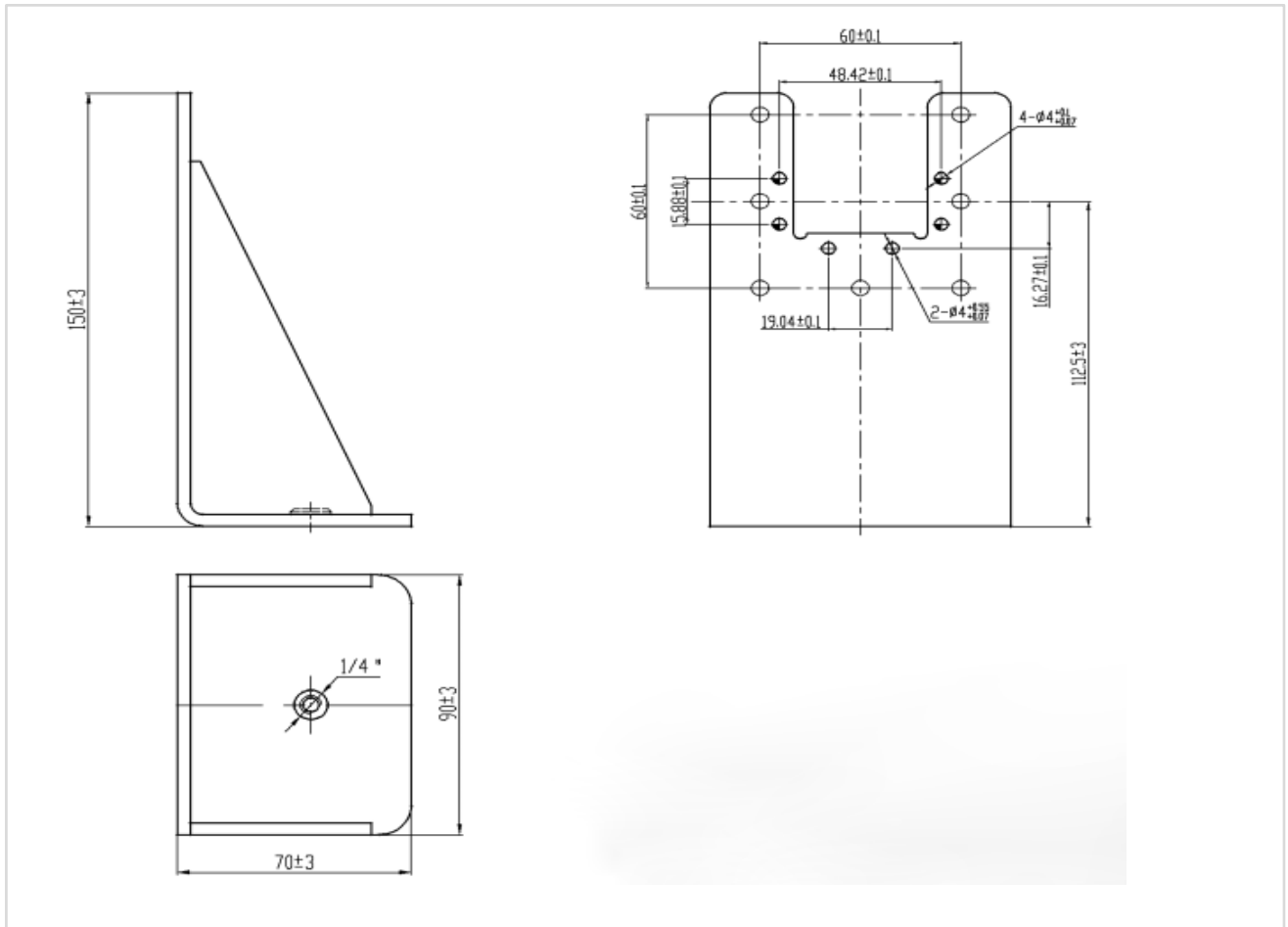




The measured typical pattern in other frequency points (9.648GHz)



Standard gain antenna L-type bracket connection

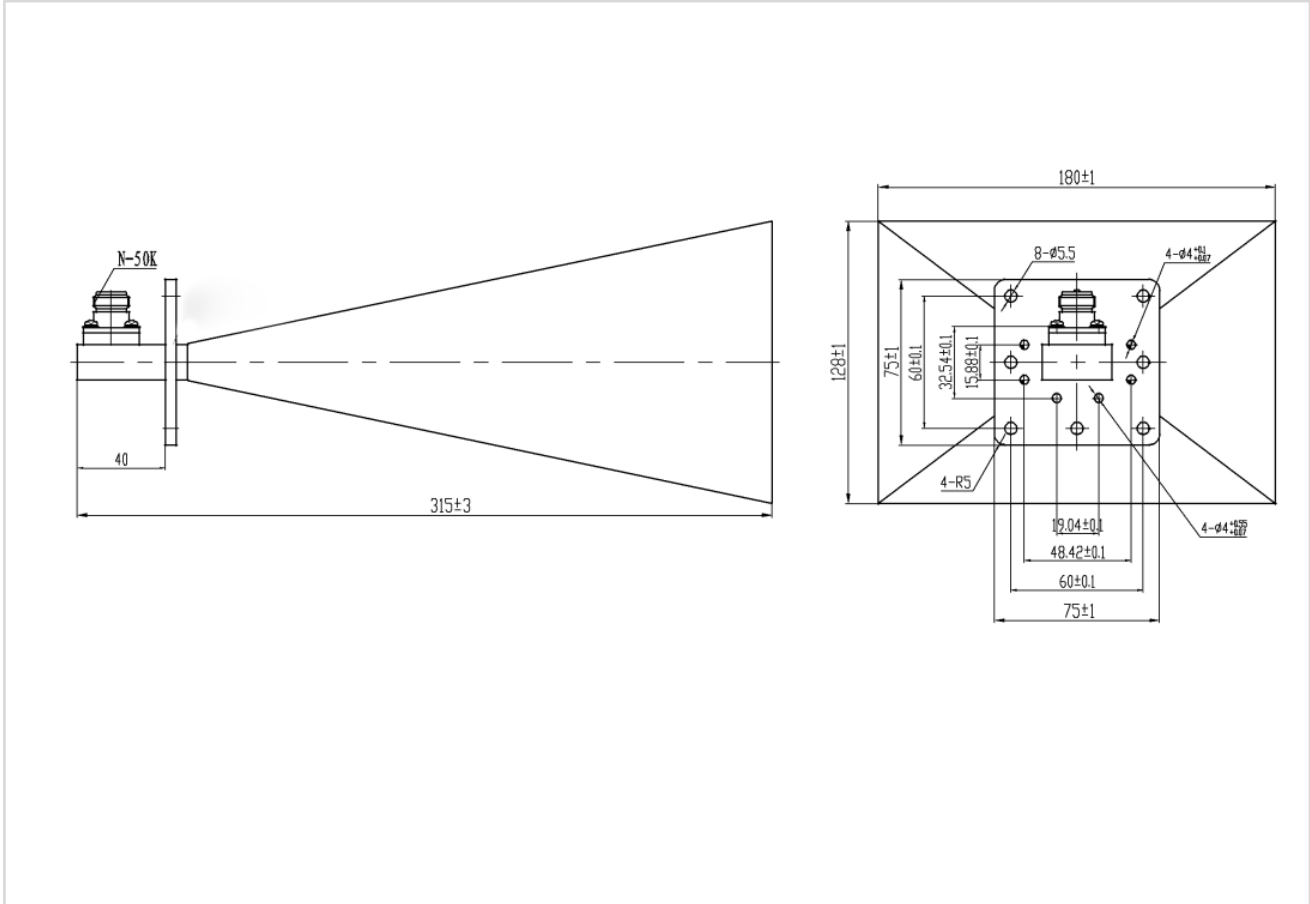


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**Outline Drawing:**

All Dimensions in mm (inches)



**Important Notice**

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### Using Notices

1. Standard gain horn is precise calibration equipment. It should be protected from rain, bump and taken and put down carefully.
2. In operation, operators should take protecting measurements. Do not touch coating surface by hands directly, to avoid the damage to the coating surface.
3. The interface is coaxial connector. Guarantee the matched installation of connector. Use torque spanner to disassembly and assembly. Take necessary fixation to external cables. This connector can only transfer microwave signal and cannot bear external force. It cannot be used to support and fix external cables. Otherwise it will be damaged.
4. After using, the product should be cleaned and the connector should be covered by protection cap.

### Warranty

Without special situations, the antenna is forbidden to disassembly. The products are guaranteed to be free from defects in materials and workmanship for one year from the date of shipment.