

Standard Gain Horn Antenna  
10dBi Typ. Gain, 11.9-18 GHz Frequency Range

## Standard Gain Horn Antenna Data Sheet

**RM-SGHA62-10**

### Features

- Wave-guide and Connector Interface
- Low Side-lobe
- Linear Polarization
- High Return Loss

### Descriptions

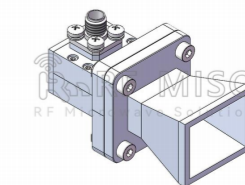
RF MISO's **Model RM-SGHA62-10** is a linear polarized standard gain horn antenna that operates from 11.9 to 18 GHz. The antenna offers a typical gain of 10 dBi and low VSWR 1.3:1. The antenna has a typical 3dB beamwidth of 51.6 degrees on the E plane and 52.1 degrees on H plane. This antenna has flange input and coaxial input for customers to rotate. Antenna mounting brackets include ordinary L-type mounting bracket and rotating L-type bracket①

### Specifications

| Parameters              | Specification       |                 | Unit |
|-------------------------|---------------------|-----------------|------|
| Frequency Range         | 11.9-18             |                 | GHz  |
| Wave-guide              | WR62                |                 |      |
| Gain                    | 10 Typ.             |                 | dBi  |
| VSWR                    | 1.3 Typ.            |                 |      |
| Polarization            | Linear              |                 |      |
| 3 dB Beamwidth, E-Plane | 51.6° Typ.          |                 |      |
| 3 dB Beamwidth, H-Plane | 52.1° Typ.          |                 |      |
| Interface               | FBP140(F Type)      | SMA-KFD(C Type) |      |
| Material                | Al                  |                 |      |
| Finishing               | Paint               |                 |      |
| C Type Size (L*W*H)     | 56.9*33.3*33.3 (±5) |                 | mm   |
| Weight                  | 0.024(F Type)       | 0.041(C Type)   | kg   |
| C Type Average Power    | 50                  |                 | W    |
| C Type Peak Power       | 3000                |                 | W    |
| Operating Temperature   | -40° ~+85°          |                 | ° C  |

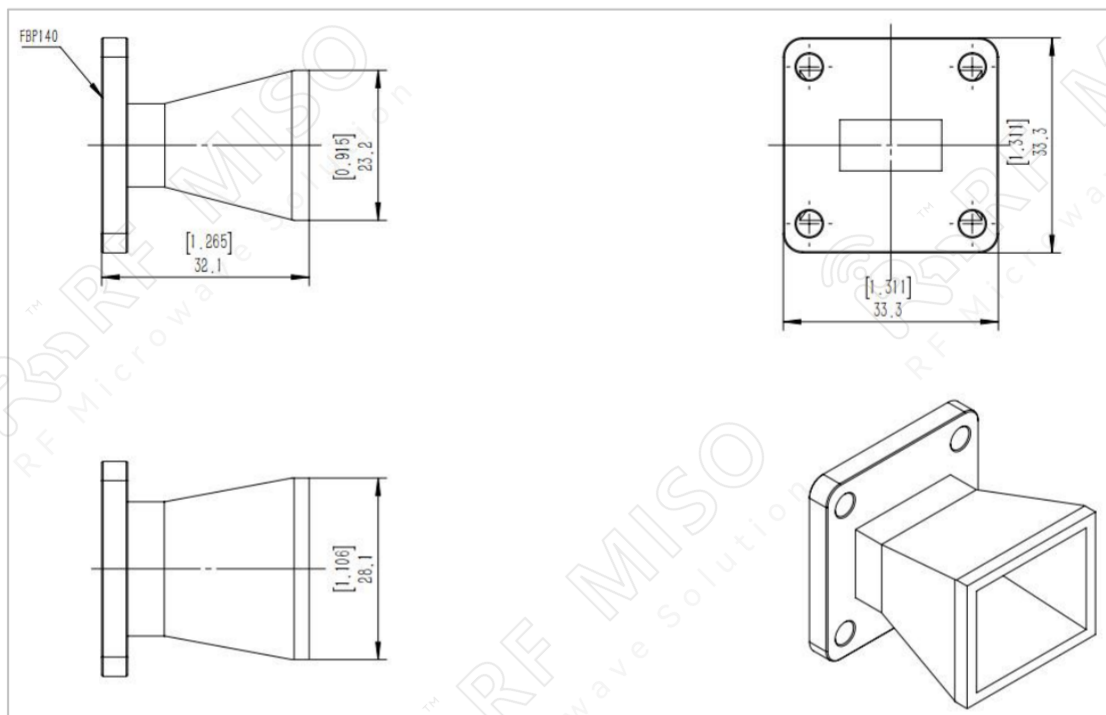
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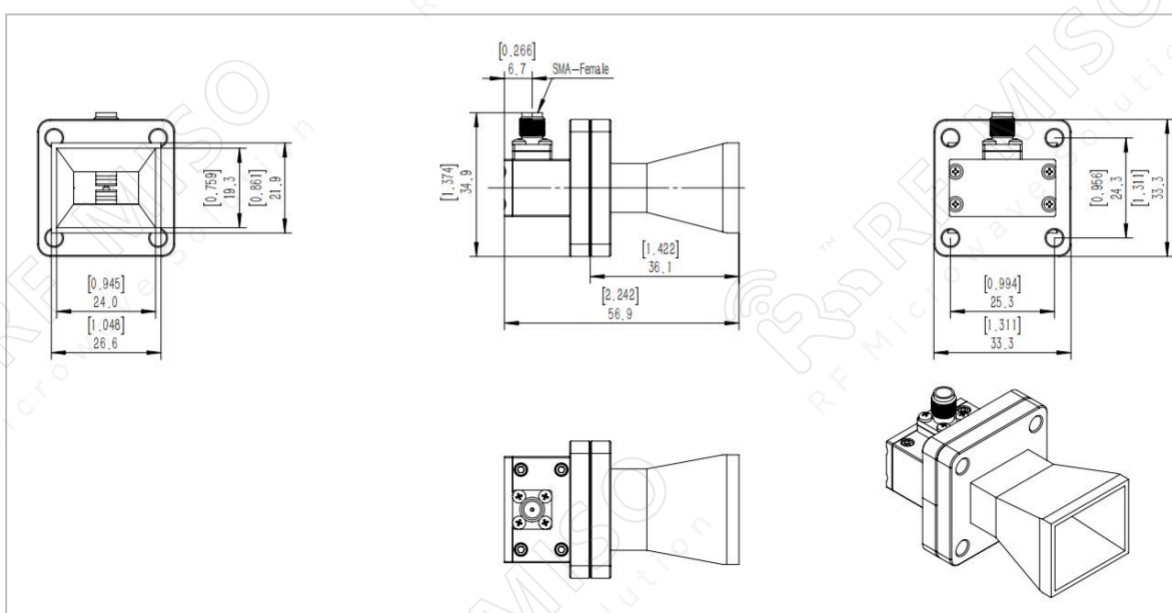
**RM-SGHA62-10**

### F-Type Mechanical Drawing (P/N: RM-SGHA62-10F)

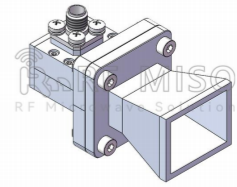


### C-Type Mechanical Drawing (P/N: RM-SGHA62-10C)

N-type connector is available, please contact RF Miso.



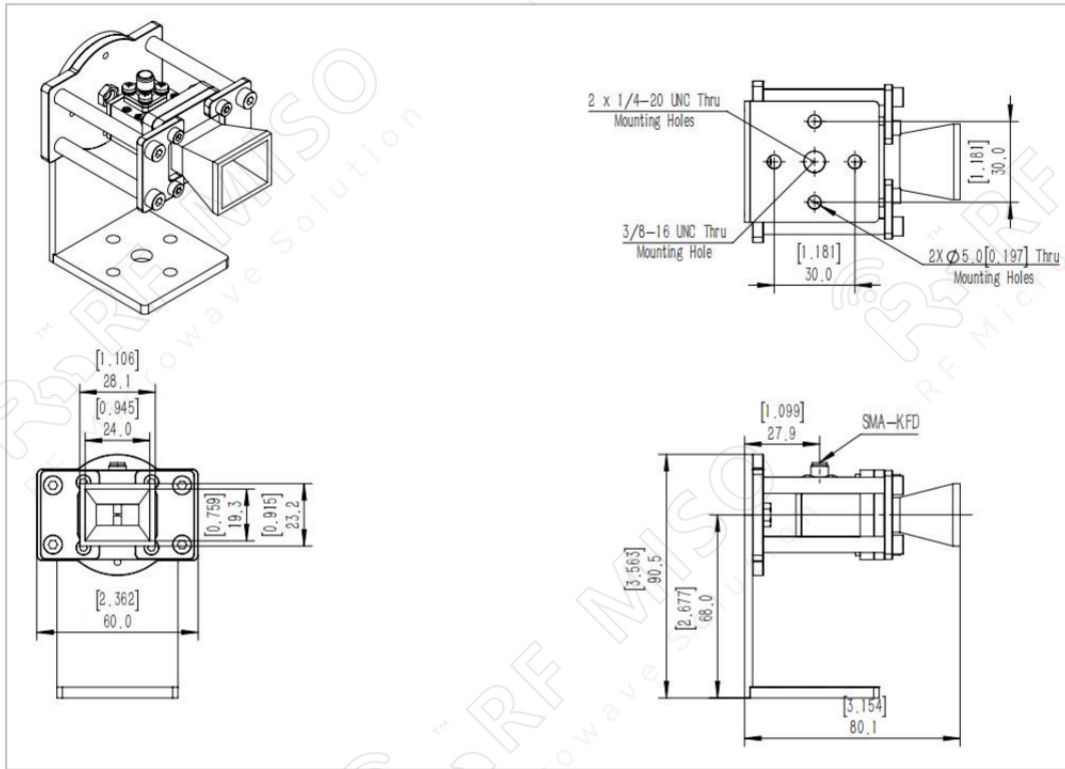
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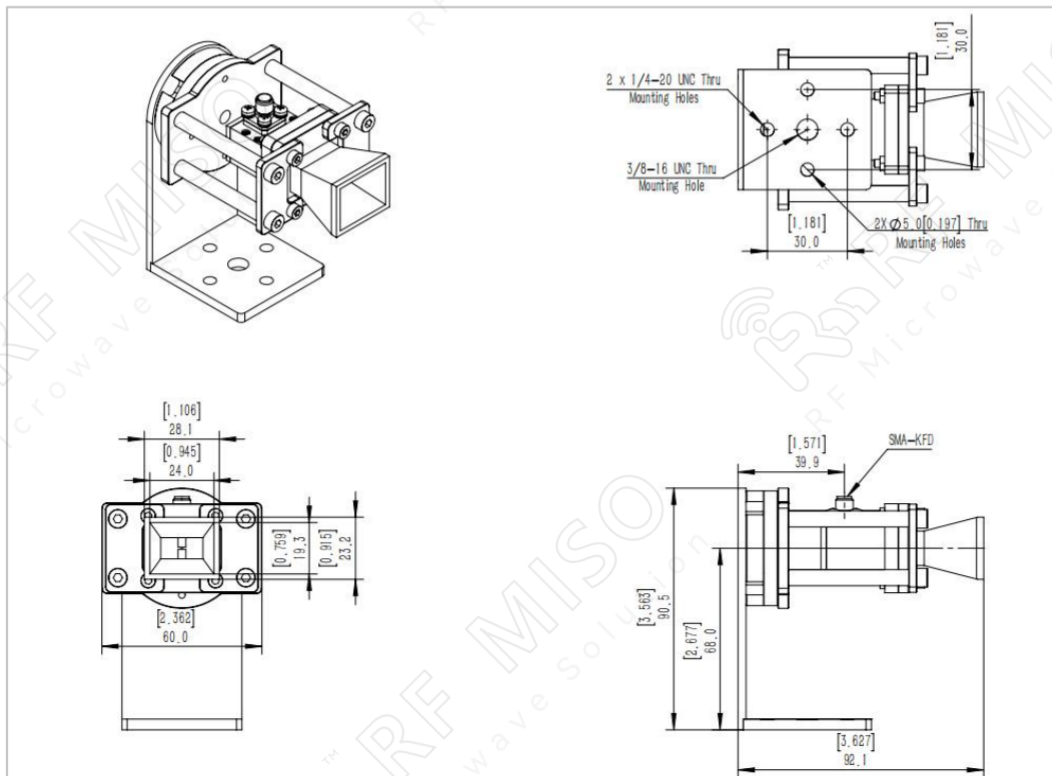
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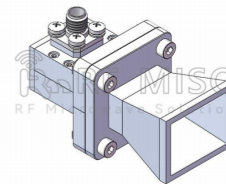
**RM-SGHA62-10**

### Mechanical Drawing with Ordinary L-type Mounting Bracket (P/N: RM-SGHA62-10CL)



### Mechanical Drawing with Rotating L-type Mounting Bracket (P/N: RM-SGHA62-10CR)



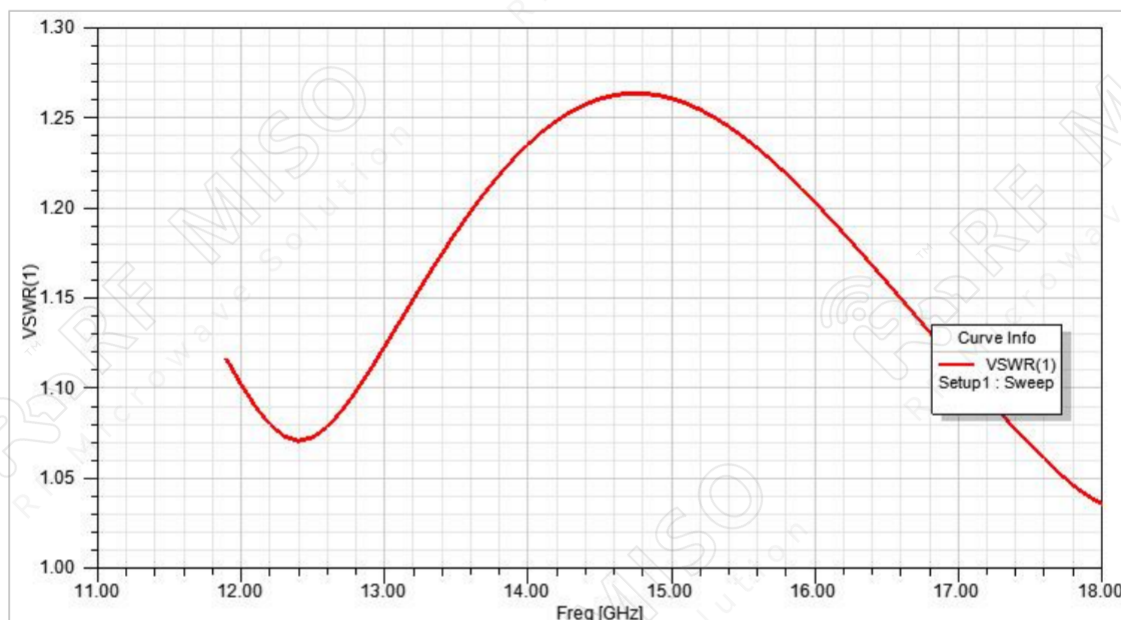


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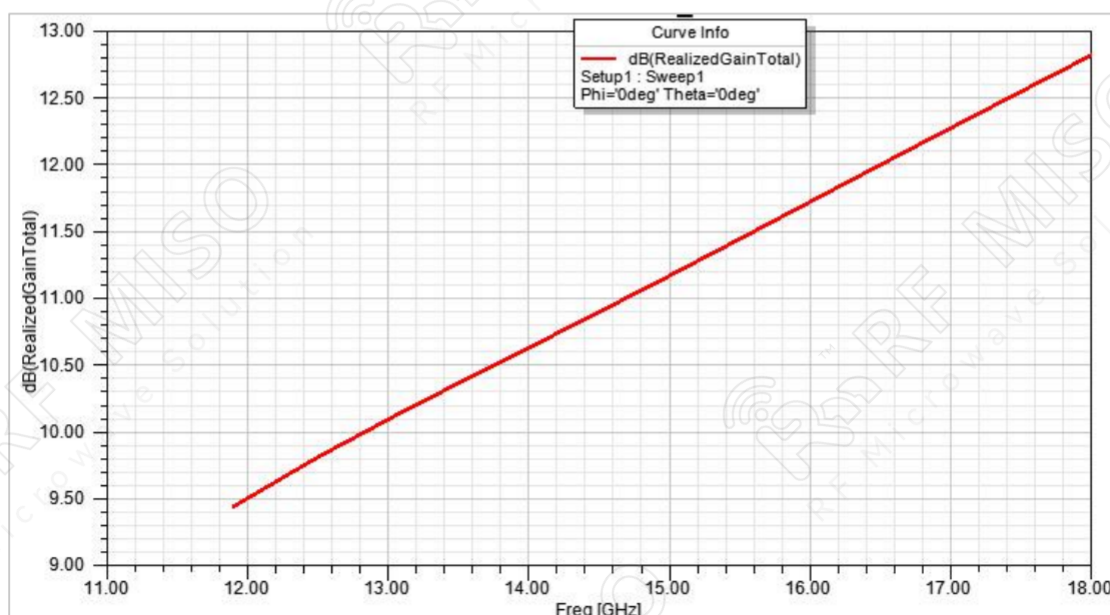
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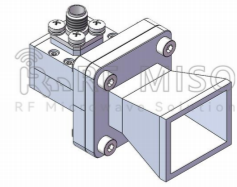
### VSWR



### Gain





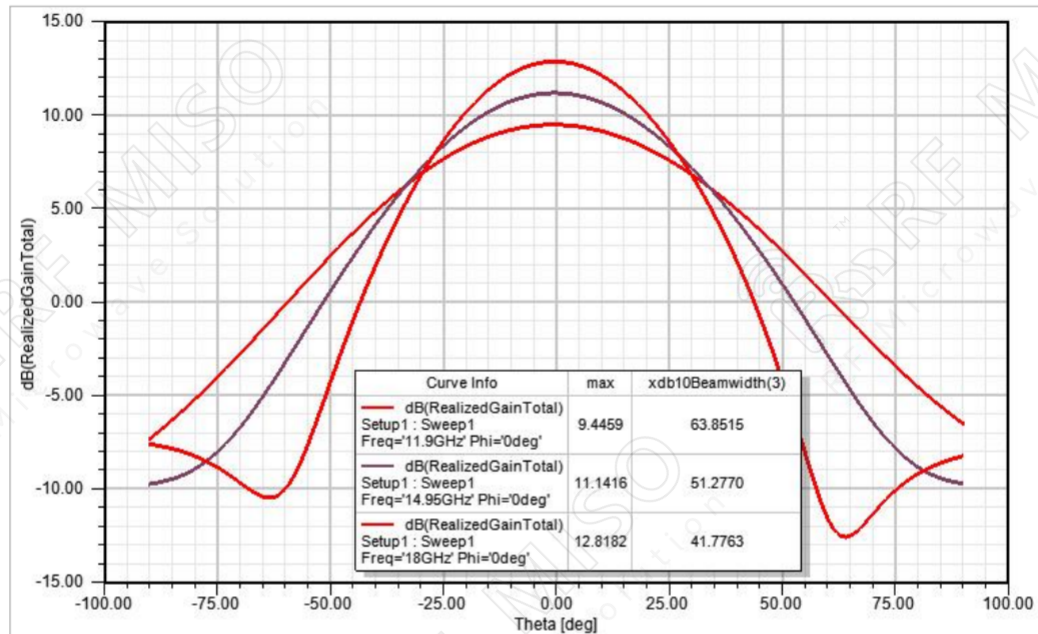


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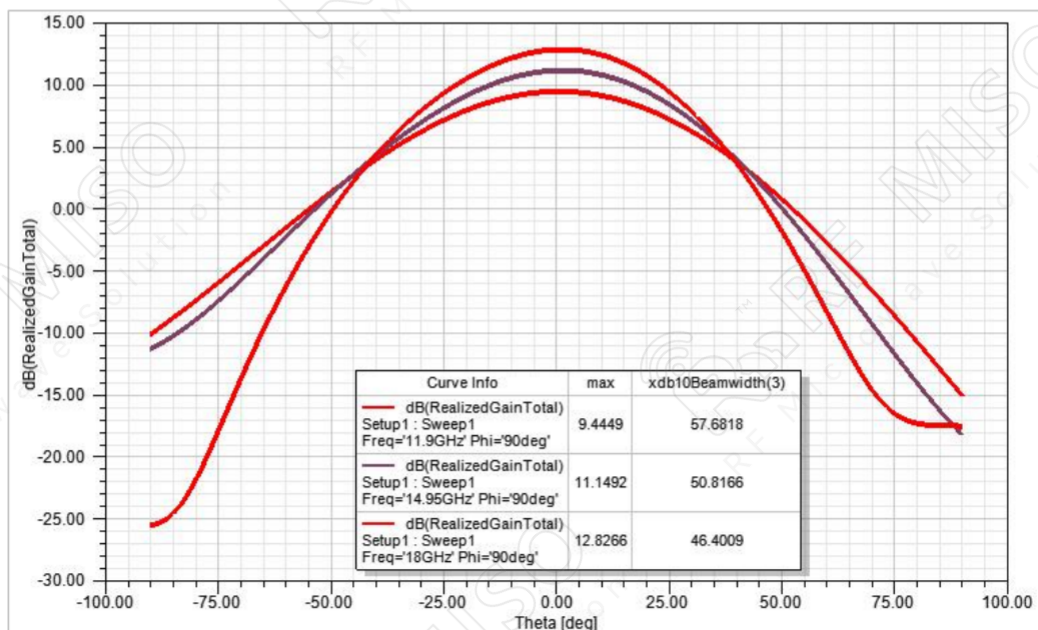
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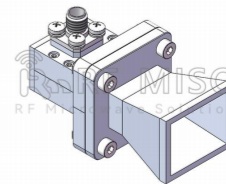
### Gain Pattern E-plane



### Gain Pattern H-plane



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① **Rotating L-type bracket:** The rotating bracket is used for antenna polarization adjustment, and the tooling integrated with the bracket can precisely adjust the polarization directions of  $0^\circ$ ,  $45^\circ$ , and  $90^\circ$  to ensure the accuracy and consistency of the calibration results.

Note:

- If the data presented is simulated. Actual data may vary unit to unit, slightly.
- Any foreign objects in the wave-guide will cause performance degradation and possible device damage.
- We can customize antennas according to your specific needs.