

## Standard Gain Horn Antenna Data Sheet

**RM-SGHA187-10**

### Features

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

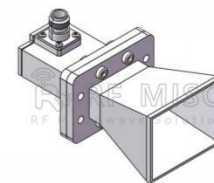
### Descriptions

RF MISO's **Model RM-SGHA187-10** is a linear polarized standard gain horn antenna that operates from 3.95 to 5.85 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         | 3.95-5.85            |                    | GHz  |
| Wave-guide              | WR187                |                    |      |
| 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               | FDP48(F Type)        | SMA-Female(C Type) |      |
| Material                | Al                   |                    |      |
| Finishing               | Paint                |                    |      |
| Size,C Type (L*W*H)     | 149.7*88.9*62.2 (±5) |                    | mm   |
| Weight                  | 0.213(F Type)        | 0.469(C Type)      | kg   |
| C Type Average Power    | 150                  |                    | w    |
| C Type Peak Power       | 3000                 |                    | w    |
| Operating Temperature   | -40° ~+85°           |                    | ° C  |

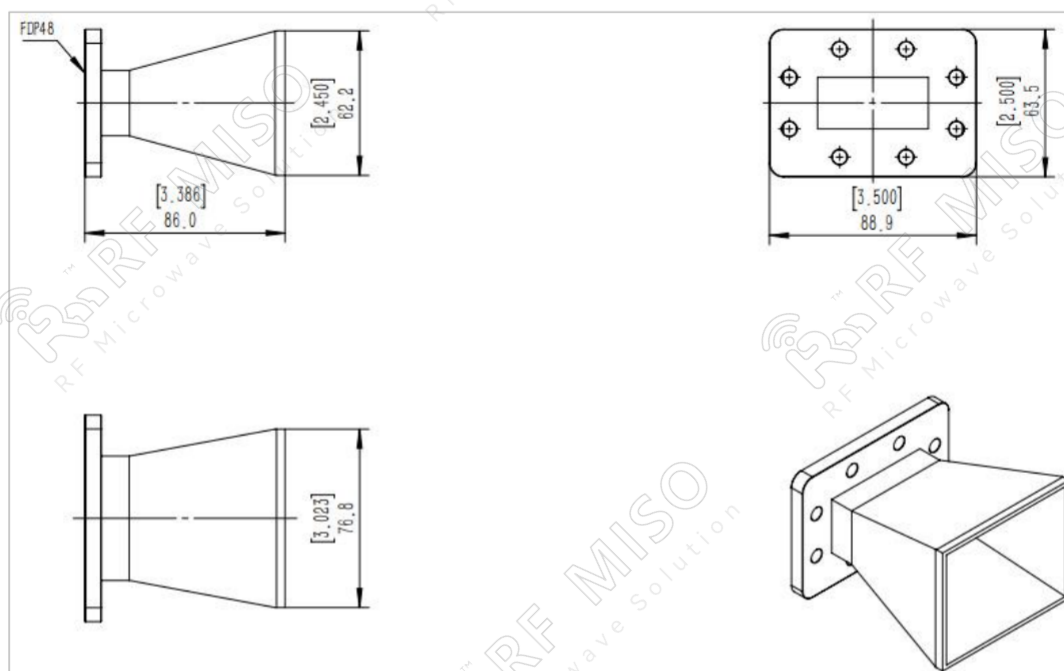
Standard Gain Horn Antenna  
10dBi Typ. Gain, 3.95-5.85 GHz Frequency Range



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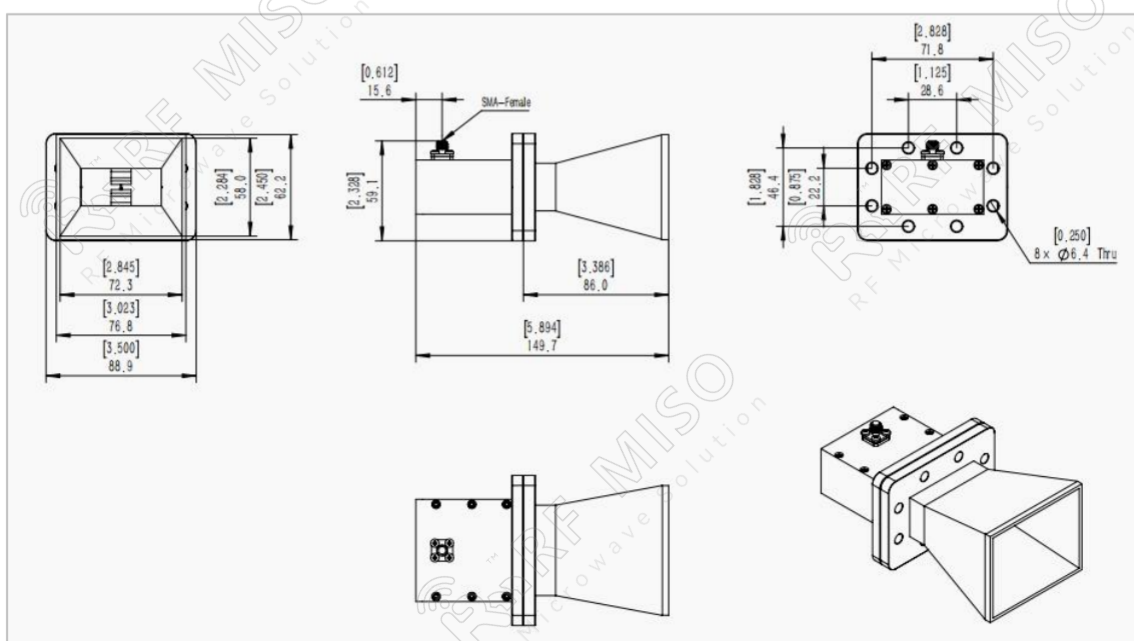
**RM-SGHA187-10**

### F-Type Mechanical Drawing (P/N: RM-SGHA187-10F)

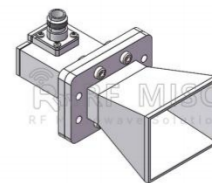


### C-Type Mechanical Drawing (P/N: RM-SGHA187-10C)

N connector is available, please contact RF Miso.



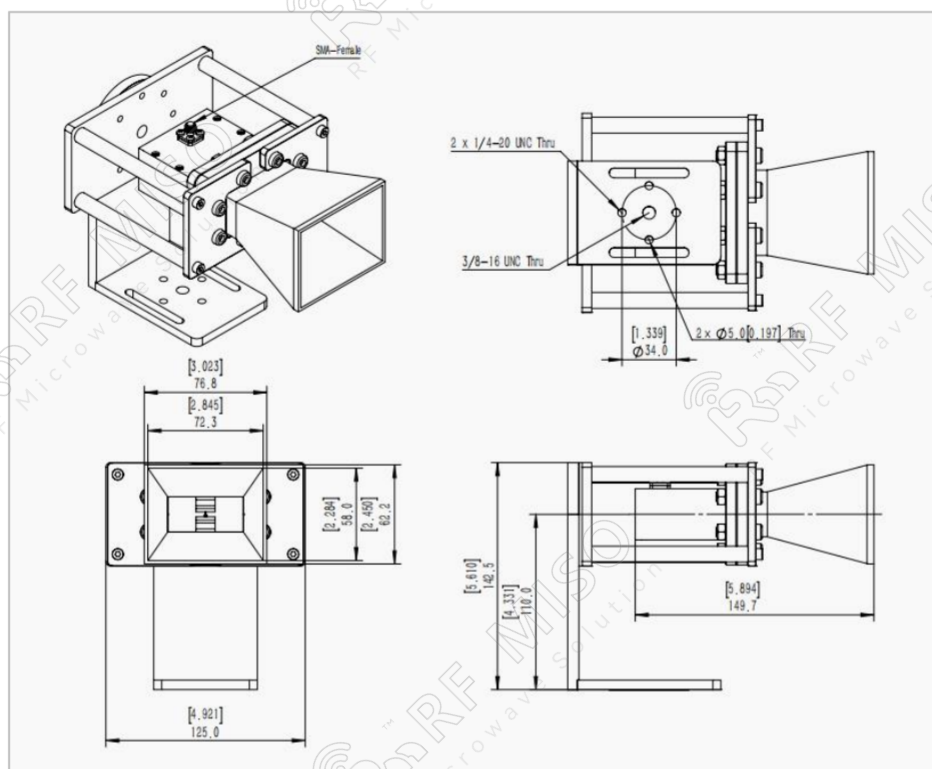
Standard Gain Horn Antenna  
10dBi Typ. Gain, 3.95-5.85 GHz Frequency Range



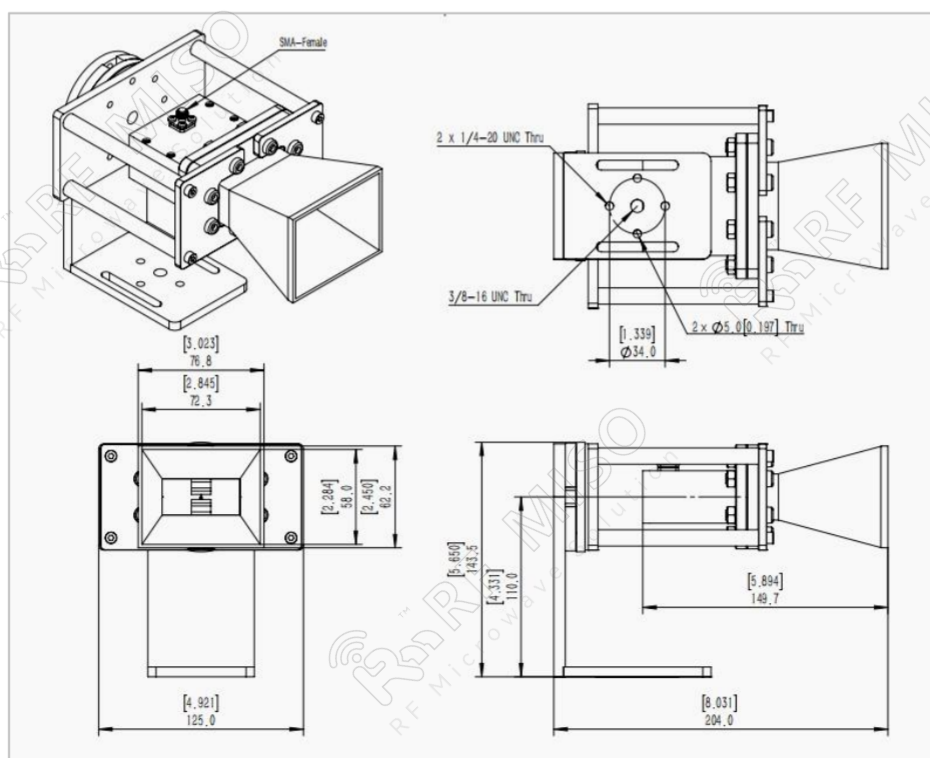
## Standard Gain Horn Antenna Data Sheet

**RM-SGHA187-10**

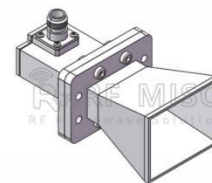
### Mechanical Drawing with Ordinary L-type Mounting Bracket (P/N: RM-SGHA187-10CL)



### Mechanical Drawing with Rotating L-type Mounting Bracket (P/N: RM-SGHA187-10CR)



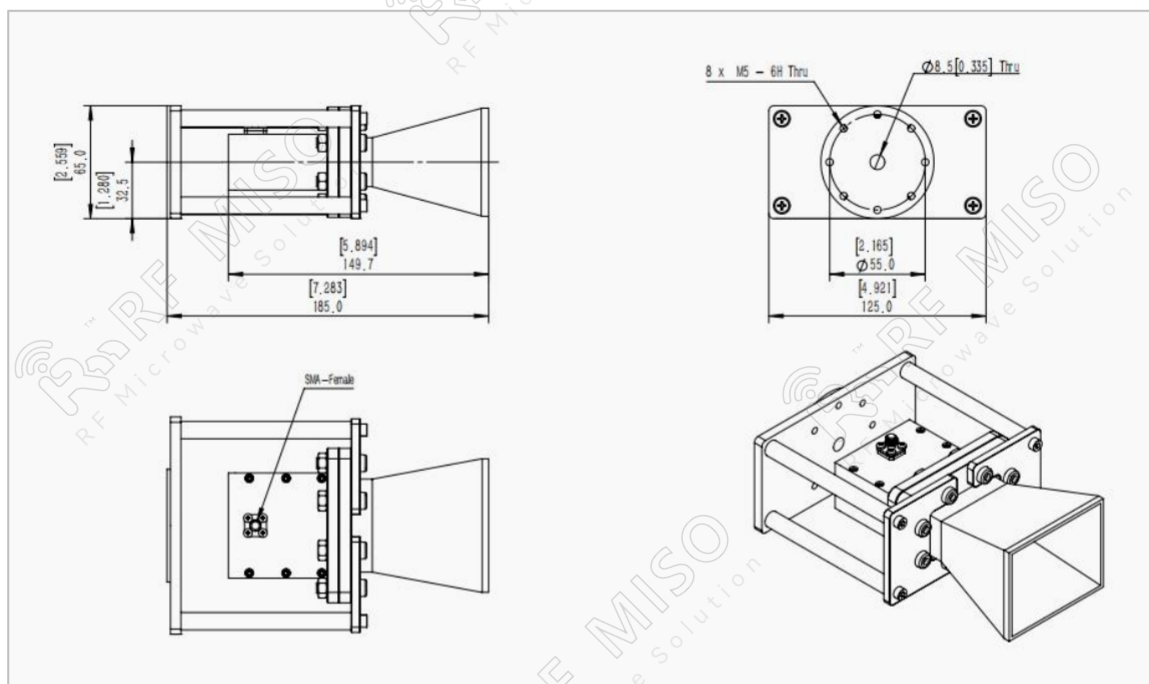
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10dBi Typ. Gain, 3.95-5.85 GHz Frequency Range



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**RM-SGHA187-10**

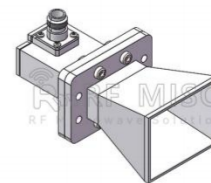
### Mechanical Drawing with Ordinary I-type Mounting Bracket (P/N: RM-SGHA187-10CI)



### VSWR





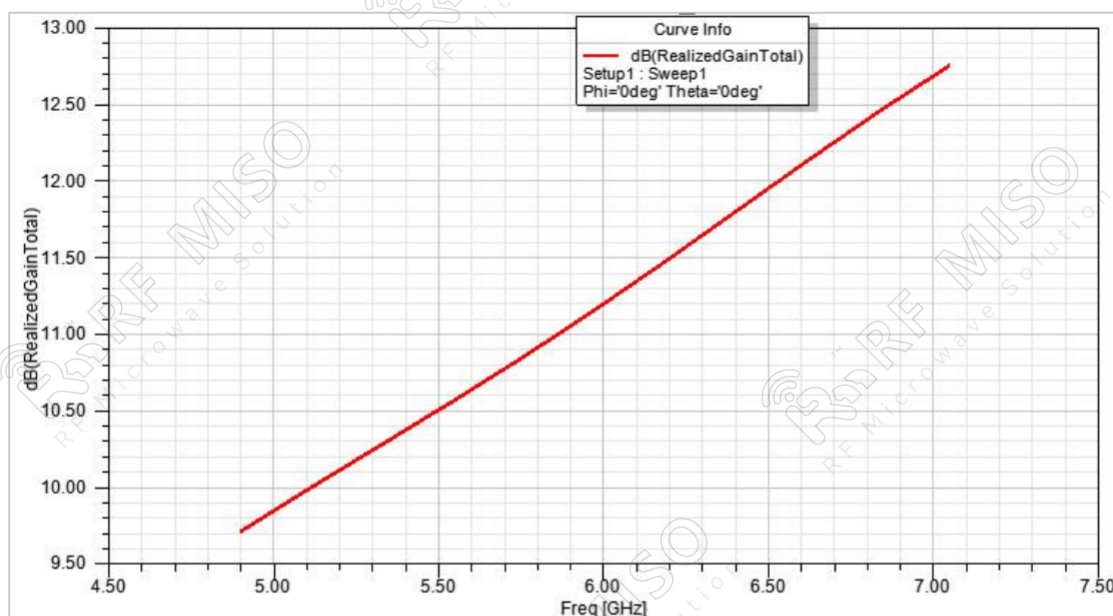


Standard Gain Horn Antenna  
10dBi Typ. Gain, 3.95-5.85 GHz Frequency Range

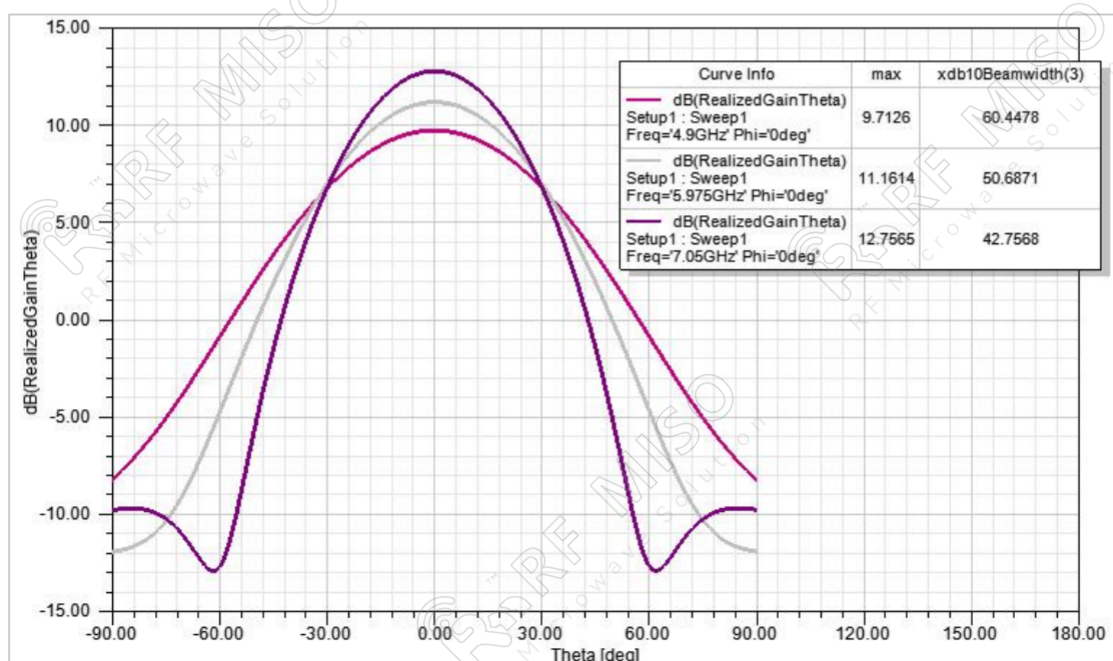
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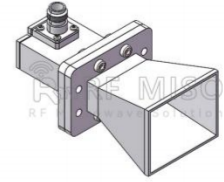
**RM-SGHA187-10**

### Gain



### Gain Pattern E-plane

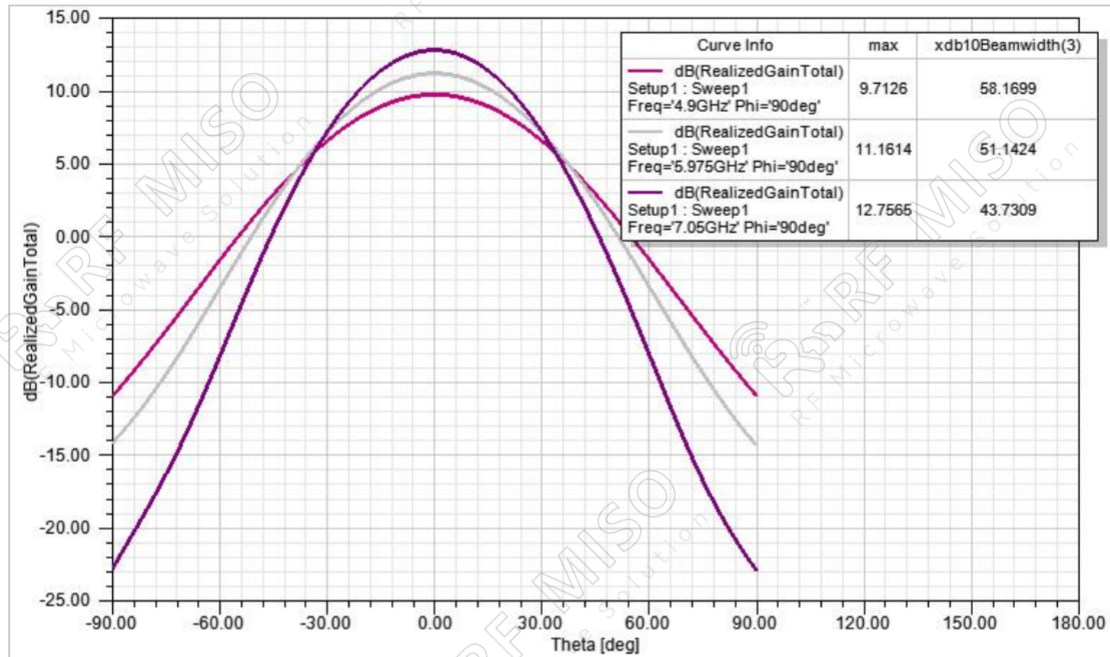




## Standard Gain Horn Antenna Data Sheet

**RM-SGHA187-10**

Gain Pattern H-plane



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.