

Standard Gain Horn Antenna
 20dBi Typ. Gain, 8.2-12.5 GHz Frequency Range

Standard Gain Horn Antenna Data Sheet

RM-SGHA90-20

Features

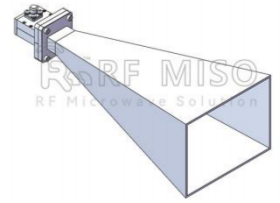
- Wave-guide and Connector Interface
- Low Side-lobe
- Linear Polarization
- High Return Loss

Descriptions

RF MISO's **Model RM-SGHA90-20** is a linear polarized standard gain horn antenna that operates from 8.2 to 12.5 GHz. The antenna offers a typical gain of 15 dBi and low VSWR 1.3:1. The antenna has a typical 3dB beamwidth of 17.3 degrees on the E plane and 17.5 degrees on H plane. This antenna has flange input and coaxial input for customers to rotate. Antenna mounting brackets include ordinary L-type, I-type mounting bracket and rotating L-type bracket^①

Specifications

Parameters	Specification		Unit
Frequency Range	8.2-12.5		GHz
Wave-guide	WR90		
Gain	15 Typ.		dBi
VSWR	1.3 Typ.		
Polarization	Linear		
3 dB Beamwidth, E-Plane	17.3° Typ.		
3 dB Beamwidth, H-Plane	17.5° Typ.		
Interface	FBP100(F Type)	SMA-F(C Type)	
Material	Al		
Finishing	Paint		
Size,C Type (L*W*H)	267.3*115.9*87 (±5)		mm
Weight	0.311(F Type)	0.363(C Type)	kg
C Type Average Power	50		W
C Type Peak Power	3000		W
Operating Temperature	-40° ~+85°		° C

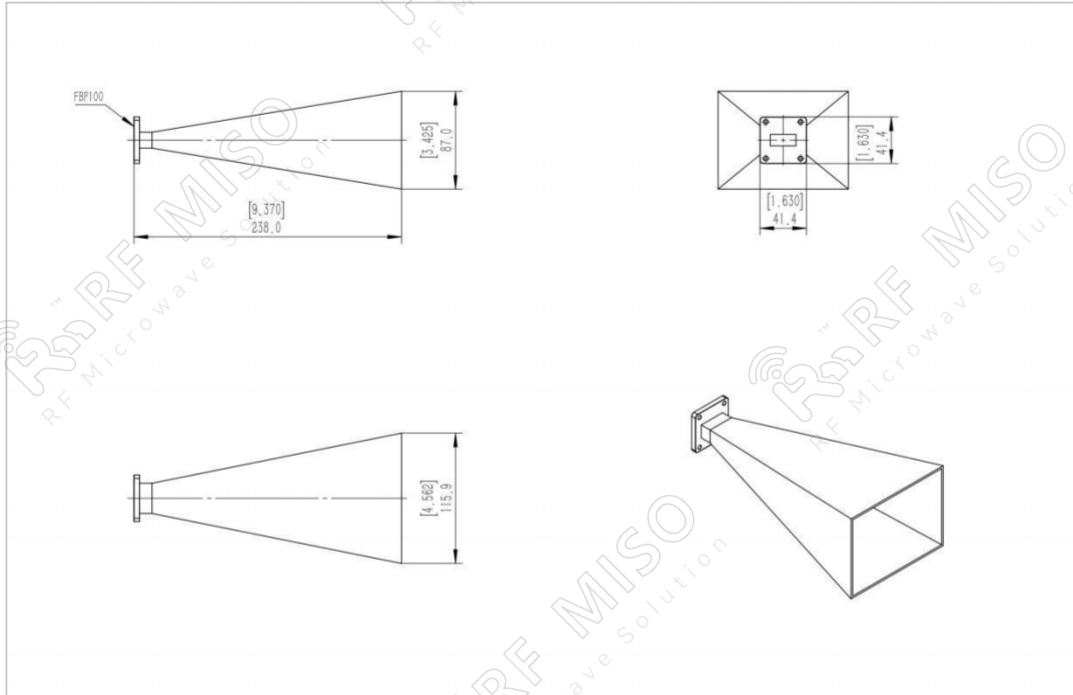


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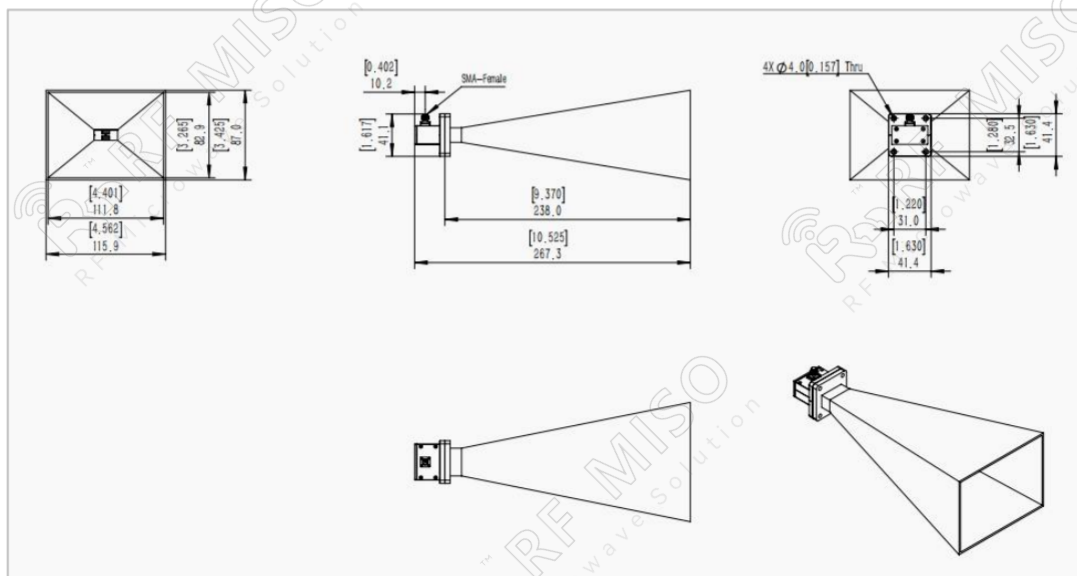
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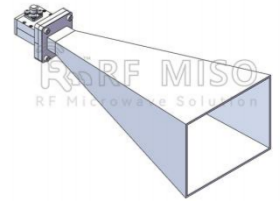
F-Type Mechanical Drawing (P/N: RM-SGHA90-20F)



C-Type Mechanical Drawing (P/N: RM-SGHA90-20C)

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



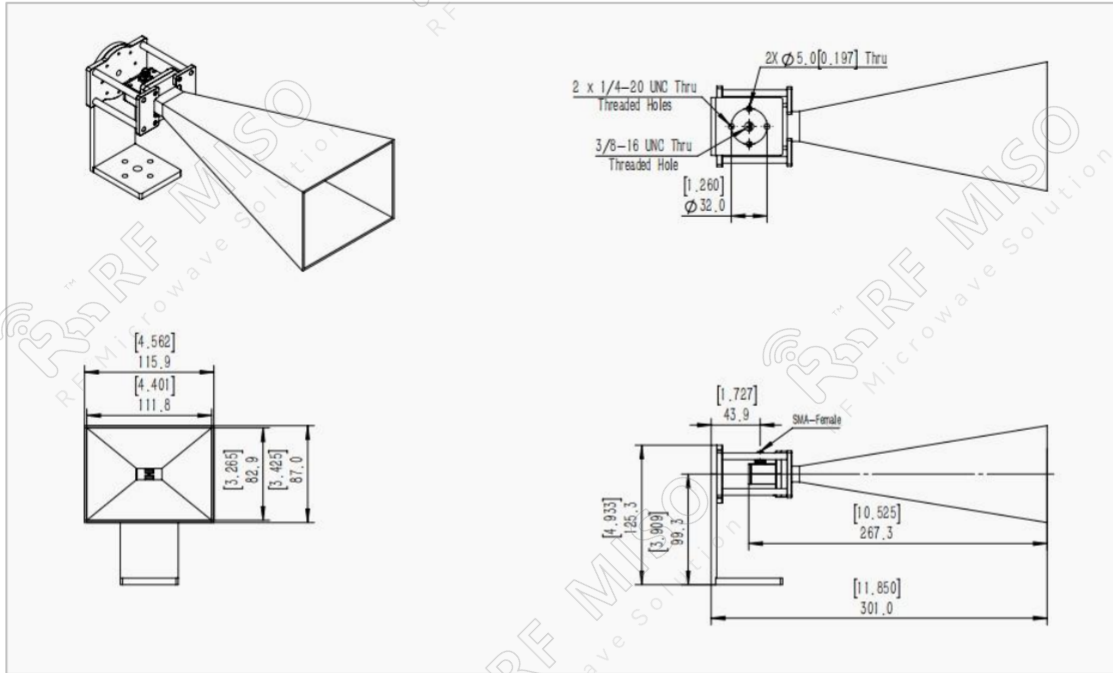


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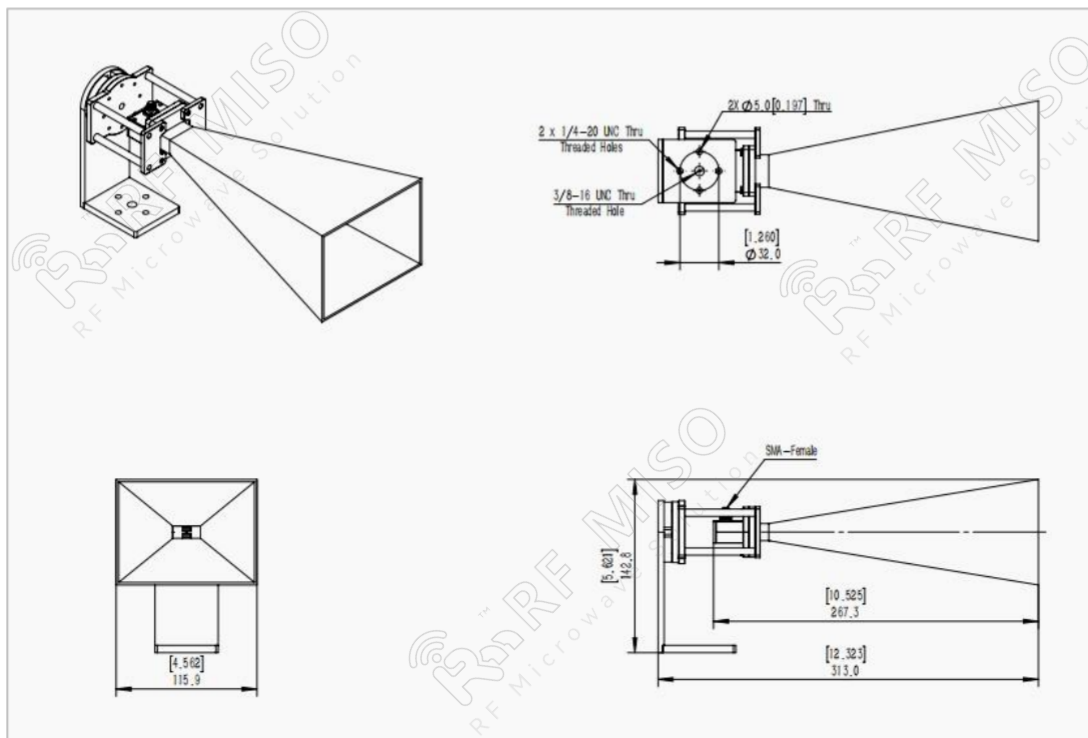
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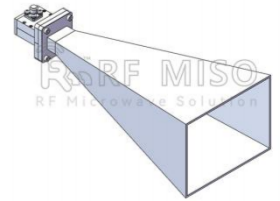
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Mechanical Drawing with Ordinary L-type Mounting Bracket (P/N: RM-SGHA90-20CL)



Mechanical Drawing with Rotating L-type Mounting Bracket (P/N: RM-SGHA90-20CR)



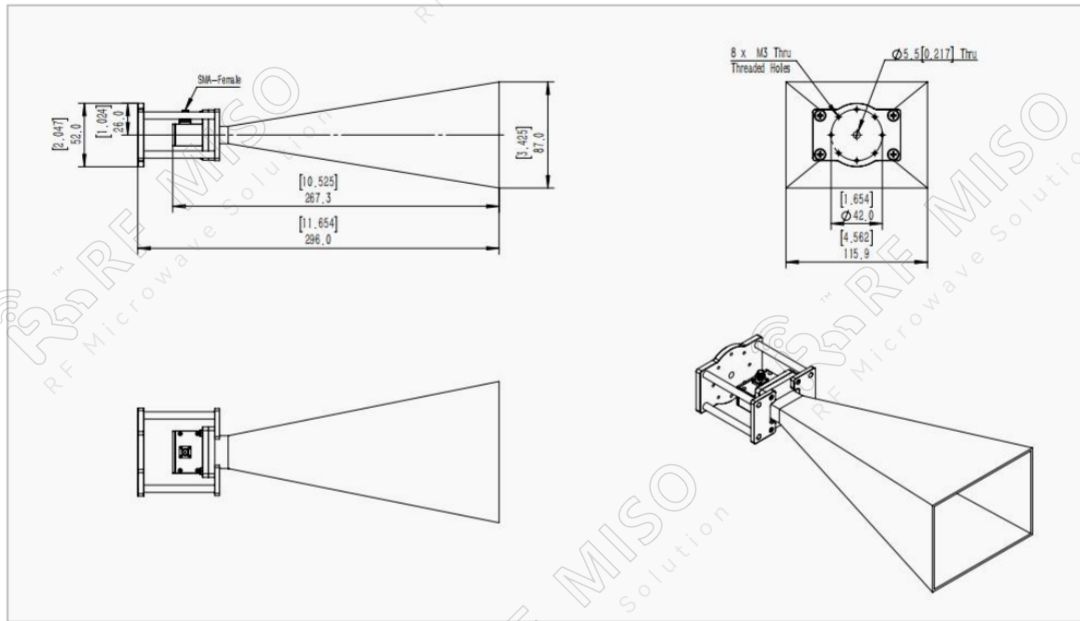


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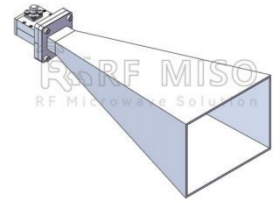
Mechanical Drawing with Ordinary I-type Mounting Bracket (P/N: RM-SGHA90-20CI)



Simulation Data

VSWR



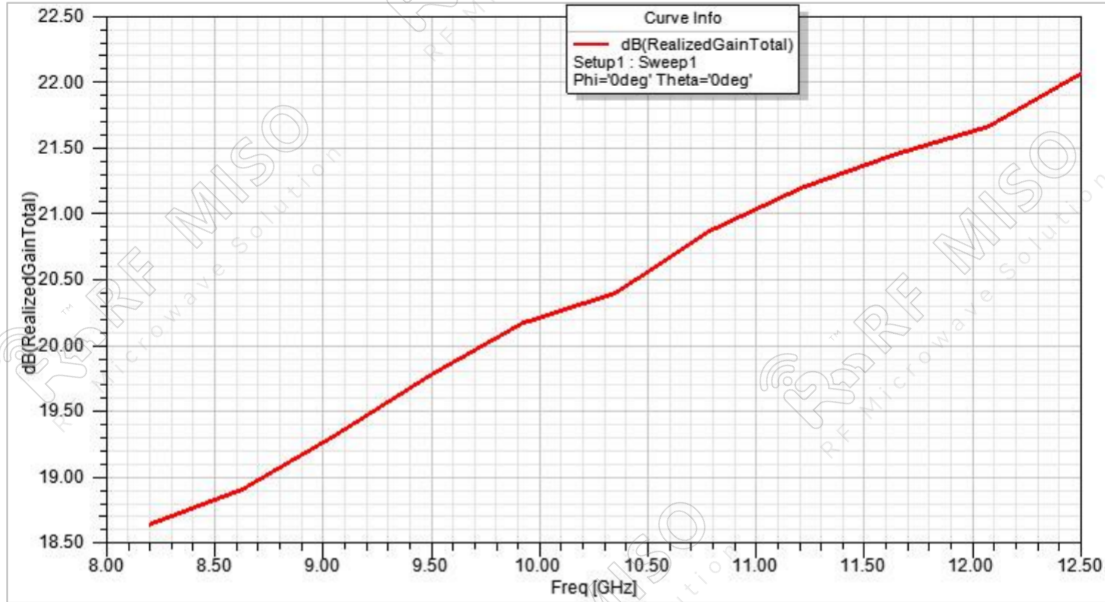


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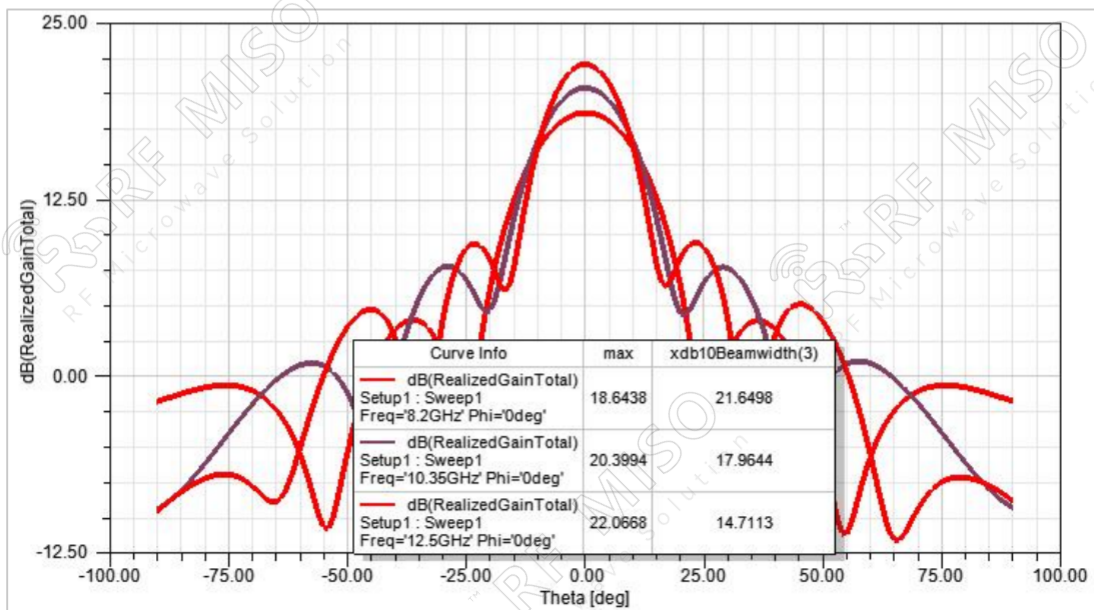
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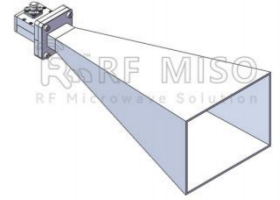
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Gain



Gain Pattern E-plane



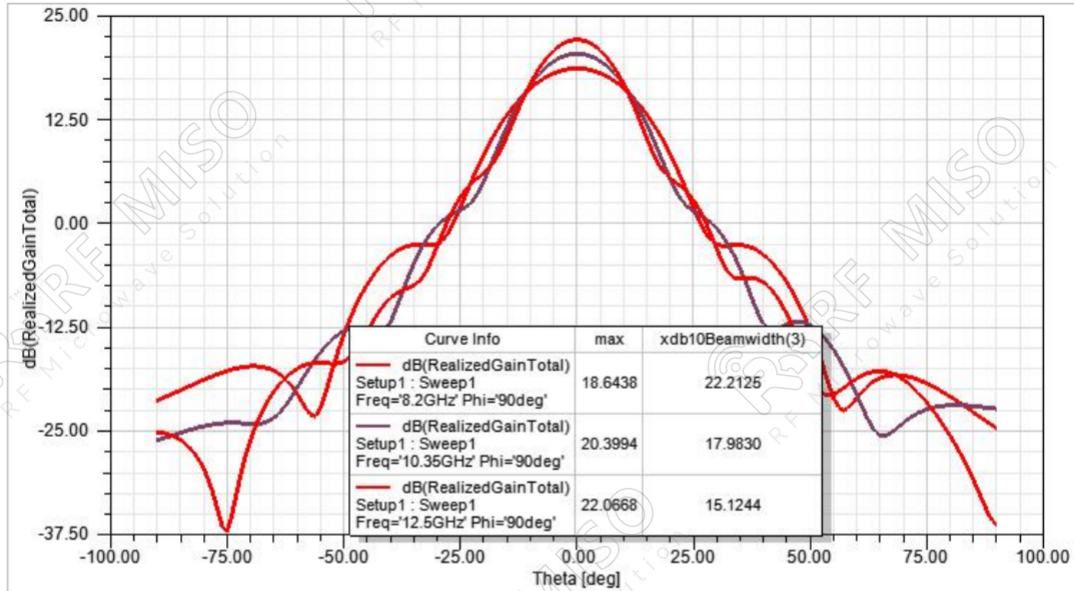


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Gain Pattern H-plane



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°, 45°, and 90° 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.