

*Standard Gain Horn Antenna*  
*10 dBi Typ. Gain, 75-110GHz Frequency Range*

## Standard Gain Horn Antenna Data

**RM-SGHA10-10**

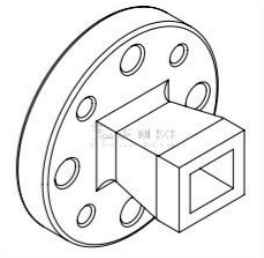
### Description

RF MISO's **Model RM-SGHA10-10** is a linear polarized standard gain horn antenna that operates from 75 to 110 GHz. The antenna offers a typical gain of 10 dBi and low VSWR <1.3, This antenna has flange input and coaxial input for customers to rotate.

### Specifications

RM-SGHA10-10			
Item	Specification		Units
Frequency Range	75-110		GHz
Wave-guide	WR10		
Gain	10 Typ.		dBi
VSWR	<1.3		
Polarization	Linear		
Cross Polarization	55 Typ.		dB
3dB Beamwidth	E-Plane:33.9-49.0	H-Plane:35.6-48.9	deg
Material	Brass		
Size	Ø19.05*12.73(±5)		mm
Weight	0.01		kg

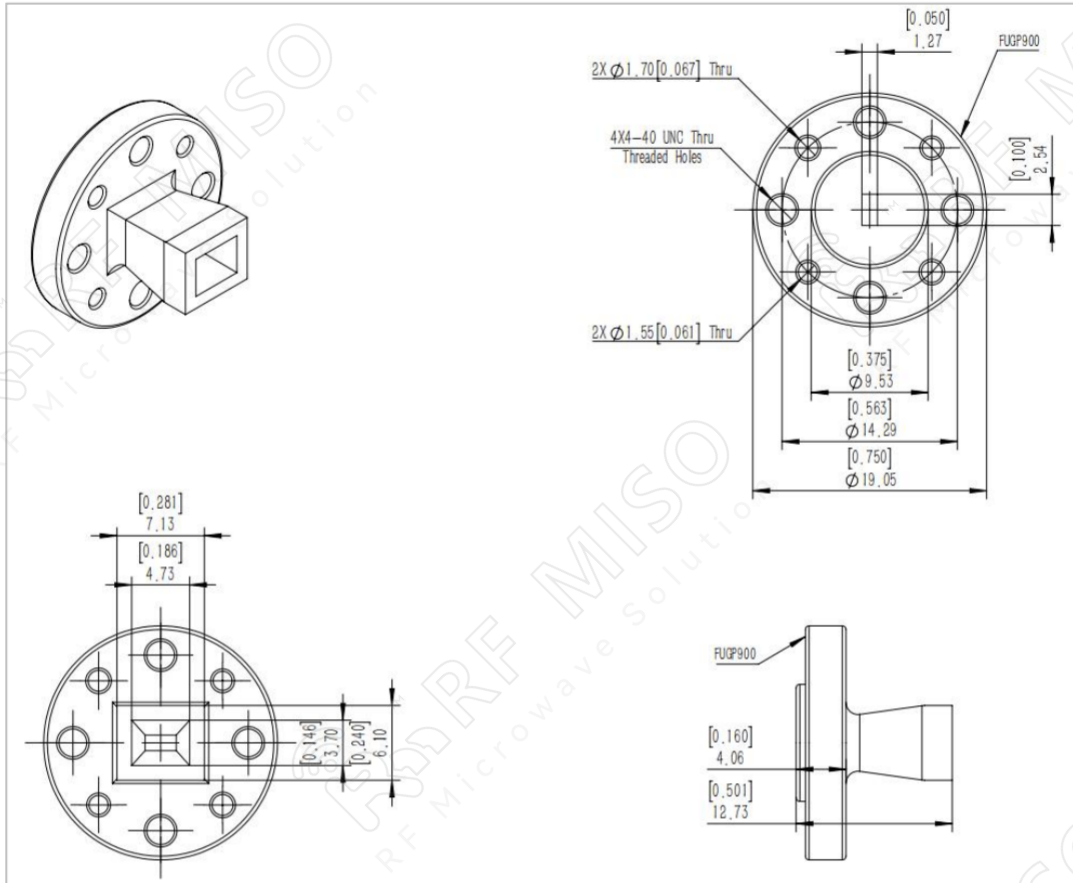
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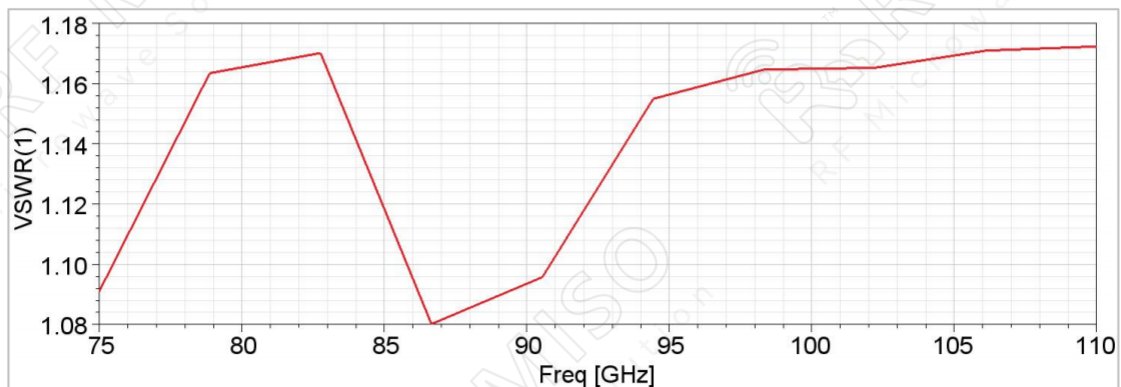
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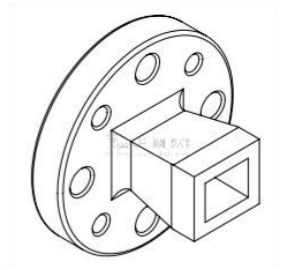
**Outline Drawing**



**Simulated Data**

**VSWR**



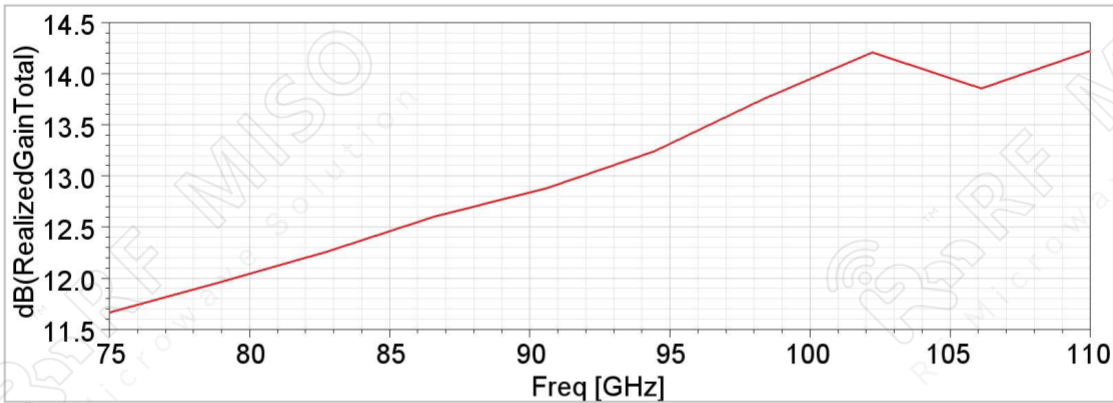


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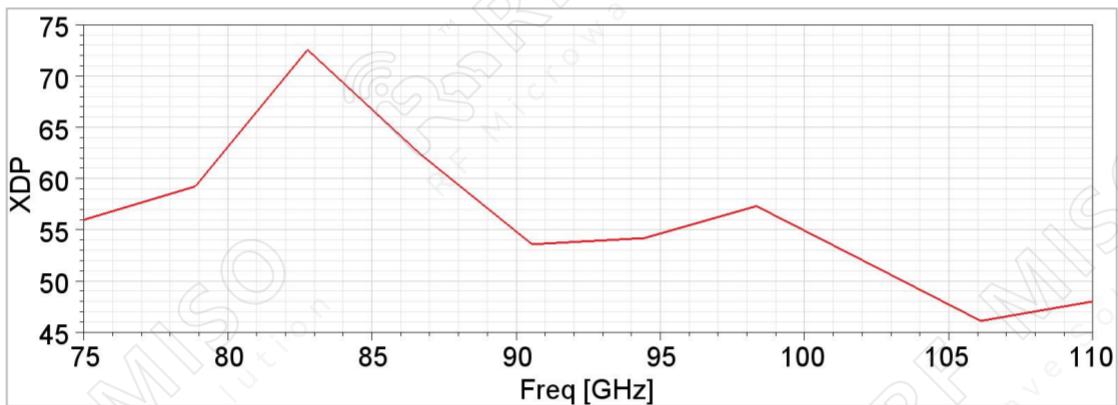
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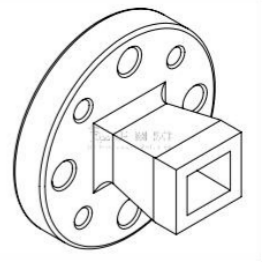
**RM-SGHA10-10**

Gain



Cross Polarization





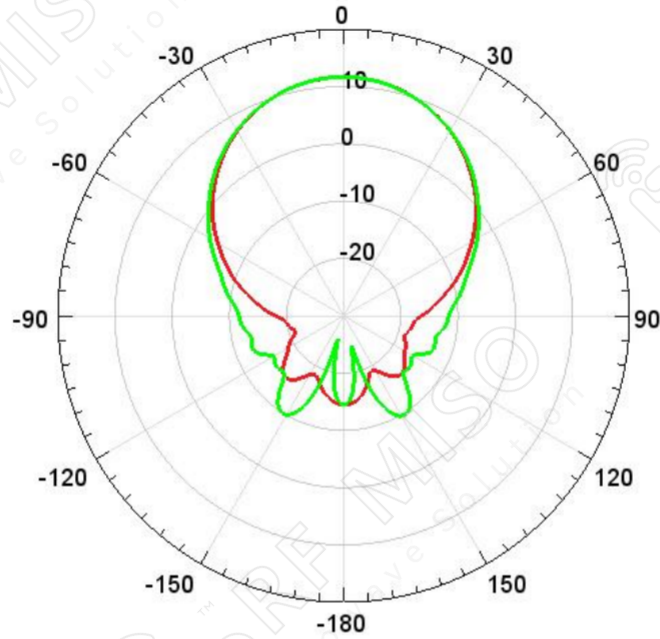
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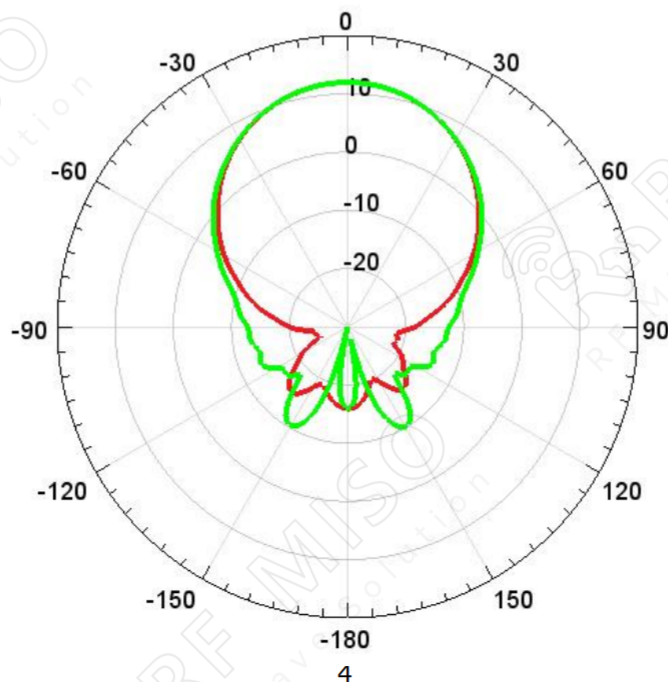
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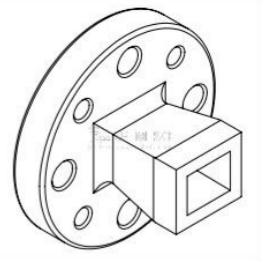
#### Gain Pattern

3dB Beamwidth@75GHz: E-Plane 49.04, H-plane 48.93.



3dB Beamwidth@78.8GHz: E-Plane 47.59, H-plane 47.17.



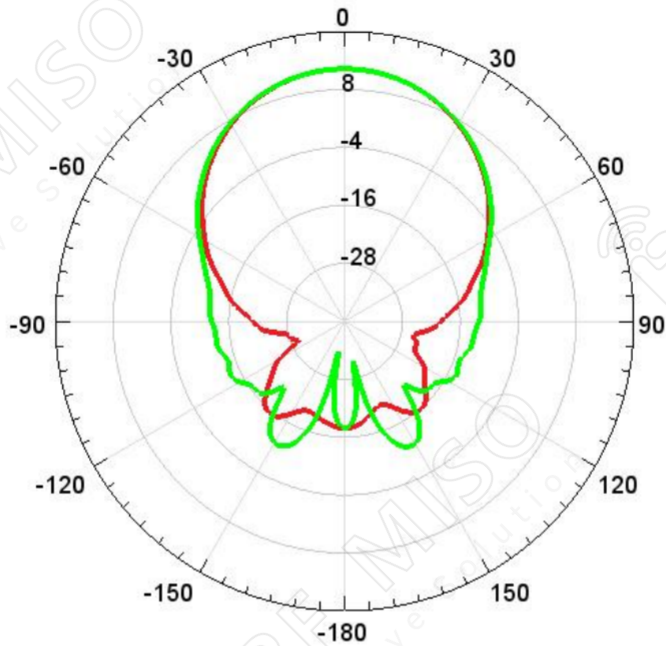


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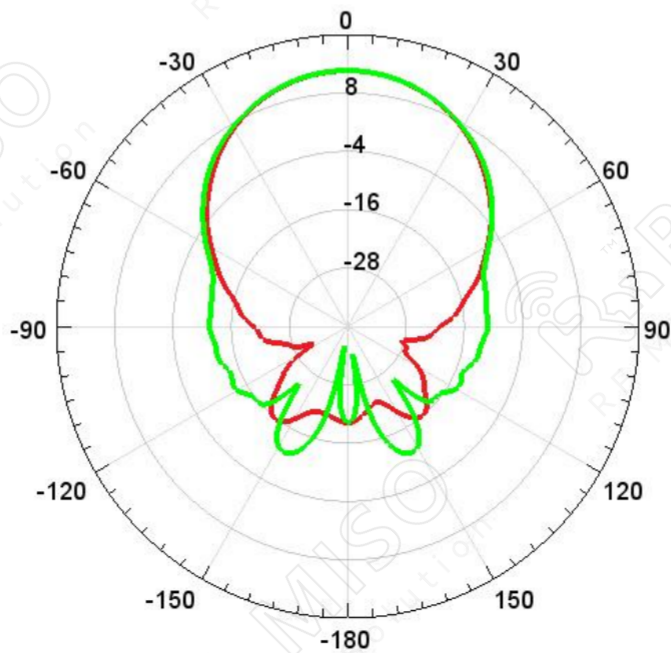
### Standard Gain Horn Antenna Data

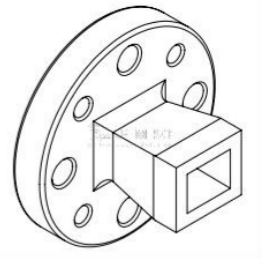
**RM-SGHA10-10**

3dB Beamwidth@82.7GHz: E-Plane 46.36, H-plane 45.27.



3dB Beamwidth@86.6GHz: E-Plane 44.39, H-plane 43.35.



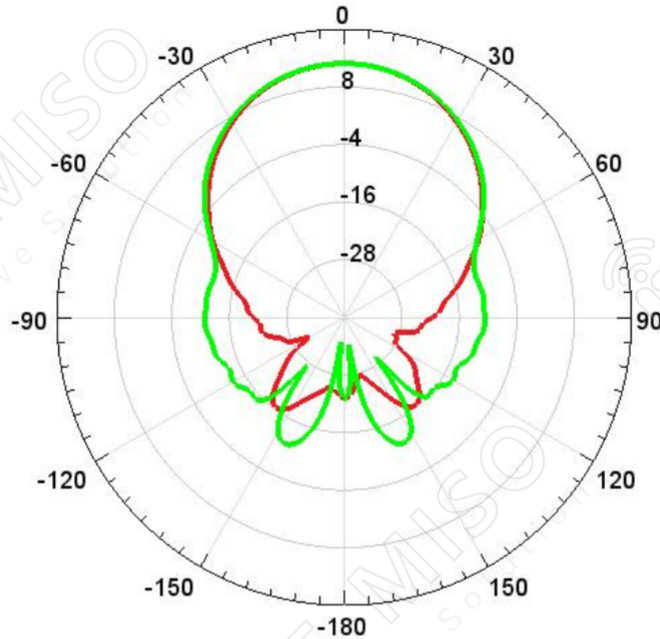


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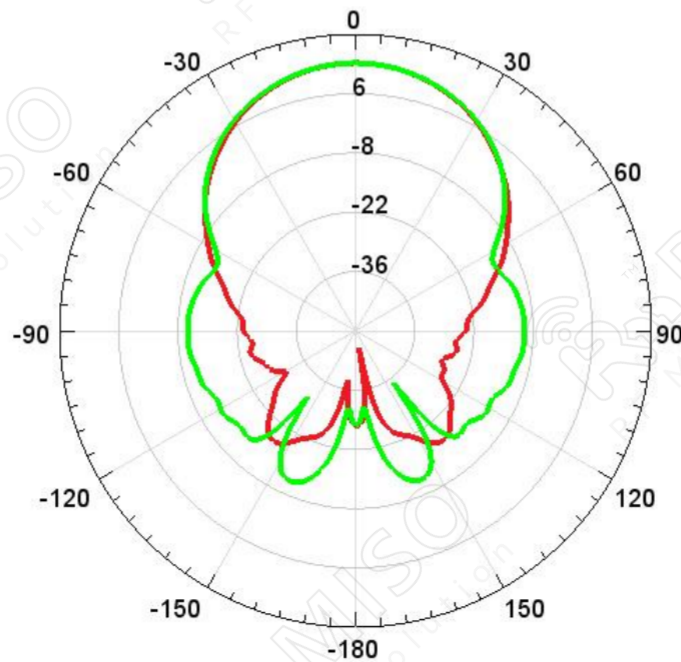
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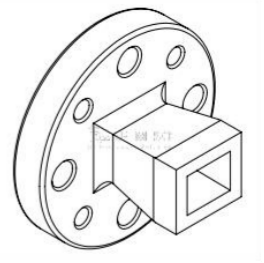
**RM-SGHA10-10**

3dB Beamwidth@90.5GHz: E-Plane 43.92, H-plane 41.98.



3dB Beamwidth@94.4GHz: E-Plane 42.38, H-plane 40.75.



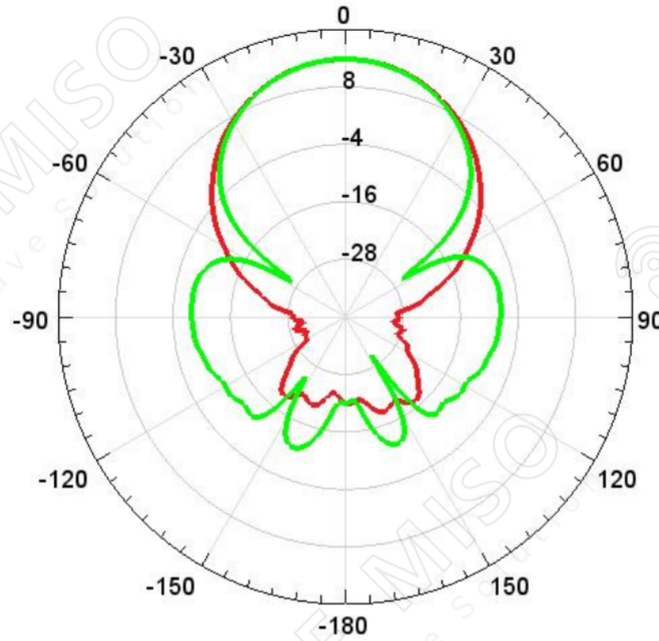


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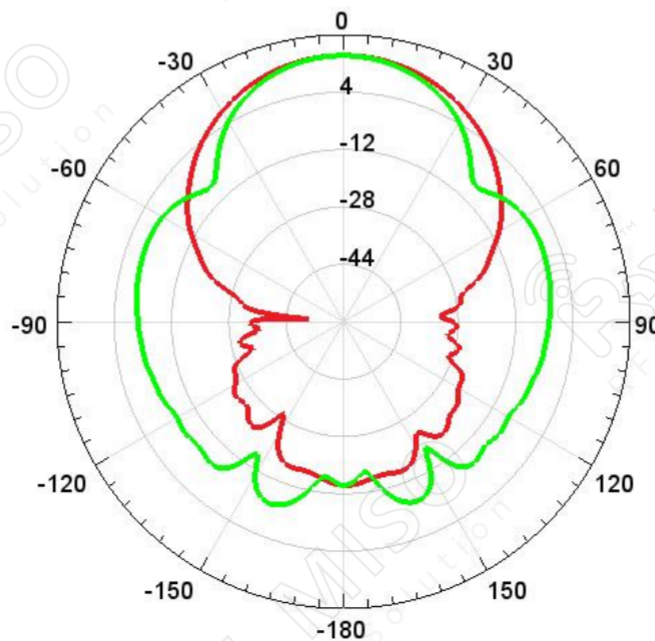
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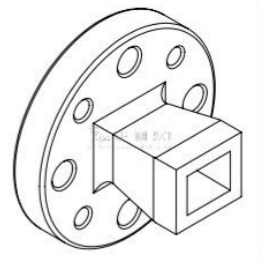
**RM-SGHA10-10**

3dB Beamwidth@98.3GHz: E-Plane 39.19, H-plane 40.19.



3dB Beamwidth@102.2GHz: E-Plane 33.88, H-plane 40.9.



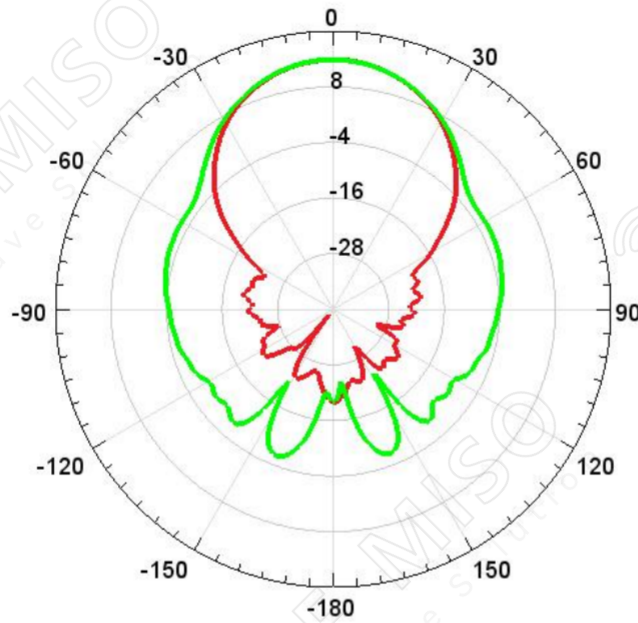


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**RM-SGHA10-10**

3dB Beamwidth@106.1GHz: E-Plane 39.02, H-plane 37.69.



3dB Beamwidth@110GHz: E-Plane 40.06, H-plane 35.61.

