

*Standard Gain Horn Antenna  
15 dBi Typ. Gain, 170-260GHz Frequency Range*

## Standard Gain Horn Antenna Data

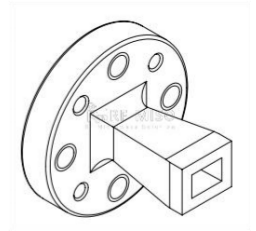
**RM-SGHA4-15**

### Description

RF MISO's **Model RM-SGHA4-15** is a linear polarized standard gain horn antenna that operates from 170 to 260 GHz. The antenna offers a typical gain of 15 dBi and low VSWR <1.1, This antenna has flange input and coaxial input for customers to rotate.

### Specifications

RM-SGHA4-15			
Item	Specification		Units
Frequency Range	170-260		GHz
Wave-guide	WR4		
Gain	15 Typ.		dBi
VSWR	<1.1		
Polarization	Linear		
Cross Polarization	55 Typ.		dB
3dB Beamwidth	E-Plane:22.5~36.5	H-Plane:19.0~28.0	deg
Material	Brass		
Size	Ø19.05*16.03(±5)		mm
Weight	0.01		kg

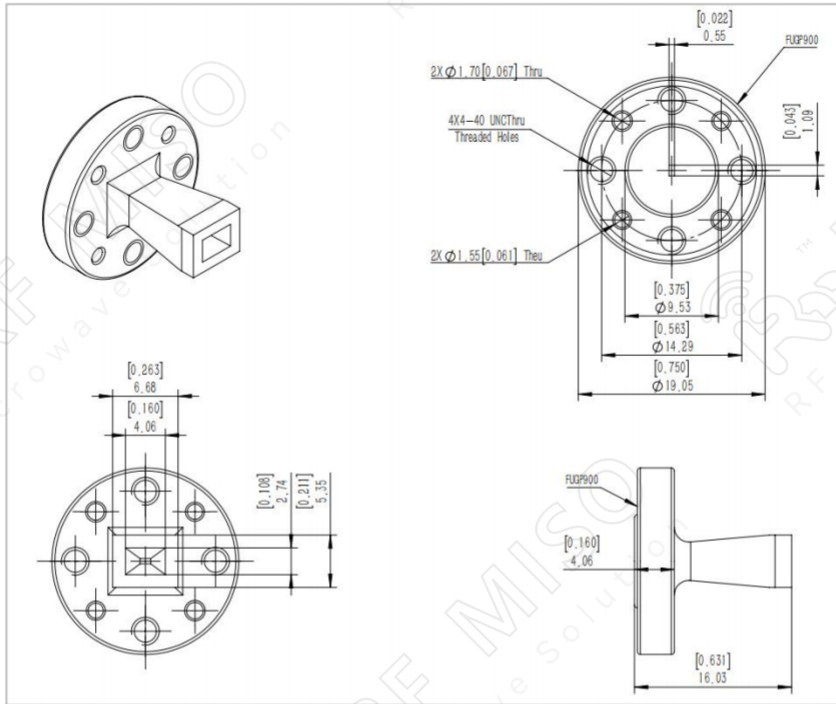


Standard Gain Horn Antenna  
15 dBi Typ. Gain, 170-260GHz Frequency Range

**Standard Gain Horn Antenna Data**

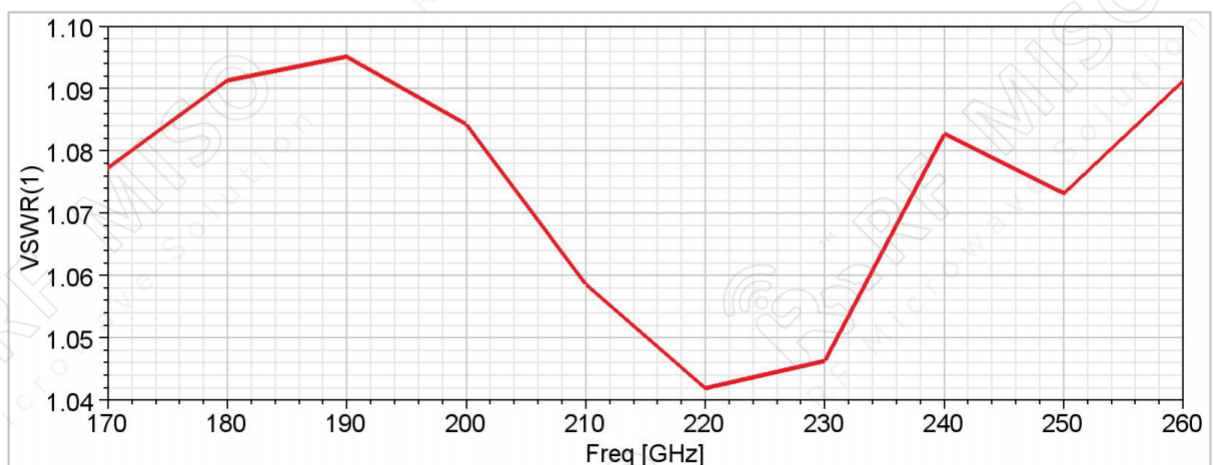
**RM-SGHA4-15**

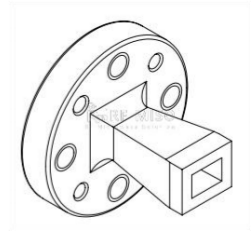
**Outline Drawing**



**Simulated Data**

**VSWR**



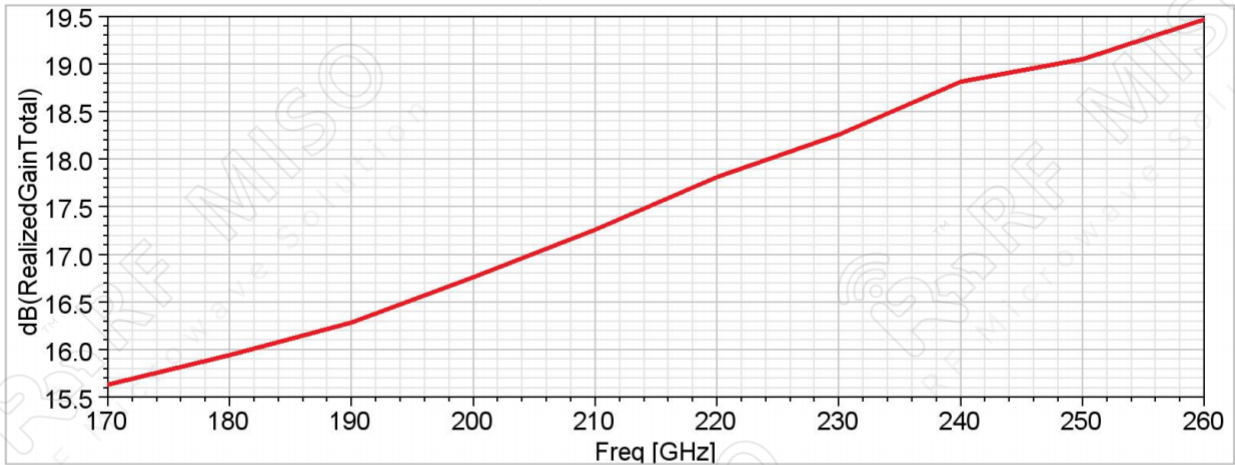


Standard Gain Horn Antenna  
15 dBi Typ. Gain, 170-260GHz Frequency Range

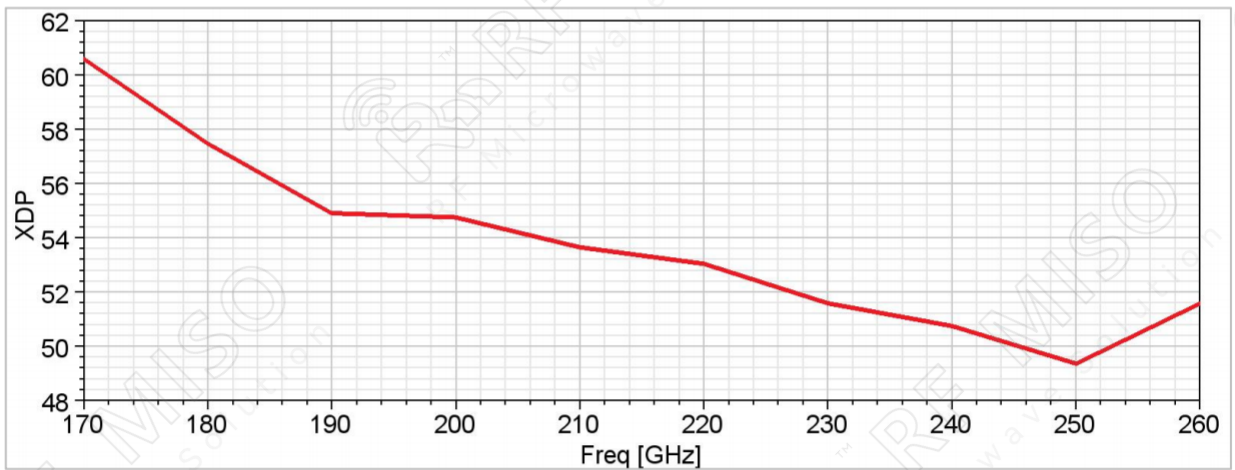
**Standard Gain Horn Antenna Data**

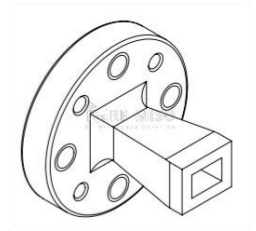
**RM-SGHA4-15**

Gain



Cross Polarization





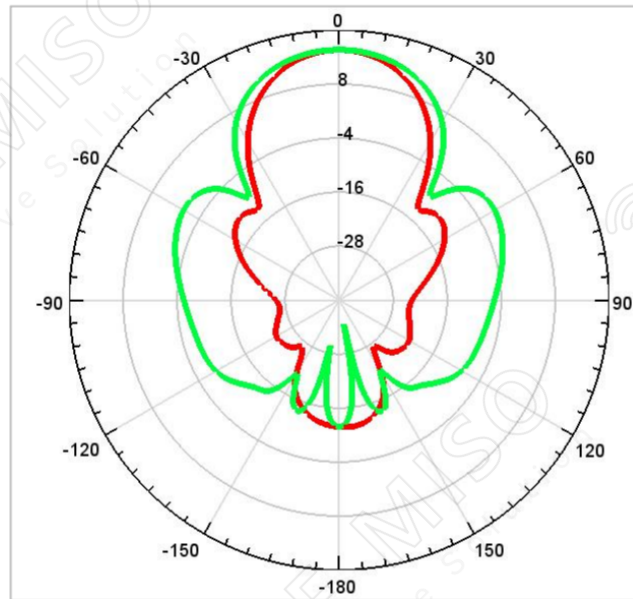
Standard Gain Horn Antenna  
15 dBi Typ. Gain, 170-260GHz Frequency Range

### Standard Gain Horn Antenna Data

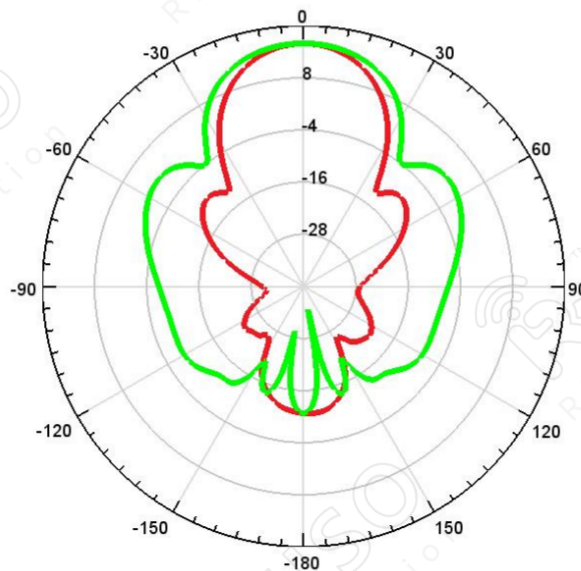
**RM-SGHA4-15**

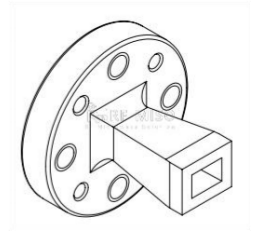
#### Gain Pattern

3dB Beamwidth@170GHz: E-Plane 36.49, H-plane 28.00.



3dB Beamwidth@180GHz: E-Plane 36.50, H-plane 26.58.



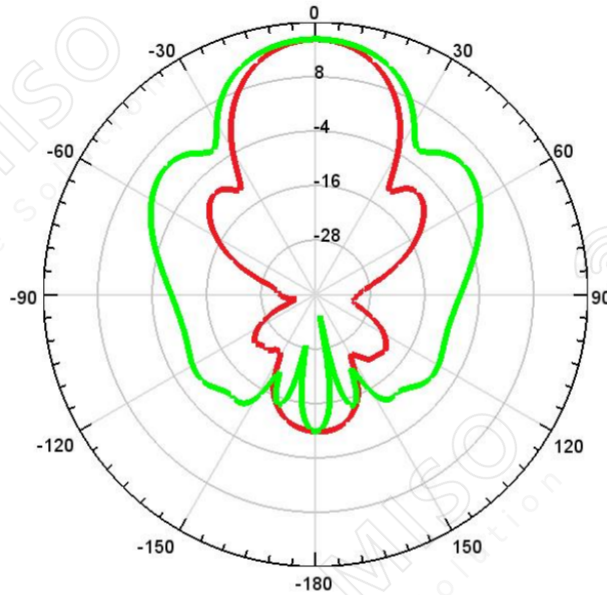


Standard Gain Horn Antenna  
15 dBi Typ. Gain, 170-260GHz Frequency Range

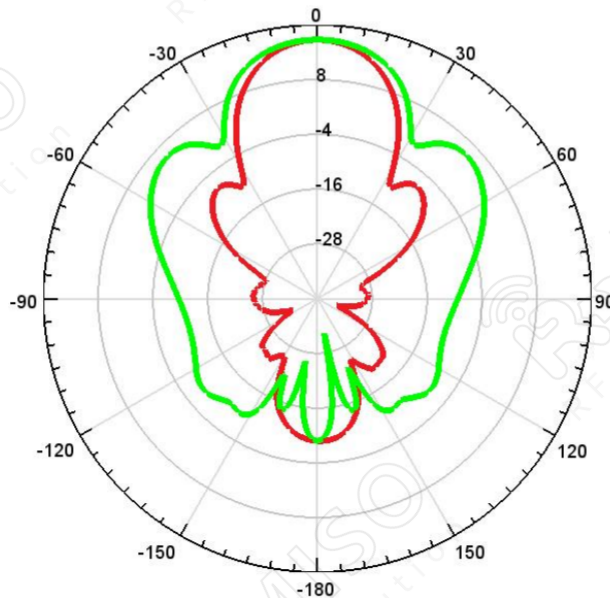
### Standard Gain Horn Antenna Data

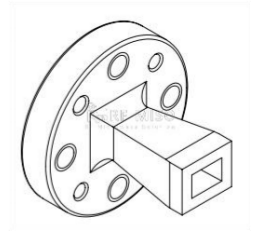
**RM-SGHA4-15**

3dB Beamwidth@190GHz: E-Plane 33.82, H-plane 25.46.



3dB Beamwidth@200GHz: E-Plane 31.30, H-plane 24.10.



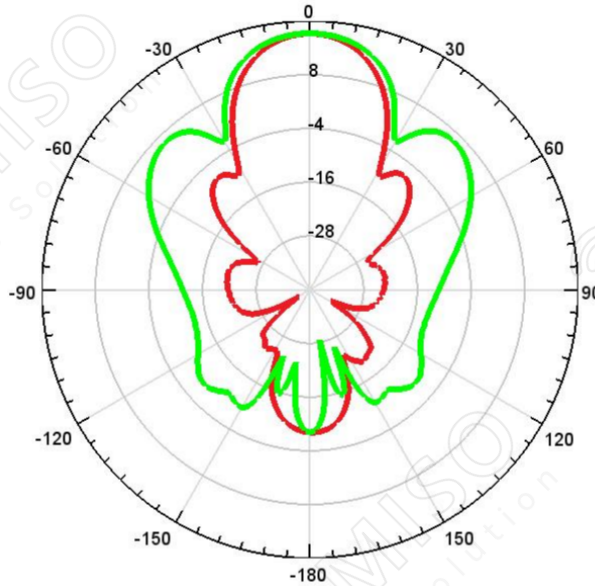


Standard Gain Horn Antenna  
15 dBi Typ. Gain, 170-260GHz Frequency Range

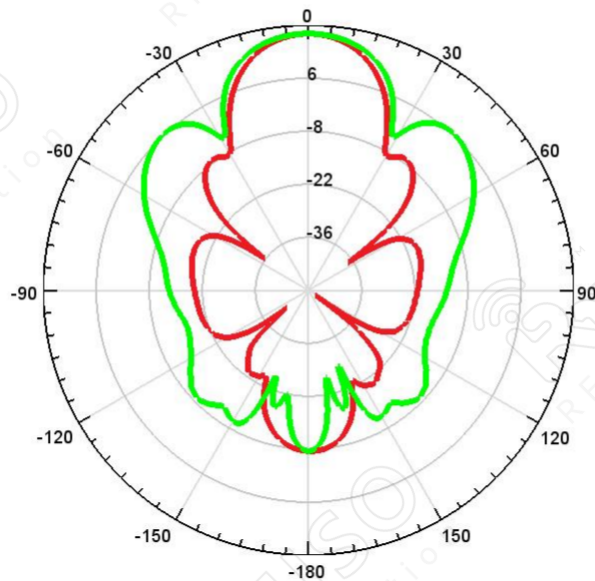
### Standard Gain Horn Antenna Data

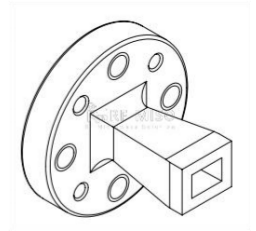
**RM-SGHA4-15**

3dB Beamwidth@210GHz: E-Plane 29.03, H-plane 23.14.



3dB Beamwidth@220GHz: E-Plane 27.33, H-plane 22.06.



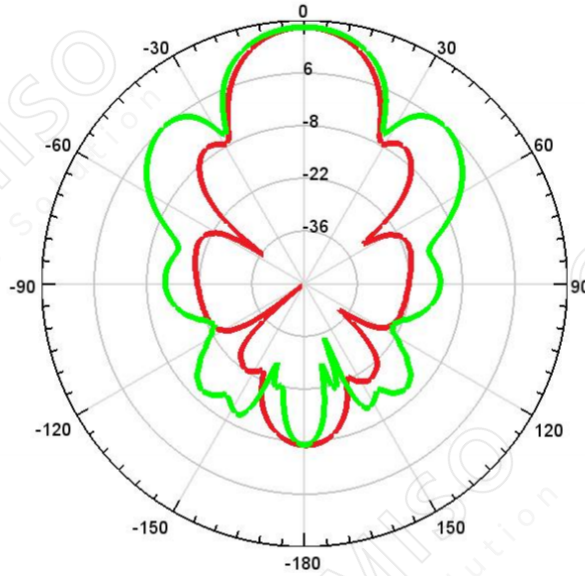


Standard Gain Horn Antenna  
15 dBi Typ. Gain, 170-260GHz Frequency Range

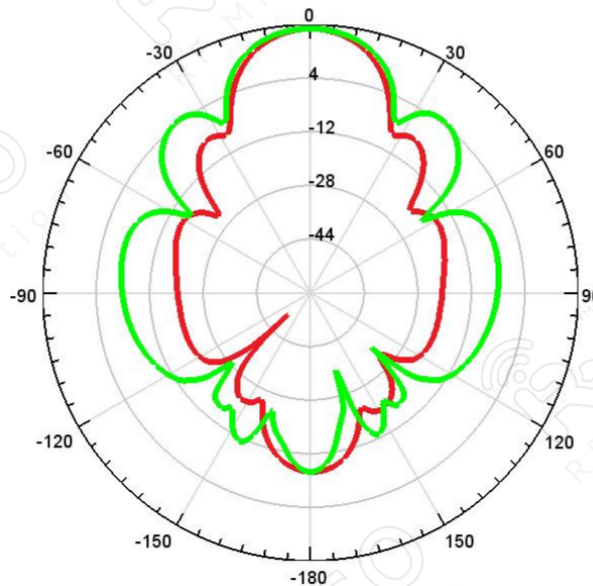
### Standard Gain Horn Antenna Data

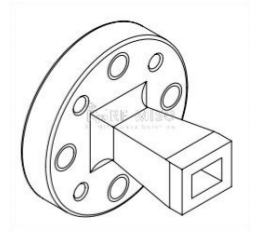
**RM-SGHA4-15**

3dB Beamwidth@230GHz: E-Plane 25.86, H-plane 21.45.



3dB Beamwidth@240GHz: E-Plane 24.41, H-plane 20.59.



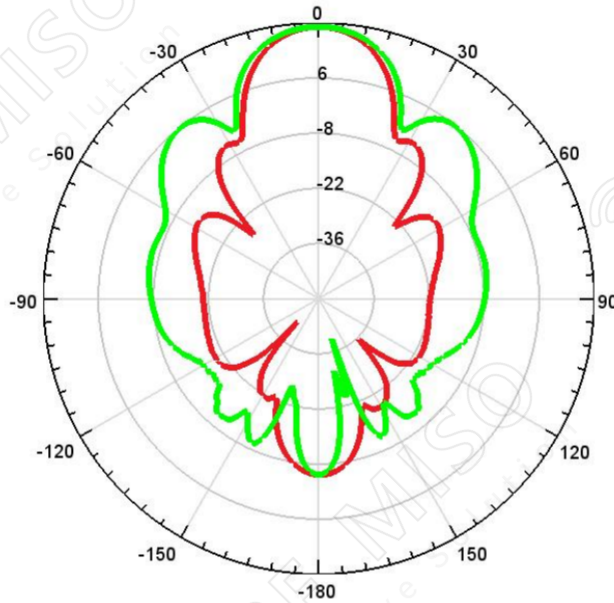


Standard Gain Horn Antenna  
15 dBi Typ. Gain, 170-260GHz Frequency Range

### Standard Gain Horn Antenna Data

**RM-SGHA4-15**

3dB Beamwidth@250GHz: E-Plane 23.68, H-plane 19.17.



3dB Beamwidth@260GHz: E-Plane 22.48, H-plane 19.07.

