

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

Standard Gain Horn Antenna Data

RM-SGHA4-20

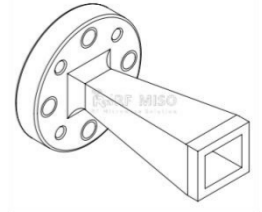
Description

RF MISO's **Model RM-SGHA4-20** is a linear polarized standard gain horn antenna that operates from 170 to 260 GHz. The antenna offers a typical gain of 20 dBi and low VSWR <1.2, This antenna has flange input and coaxial input for customers to rotate.

Specifications

RM-SGHA4-20			
Item	Specification		Units
Frequency Range	170-260		GHz
Wave-guide	WR4		
Gain	20 Typ.		dBi
VSWR	<1.2		
Polarization	Linear		
Cross Polarization	65 Typ.		dB
3dB Beamwidth	E-Plane:11.5~18.4	H-Plane:12.2~18.2	deg
Material	Brass		
Size	Ø19.05*28.13(±5)		mm
Weight	0.014		kg

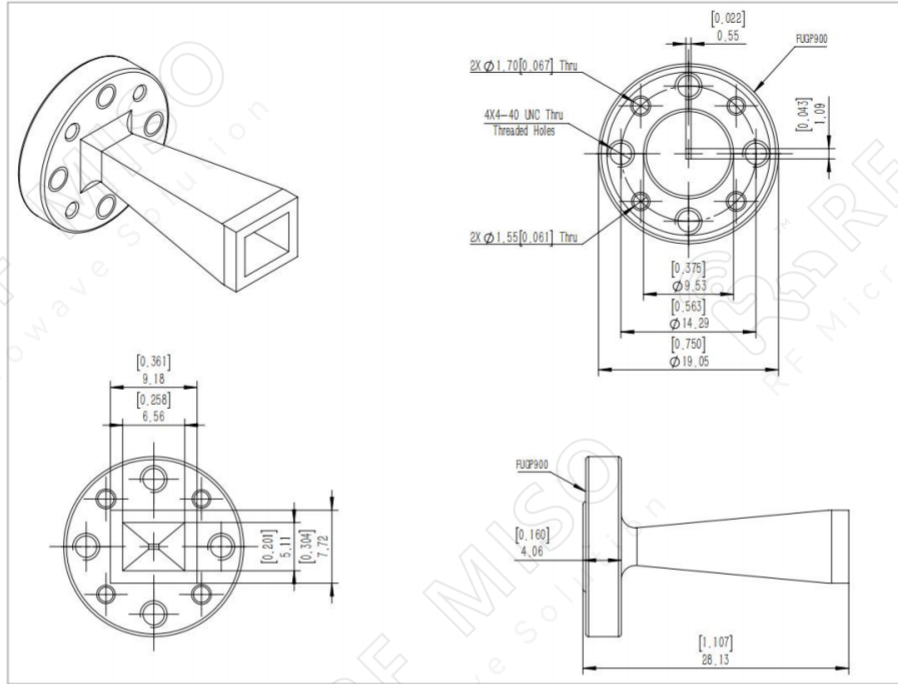
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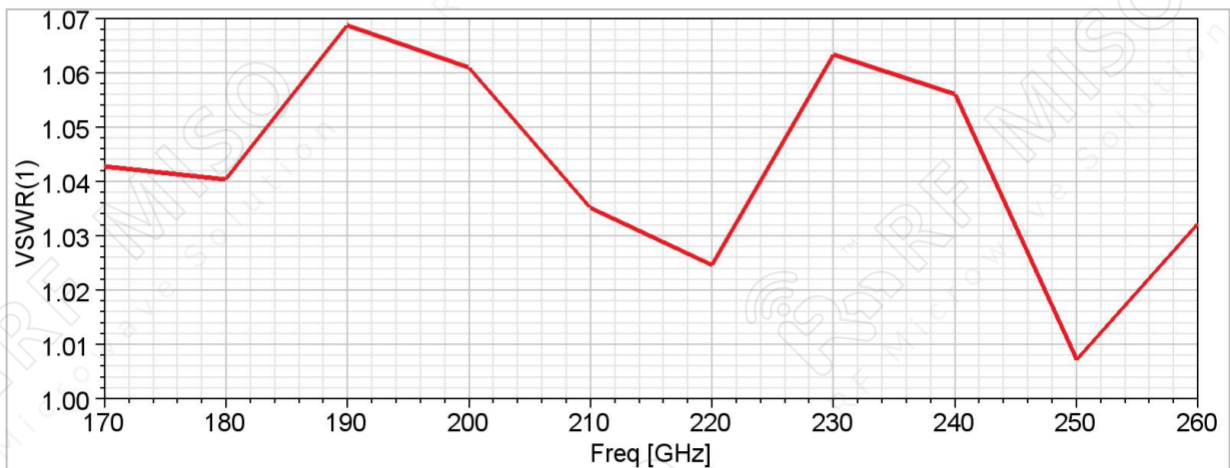
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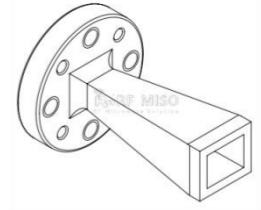
Outline Drawing



Simulated Data

VSWR



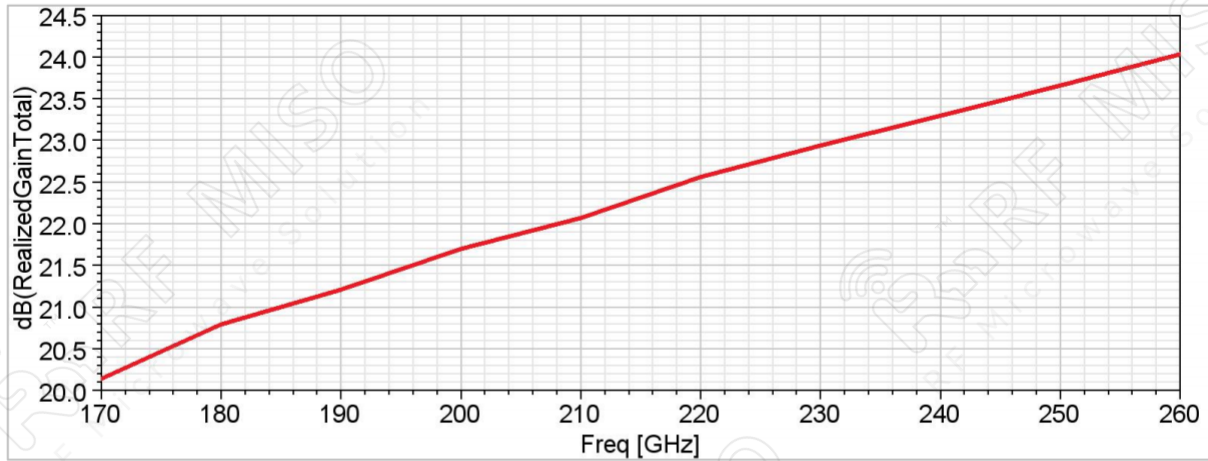


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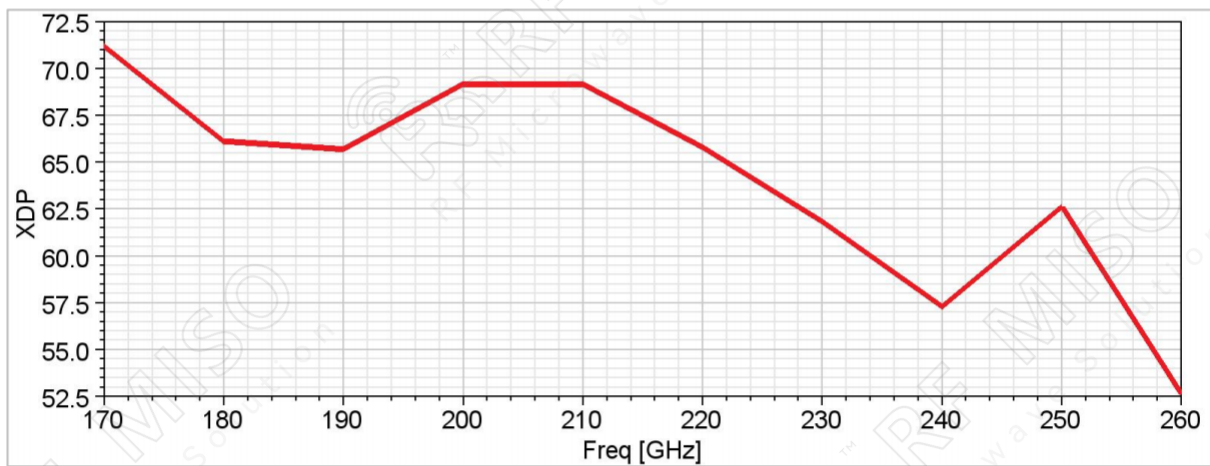
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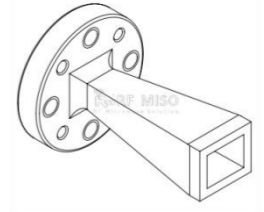
Gain



Cross Polarization



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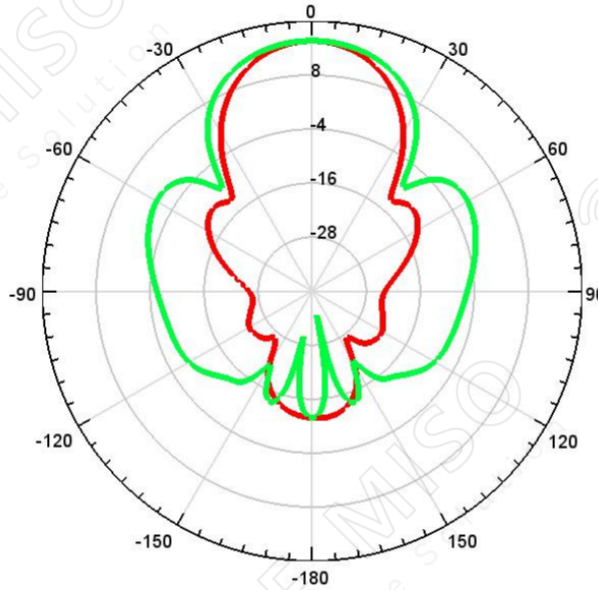


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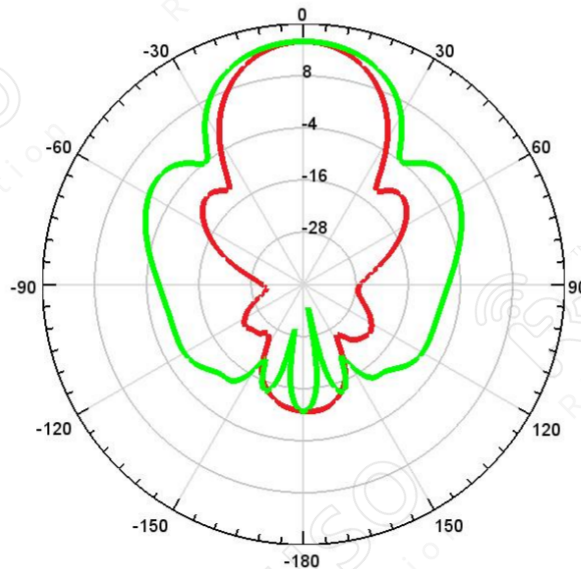
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Gain Pattern

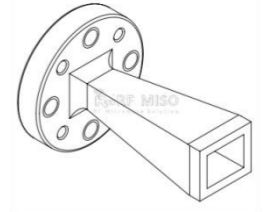
3dB Beamwidth@170GHz: E-Plane 18.42, H-plane 18.17.



3dB Beamwidth@180GHz: E-Plane 17.13, H-plane 17.08.



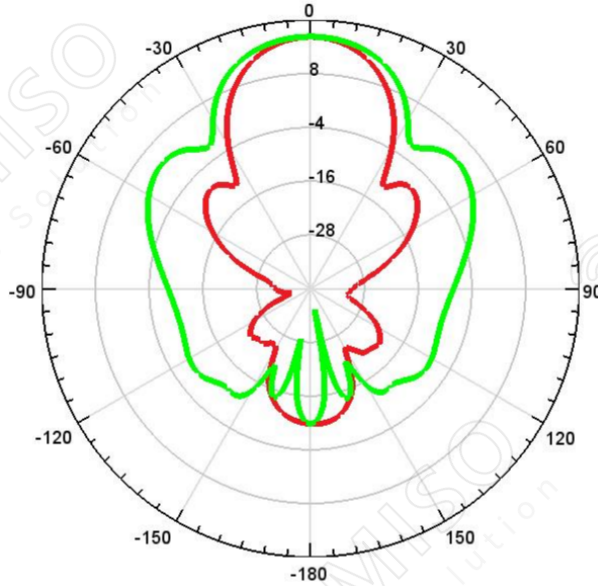
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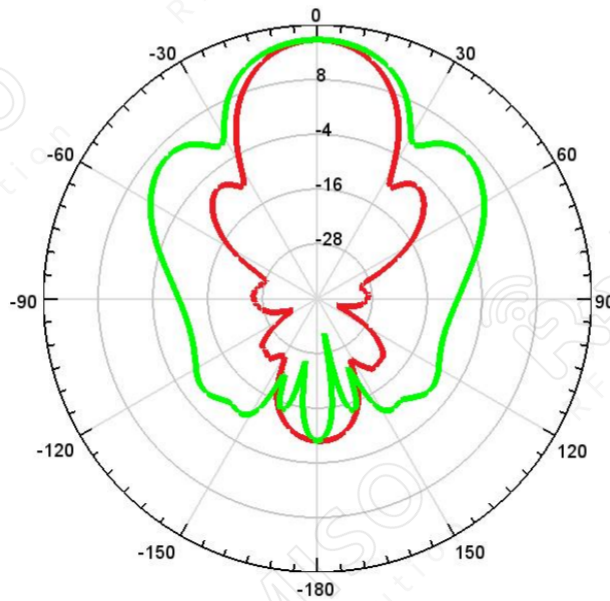
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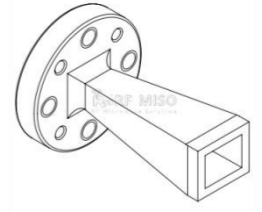
3dB Beamwidth@190GHz: E-Plane 16.64, H-plane 16.26.



3dB Beamwidth@200GHz: E-Plane 15.67, H-plane 15.41.



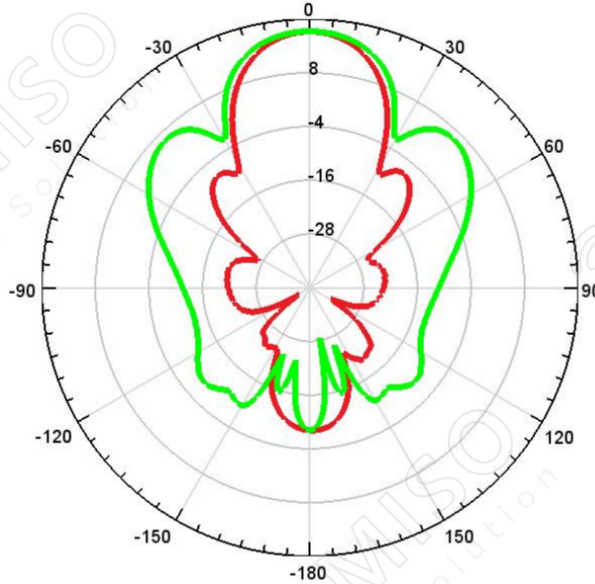
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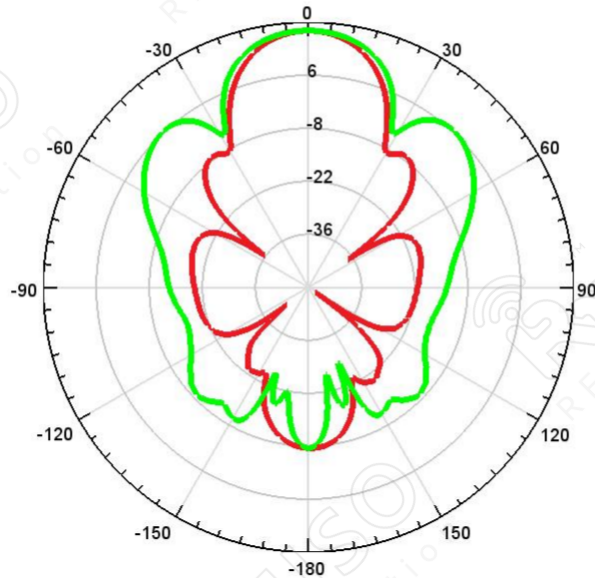
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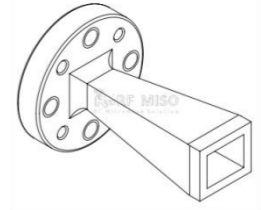
3dB Beamwidth@210GHz: E-Plane 14.83, H-plane 14.68.



3dB Beamwidth@220GHz: E-Plane 13.93, H-plane 14.15.



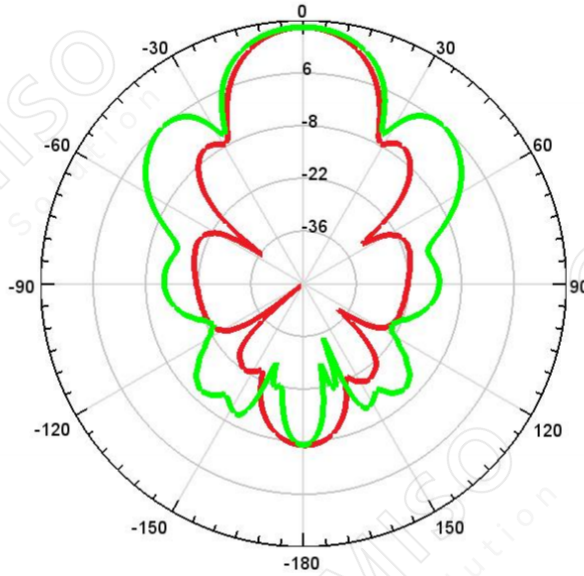
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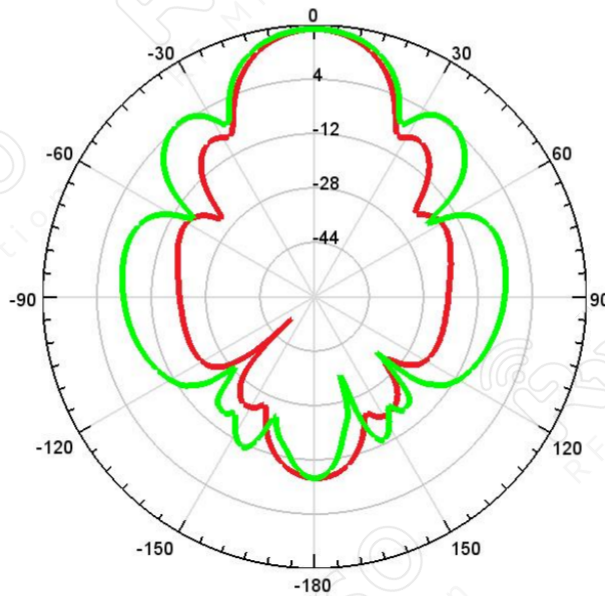
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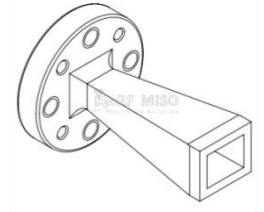
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3dB Beamwidth@230GHz: E-Plane 13.47, H-plane 13.51.



3dB Beamwidth@240GHz: E-Plane 12.87, H-plane 13.04.



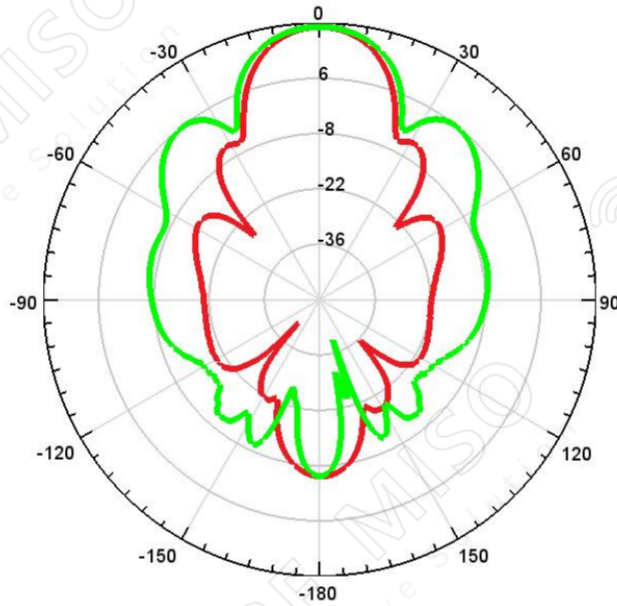


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3dB Beamwidth@250GHz: E-Plane 12.28, H-plane 12.57.



3dB Beamwidth@260GHz: E-Plane 11.56, H-plane 12.21.

