

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

Standard Gain Horn Antenna Data

RM-SGHA4-10

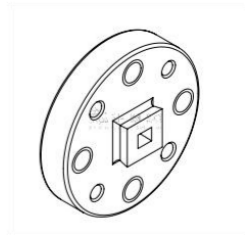
Description

RF MISO's **Model RM-SGHA4-10** is a linear polarized standard gain horn antenna that operates from 170 to 260 GHz. The antenna offers a typical gain of 10 dBi and low VSWR <1.2, This antenna has flange input and coaxial input for customers to rotate.

Specifications

RM-SGHA4-10			
Item	Specification		Units
Frequency Range	170-260		GHz
Wave-guide	WR4		
Gain	10 Typ.		dBi
VSWR	<1.2		
Polarization	Linear		
Cross Polarization	52 Typ.		dB
3dB Beamwidth	E-Plane: 33.4~49.89	H-Plane: 37.1~53.3	deg
Material	Brass		
Size	Ø19.05*5.76(±5)		mm
Weight	0.006		kg

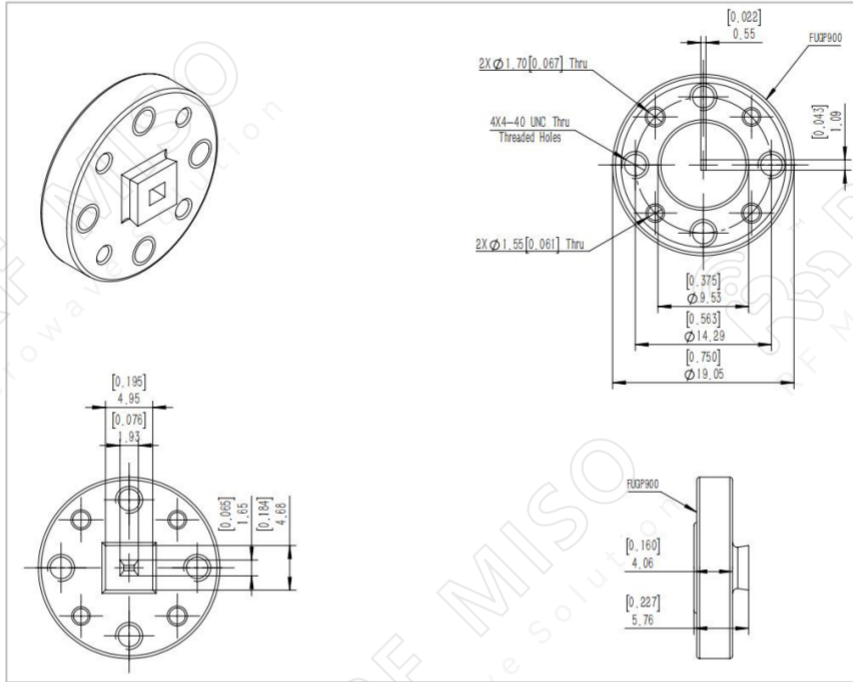
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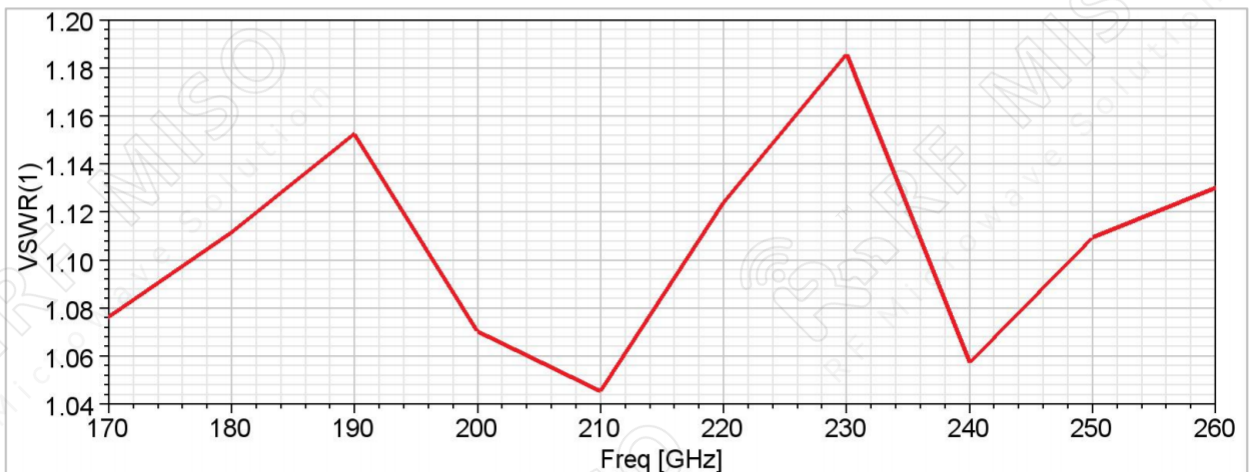
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Outline Drawing

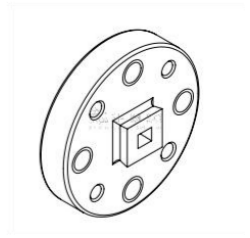


Simulated Data

VSWR



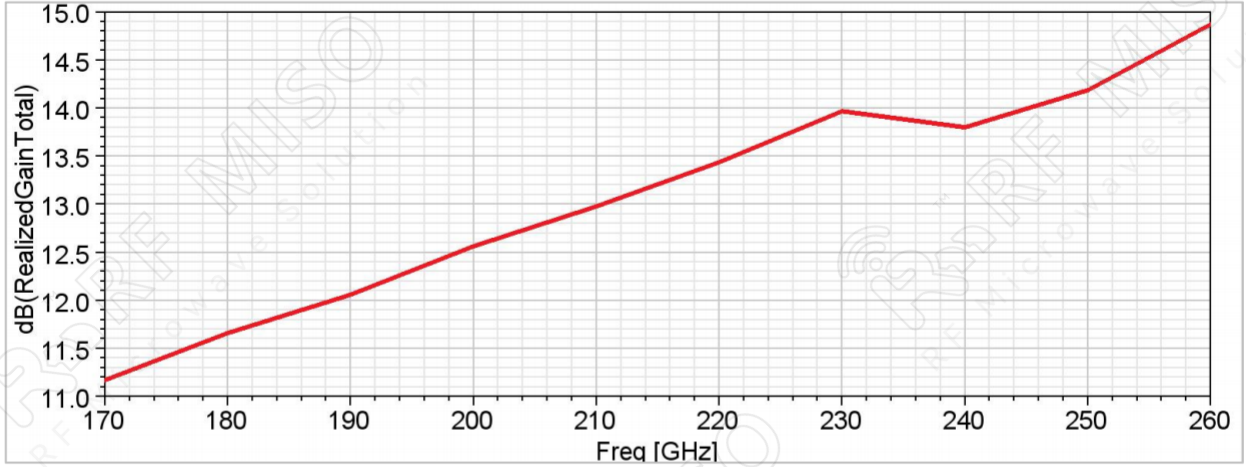
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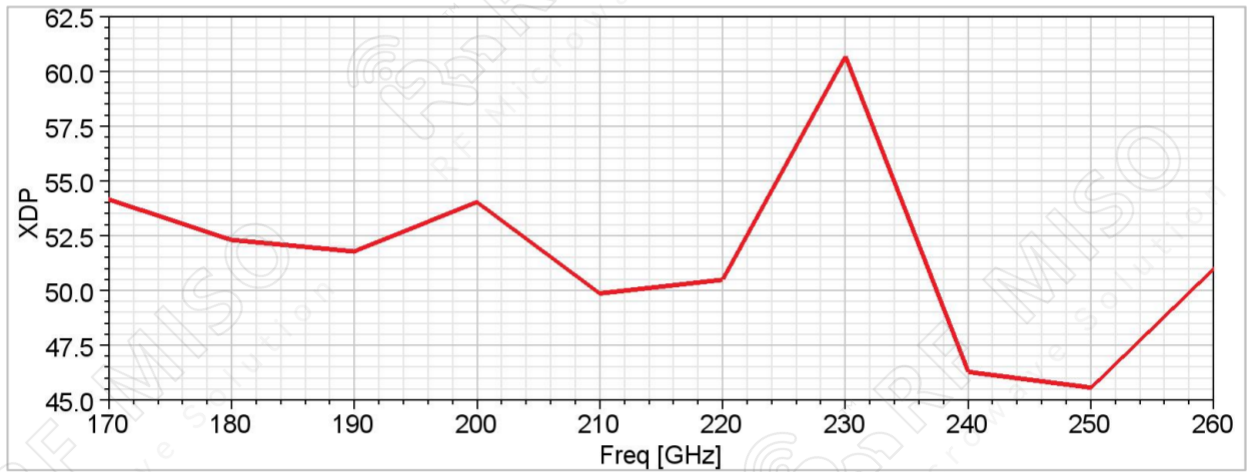
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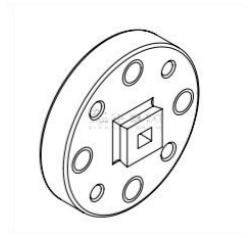
Gain



Cross Polarization



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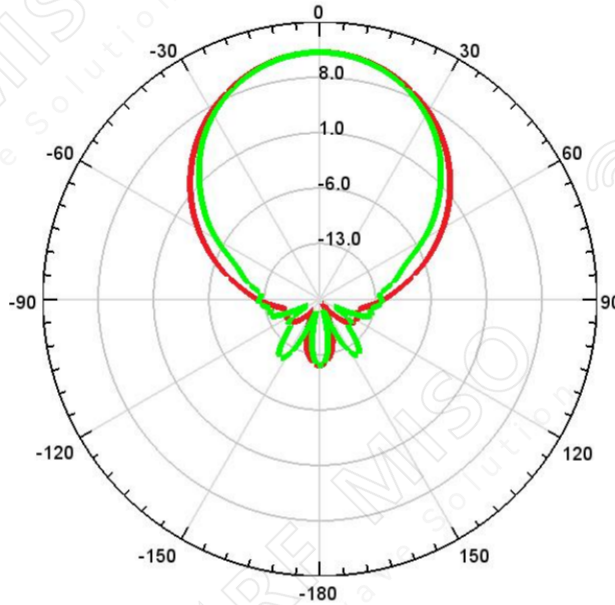


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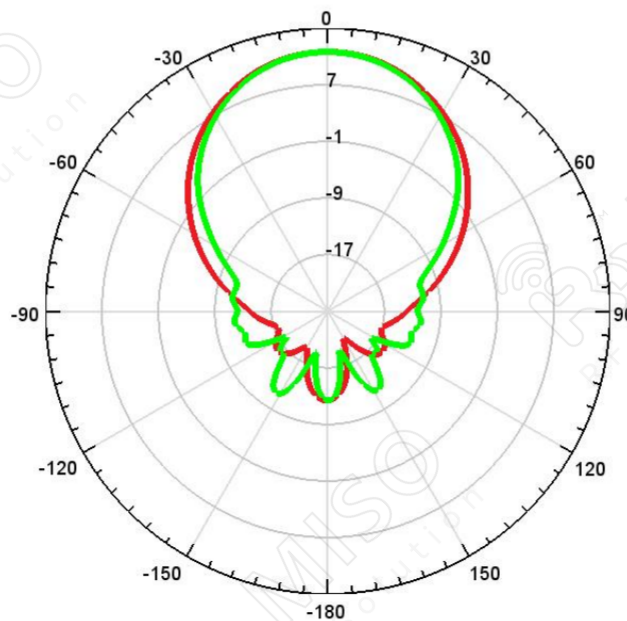
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Gain Pattern

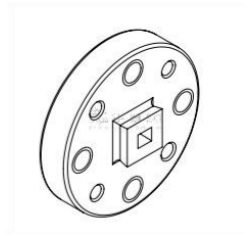
3dB Beamwidth@170GHz: E-Plane 49.88, H-plane 53.32.



3dB Beamwidth@180GHz: E-Plane 46.84, H-plane 50.78.



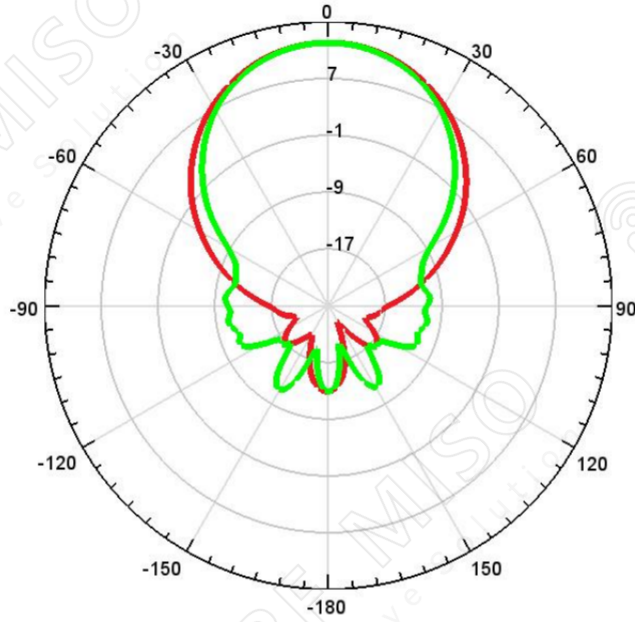
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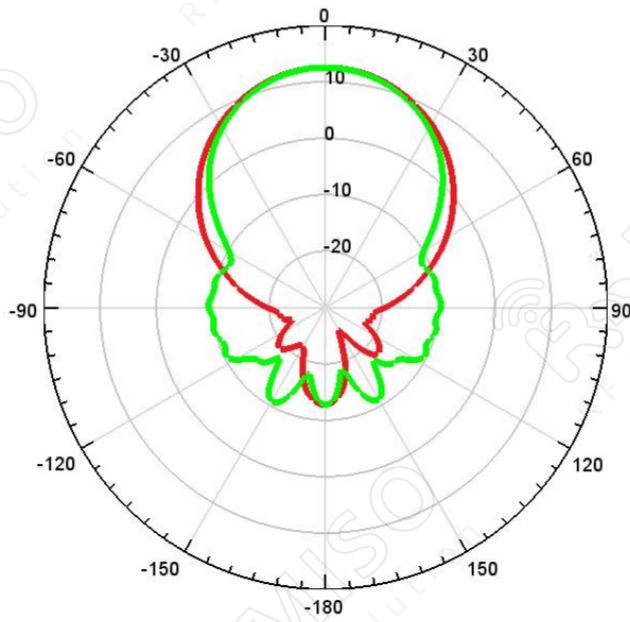
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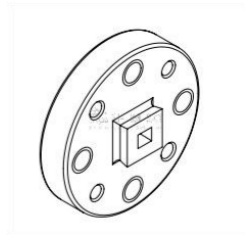
3dB Beamwidth@190GHz: E-Plane 45.29, H-plane 48.91.



3dB Beamwidth@200GHz: E-Plane 49.88, H-plane 53.32.



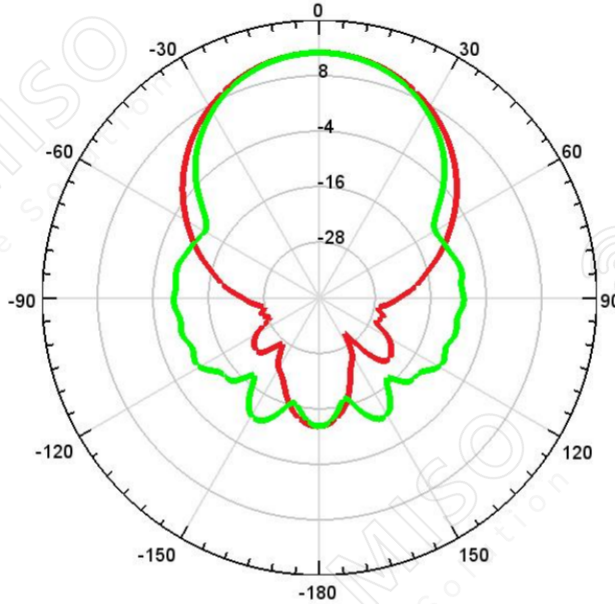
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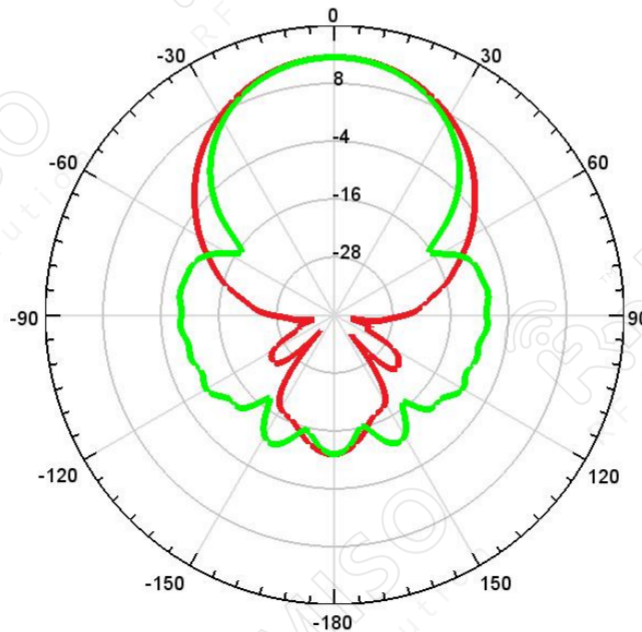
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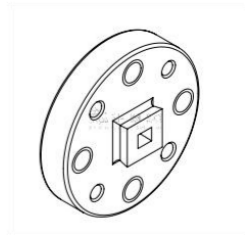
3dB Beamwidth@210GHz: E-Plane 44.21, H-plane 44.51.



3dB Beamwidth@220GHz: E-Plane 49.88, H-plane 53.32.



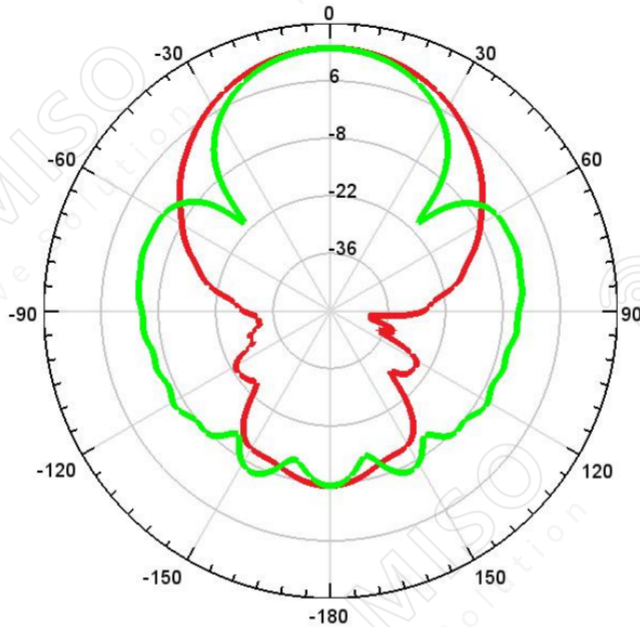
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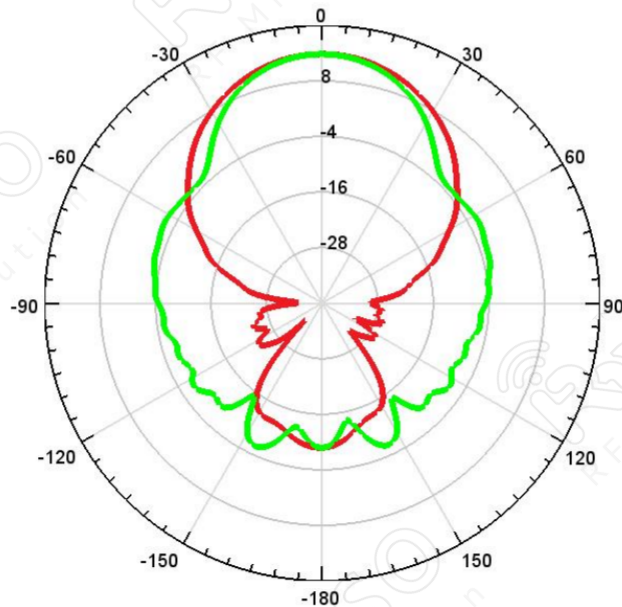
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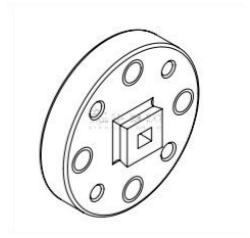
3dB Beamwidth@230GHz: E-Plane 34.54, H-plane 41.91.



3dB Beamwidth@240GHz: E-Plane 35.21, H-plane 42.31.



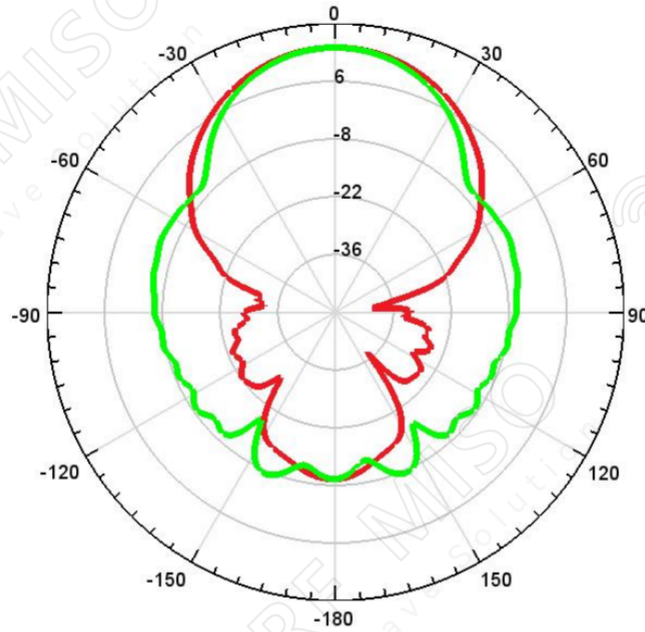
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3dB Beamwidth@250GHz: E-Plane 34.87, H-plane 40.14.



3dB Beamwidth@260GHz: E-Plane 33.43, H-plane 37.13.

