

*Standard Gain Horn Antenna
10 dBi Typ. Gain, 110-170GHz Frequency Range*

Standard Gain Horn Antenna Data

RM-SGHA7-10

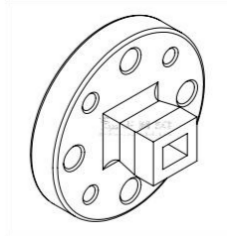
Description

RF MISO's **Model RM-SGHA7-10** is a linear polarized standard gain horn antenna that operates from 110 to 170 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-SGHA7-10			
Item	Specification		Units
Frequency Range	110-170		GHz
Wave-guide	WR7		
Gain	10 Typ.		dBi
VSWR	<1.3		
Polarization	Linear		
Cross Polarization	60 Typ.		dB
3dB Beamwidth	E-Plane:42.2~56.0	H-Plane:36.7~49.5	deg
Material	Brass		
Size	Ø19.05*9.71(±5)		mm
Weight	0.009		kg

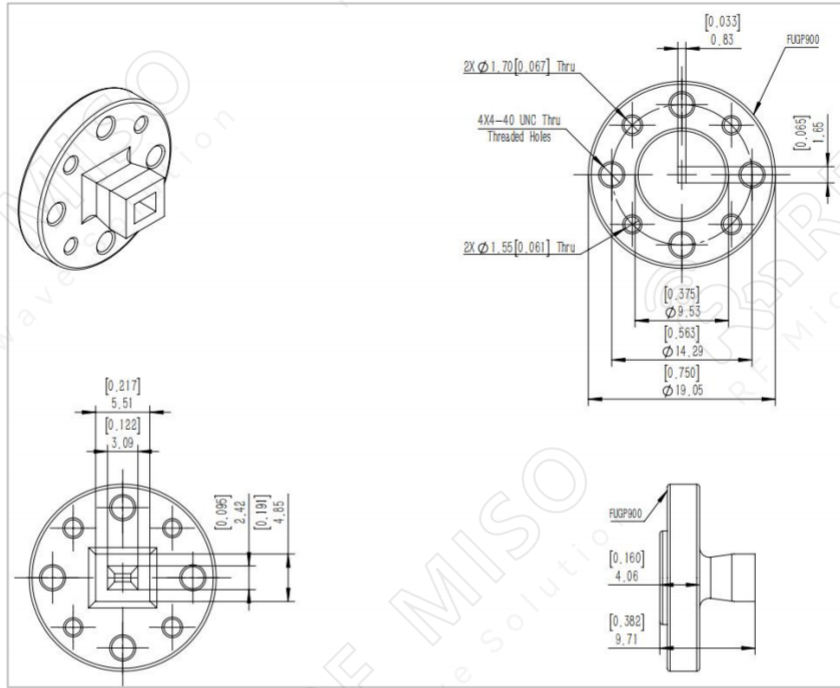
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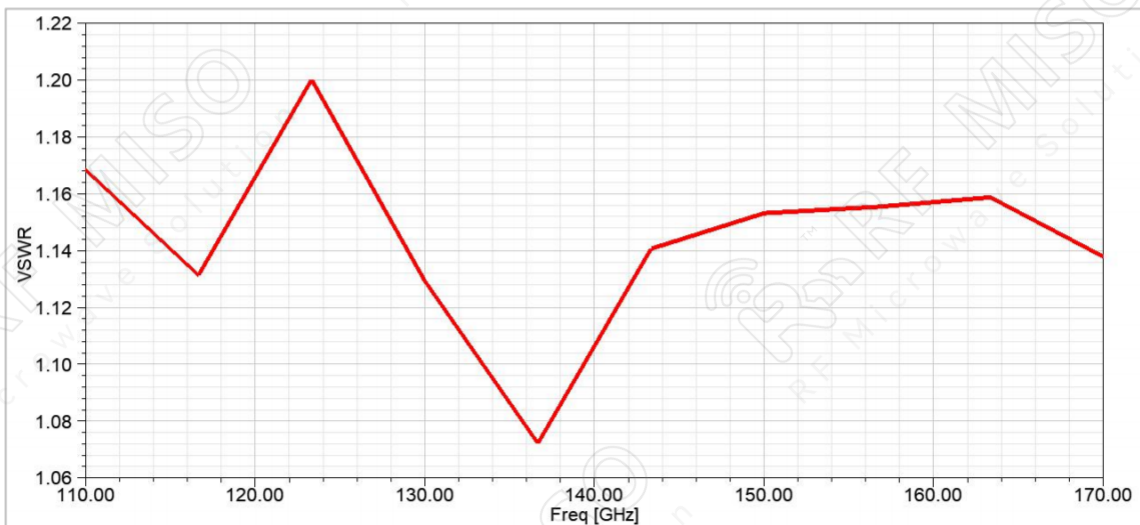
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Outline Drawing

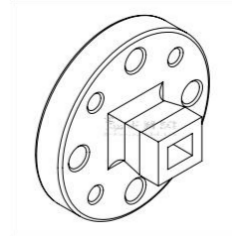


Simulated Data

VSWR



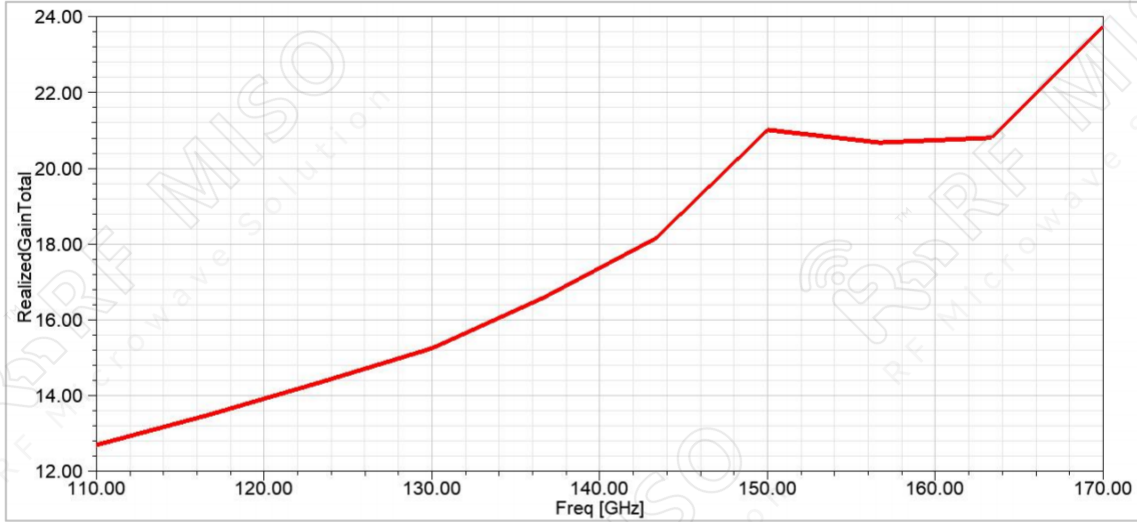
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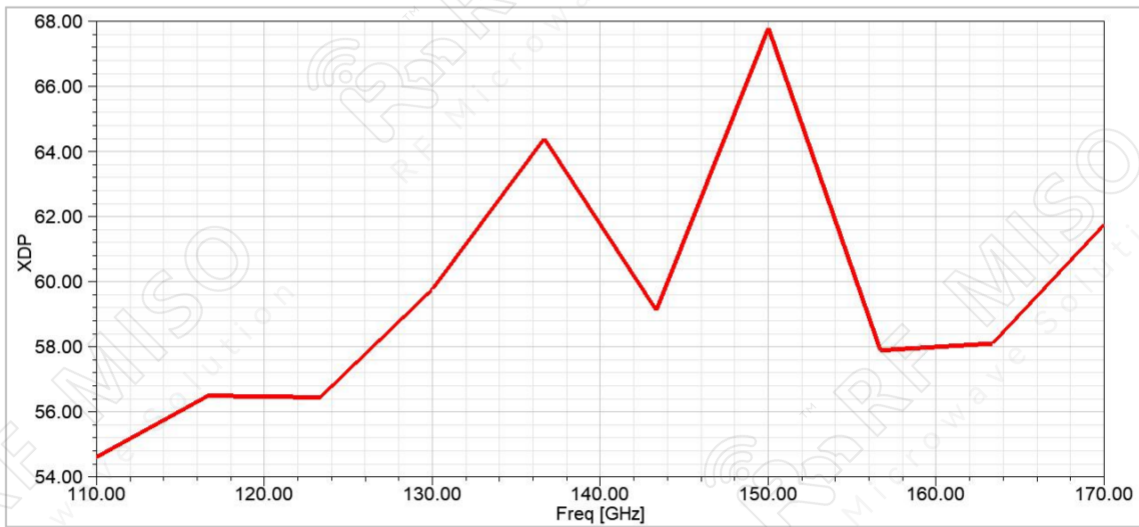
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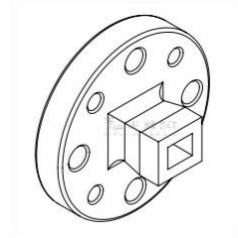
Gain



Cross Polarization



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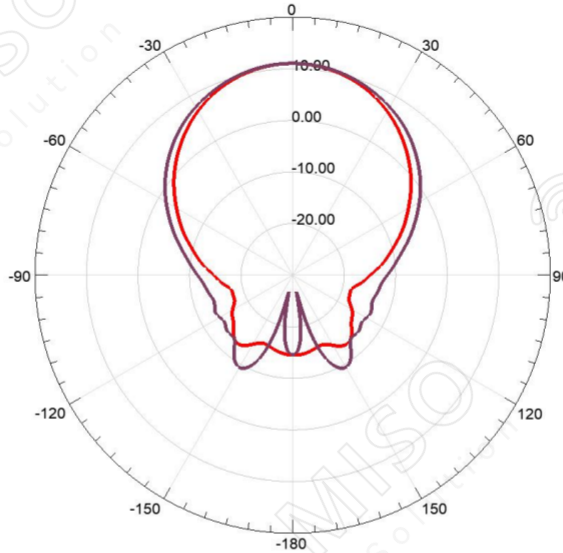


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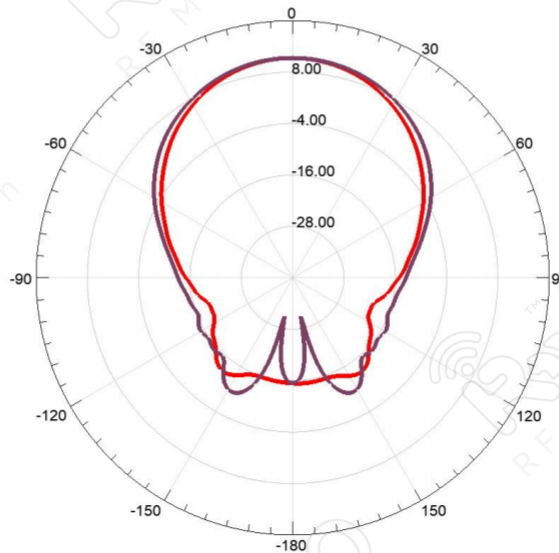
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Gain Pattern

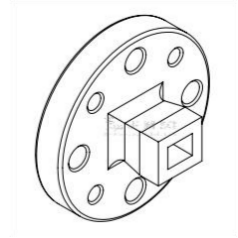
3dB Beamwidth@110GHz: E-Plane 56.00, H-plane 49.51.



3dB Beamwidth@116.67GHz: E-Plane 55.39, H-plane 47.31.



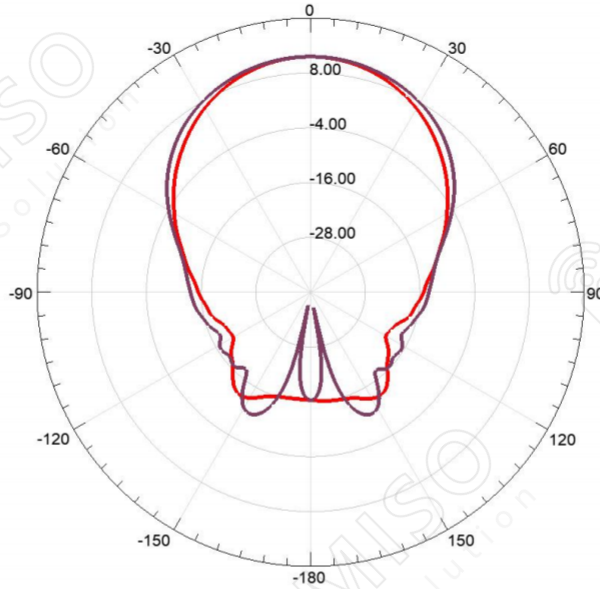
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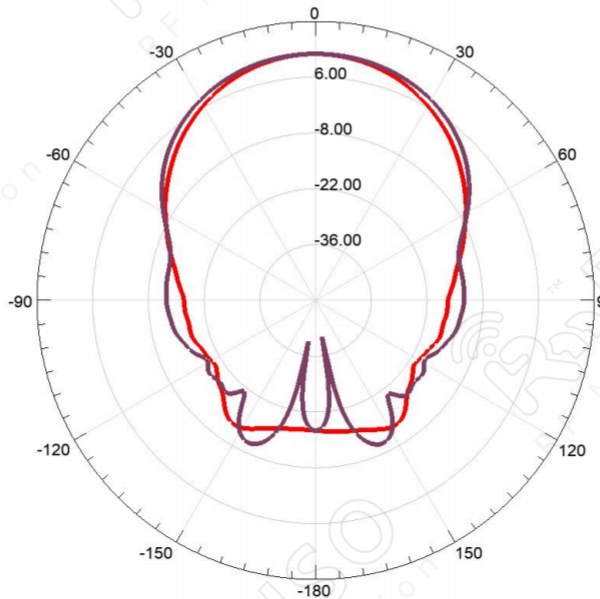
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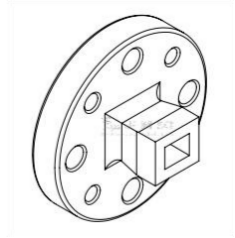
3dB Beamwidth@123.33GHz: E-Plane 54.29, H-plane 45.31.



3dB Beamwidth@130GHz: E-Plane 53.79, H-plane 43.92.



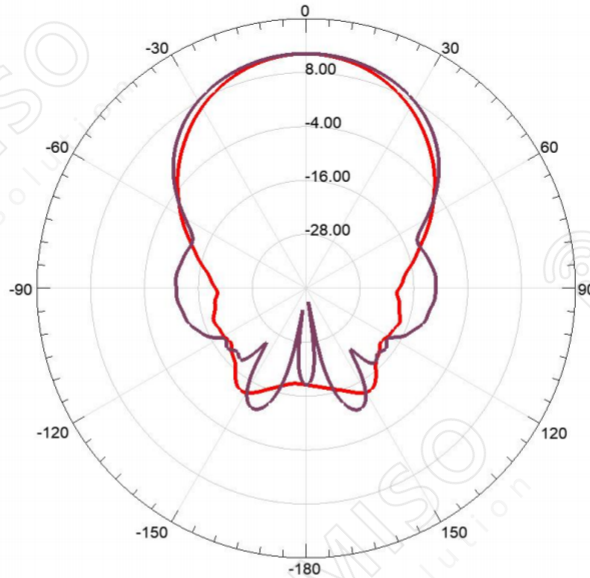
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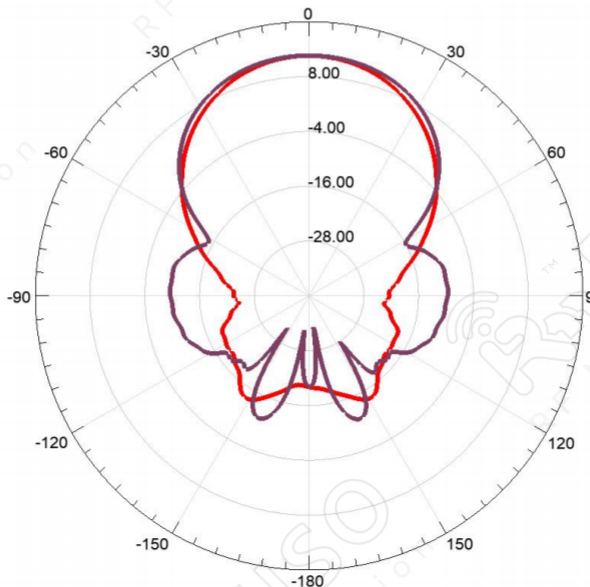
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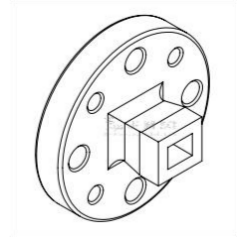
3dB Beamwidth@136.67GHz: E-Plane 52.09, H-plane 42.51.



3dB Beamwidth@143.33GHz: E-Plane 50.0, H-plane 41.75.



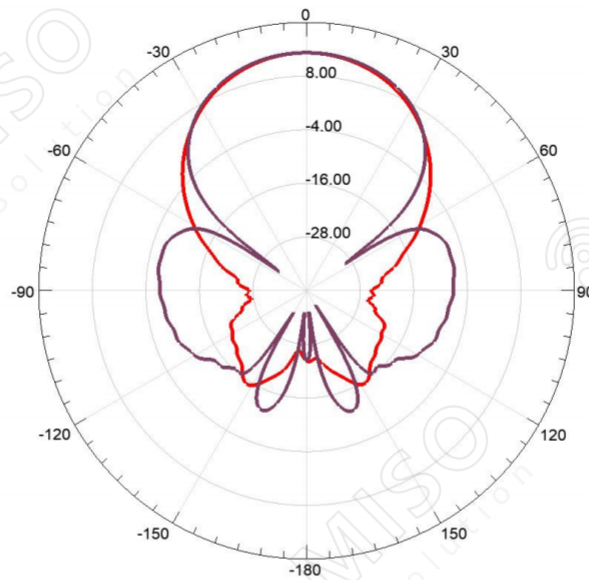
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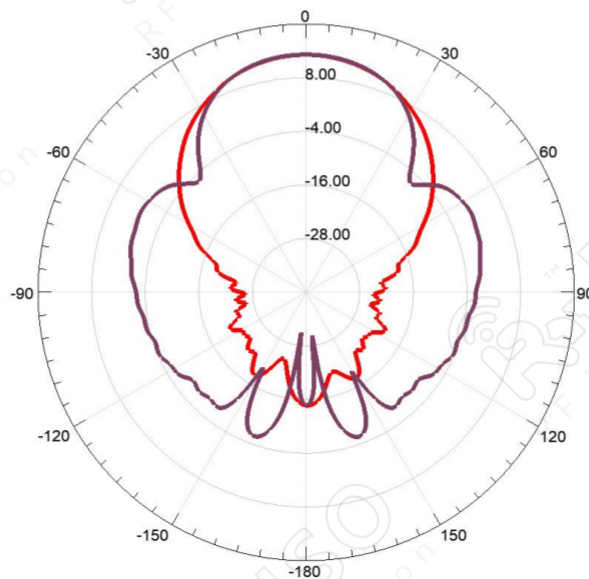
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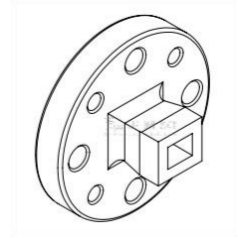
3dB Beamwidth@150GHz: E-Plane 44.86, H-plane 41.06.



3dB Beamwidth@156.67GHz: E-Plane 42.28, H-plane 42.85.



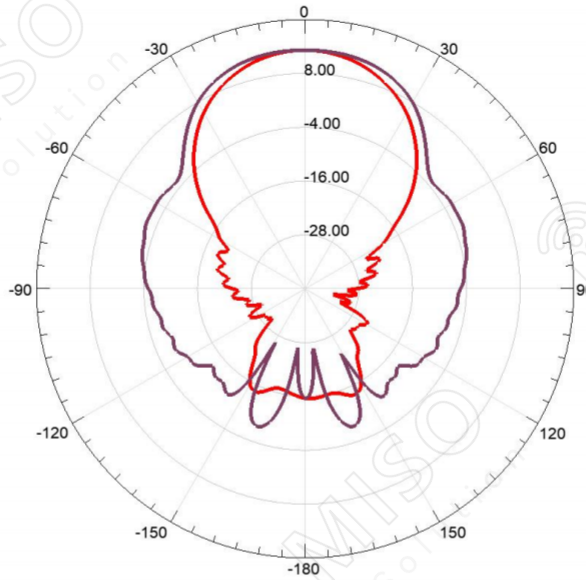
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3dB Beamwidth@163.33GHz: E-Plane 48.91, H-plane 36.83.



3dB Beamwidth@170GHz: E-Plane 45.54, H-plane 36.78

