

Standard Gain Horn Antenna
10 dBi Typ. Gain, 140-220GHz Frequency Range

Standard Gain Horn Antenna Data

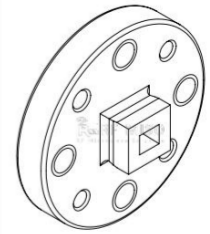
RM-SGHA5-10

Description

RF MISO's **Model RM-SGHA5-10** is a linear polarized standard gain horn antenna that operates from 140 to 220 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-SGHA5-10			
Item	Specification		Units
Frequency Range	140-220		GHz
Wave-guide	WR5		
Gain	10 Typ.		dBi
VSWR	<1.2		
Polarization	Linear		
Cross Polarization	56 Typ.		dB
3dB Beamwidth	E-Plane:40.9~61.3	H-Plane:50.7~37.5	deg
Material	Brass		
Size	Ø19.05*6.96(±5)		mm
Weight	0.008		kg

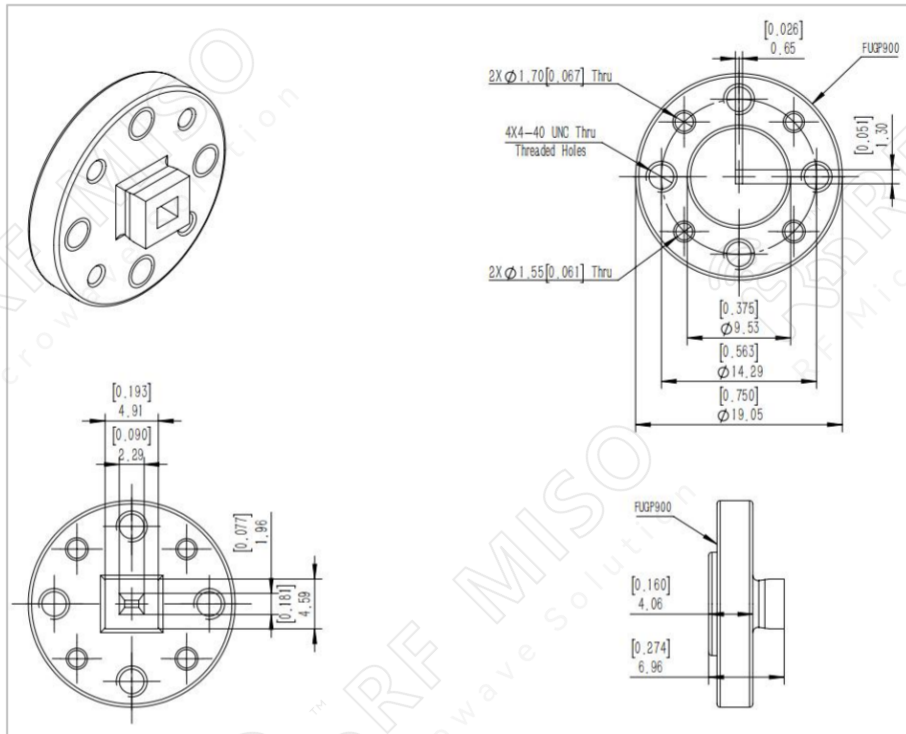


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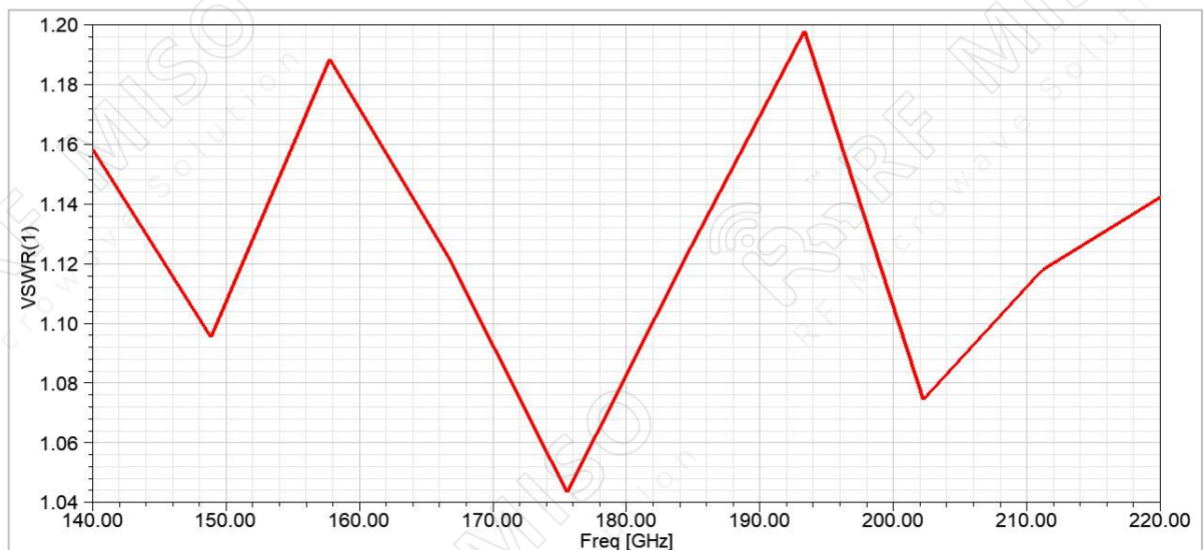
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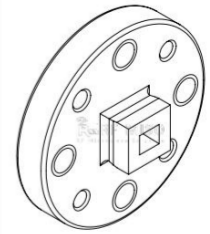
Outline Drawing



Simulated Data

VSWR



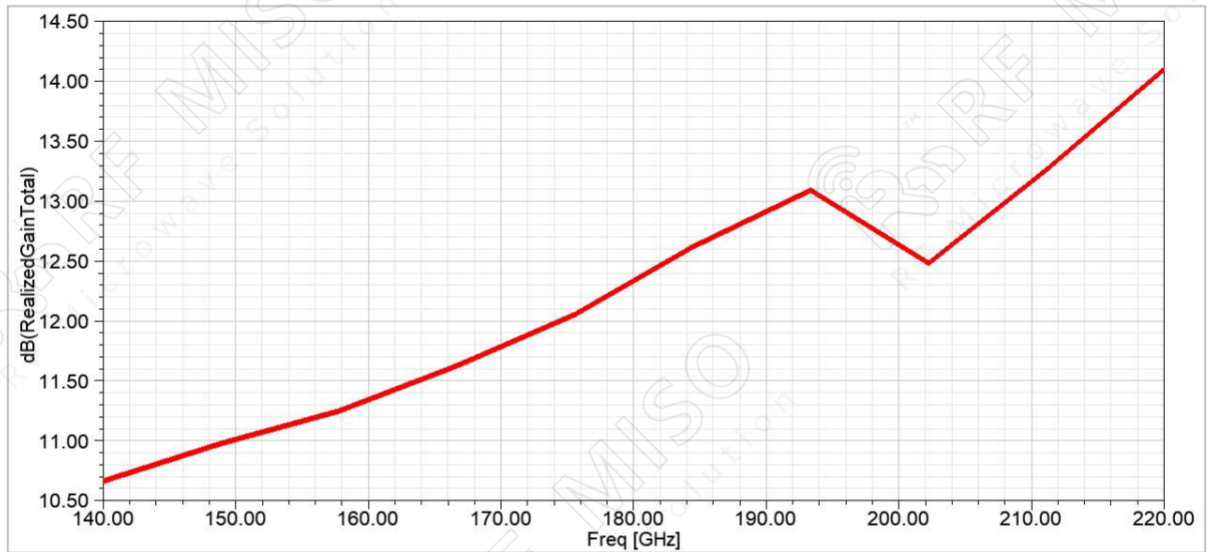


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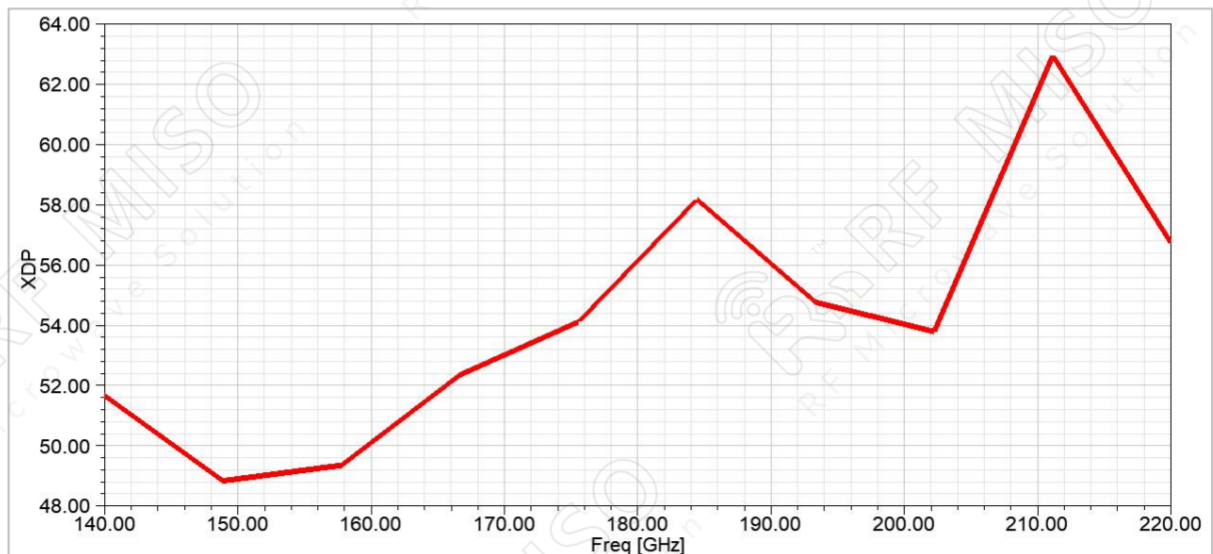
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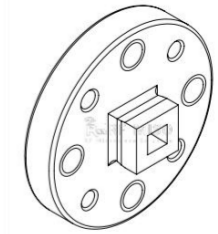
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Gain



Cross Polarization





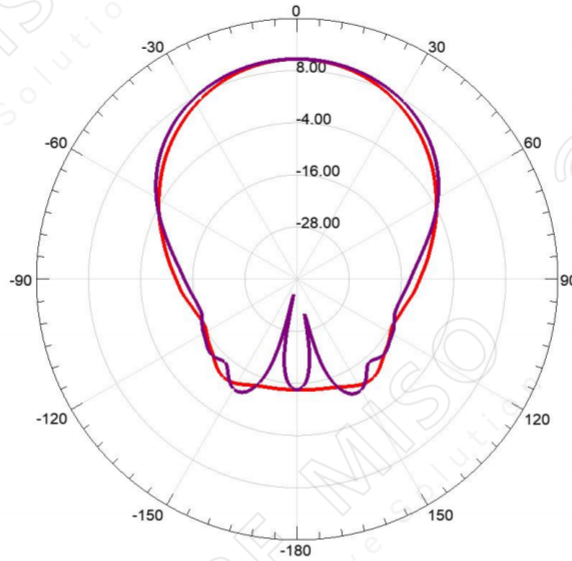
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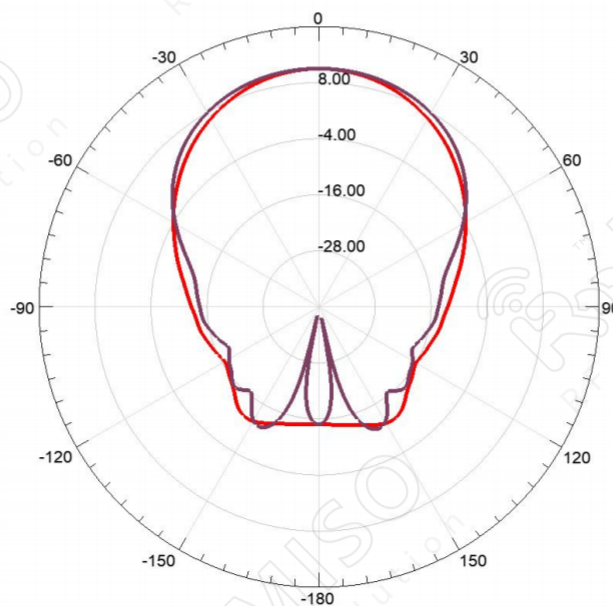
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Gain Pattern

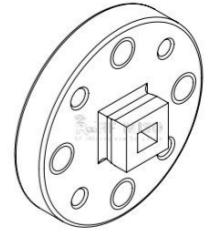
3dB Beamwidth@140GHz: E-Plane 61.27, H-plane 50.69.



3dB Beamwidth@148.89GHz: E-Plane 59.68, H-plane 48.42.



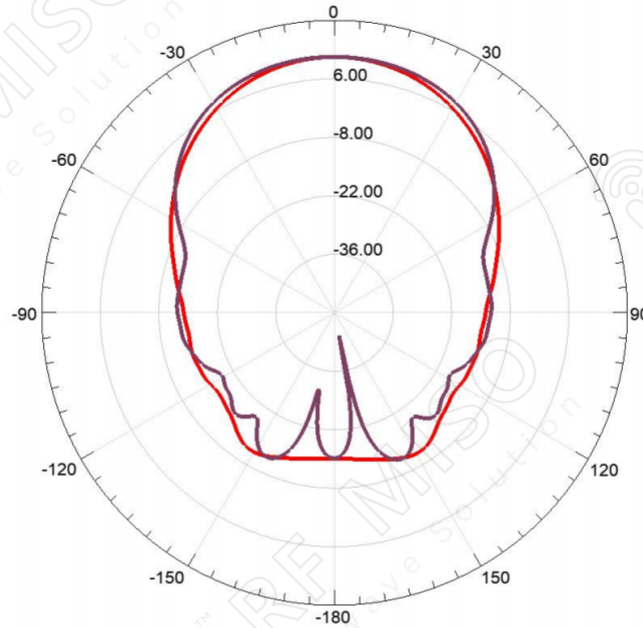
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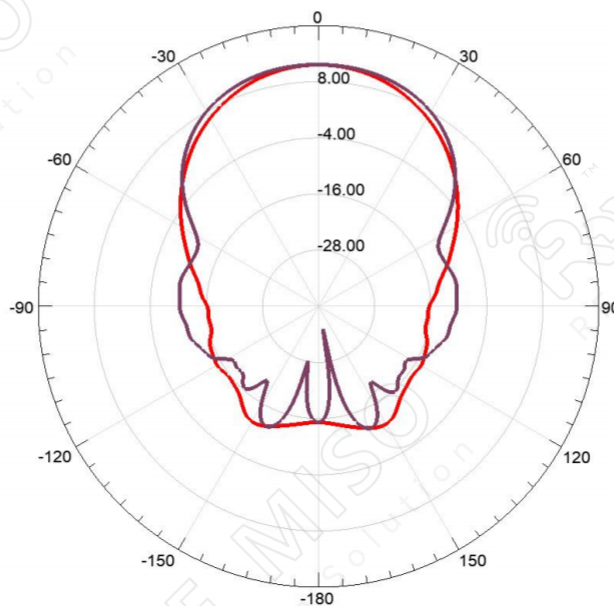
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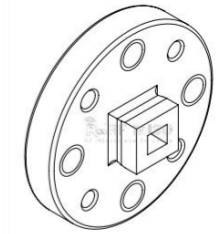
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3dB Beamwidth@157.78GHz: E-Plane 58.23, H-plane 46.99.



3dB Beamwidth@166.67GHz: E-Plane 55.74, H-plane 45.09.



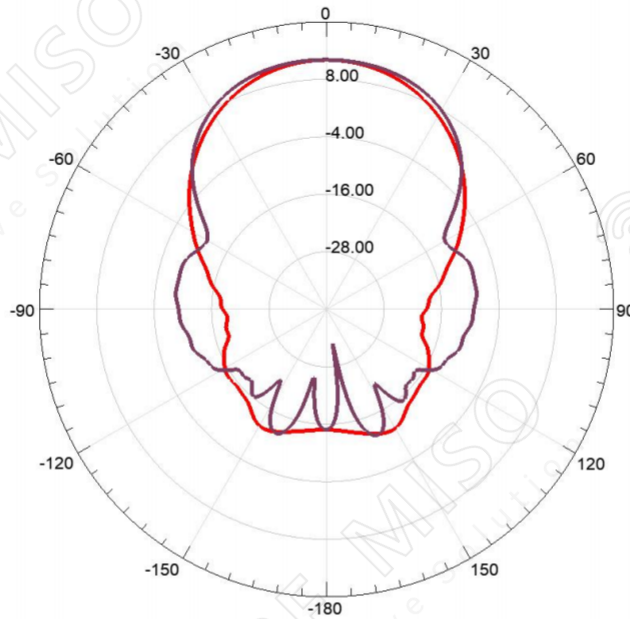


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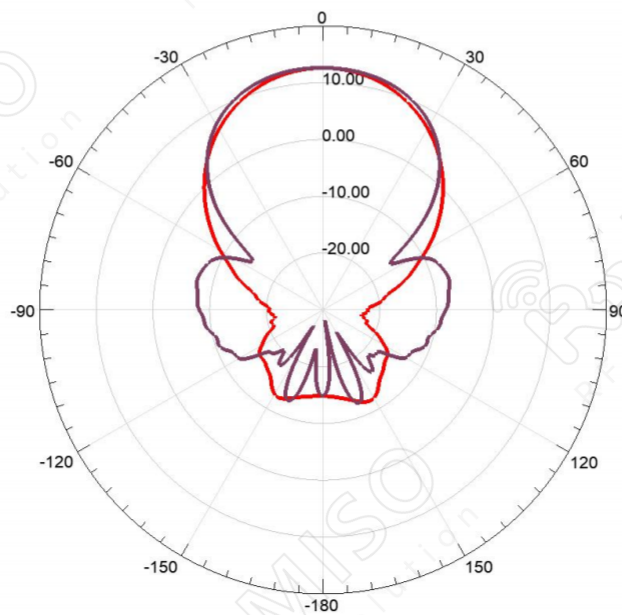
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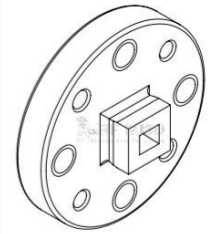
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3dB Beamwidth@175.56GHz: E-Plane 53.43, H-plane 44.21.



3dB Beamwidth@184.44GHz: E-Plane 49.57, H-plane 42.62.



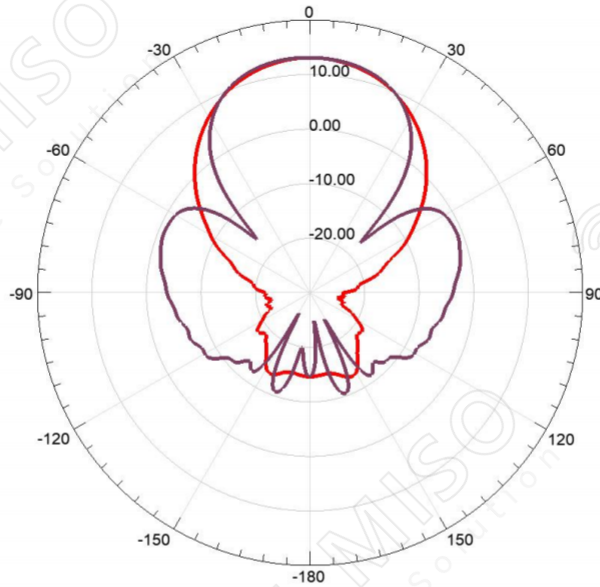


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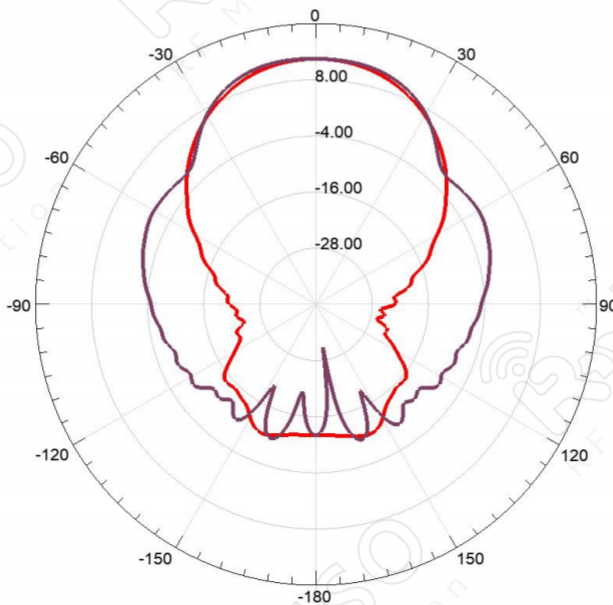
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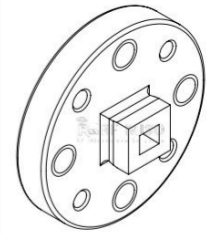
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3dB Beamwidth@193.33GHz: E-Plane 44.52, H-plane 43.21.



3dB Beamwidth@202.22GHz: E-Plane 48.04, H-plane 42.59.



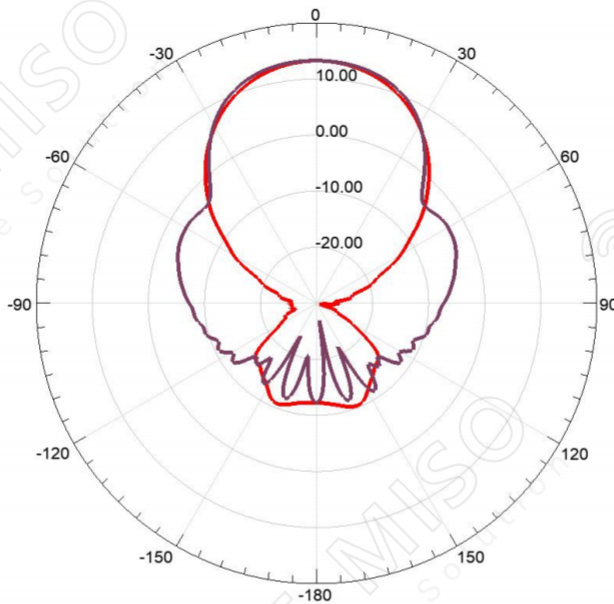


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3dB Beamwidth@211.11GHz: E-Plane 44.88, H-plane 40.28.



3dB Beamwidth@220GHz: E-Plane 40.99, H-plane 37.49.

