

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

Standard Gain Horn Antenna Data

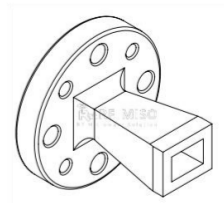
RM-SGHA5-15

Description

RF MISO's **Model RM-SGHA5-15** is a linear polarized standard gain horn antenna that operates from 140 to 220 GHz. The antenna offers a typical gain of 15 dBi and low VSWR <1.2, This antenna has flange input and coaxial input for customers to rotate.

Specifications

RM-SGHA5-15			
Item	Specification		Units
Frequency Range	140-220		GHz
Wave-guide	WR5		
Gain	15 Typ.		dBi
VSWR	<1.2		
Polarization	Linear		
Cross Polarization	58 Typ.		dB
3dB Beamwidth	E-Plane:22.8~34.1	H-Plane:29.0~19.2	deg
Material	Brass		
Size	Ø19.05*17.53(±5)		mm
Weight	0.011		kg

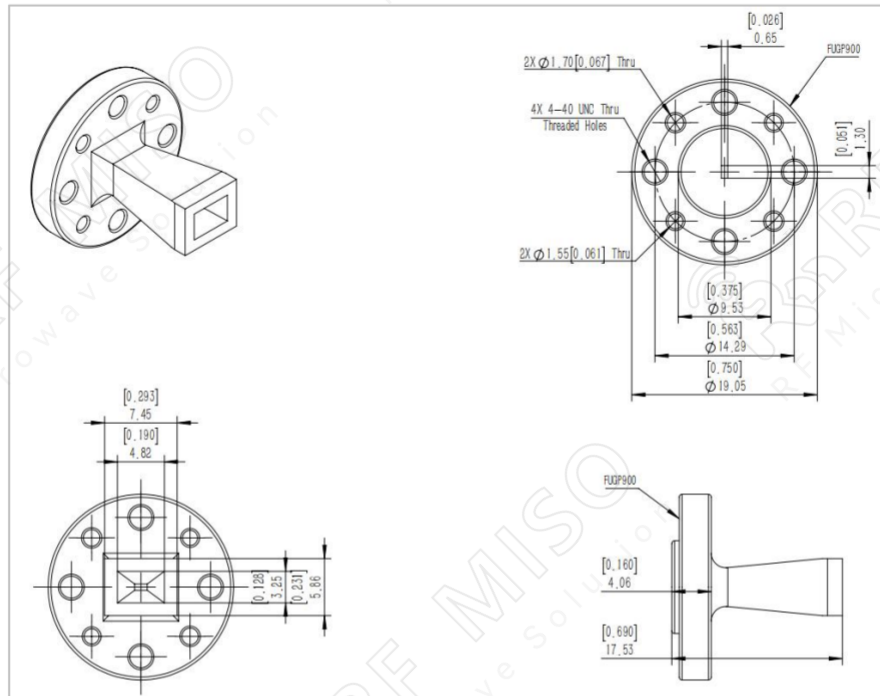


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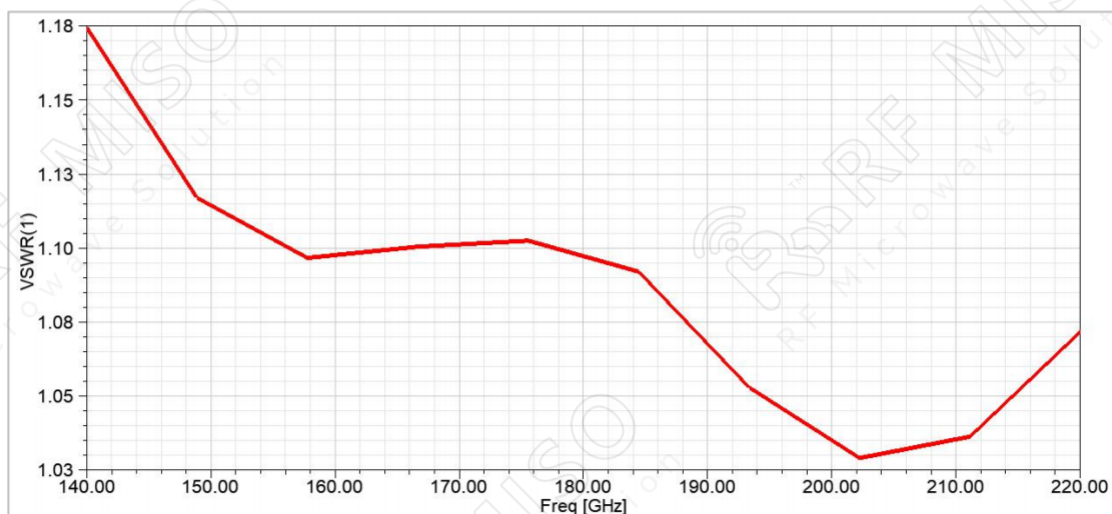
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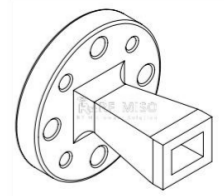
Outline Drawing



Simulated Data

VSWR



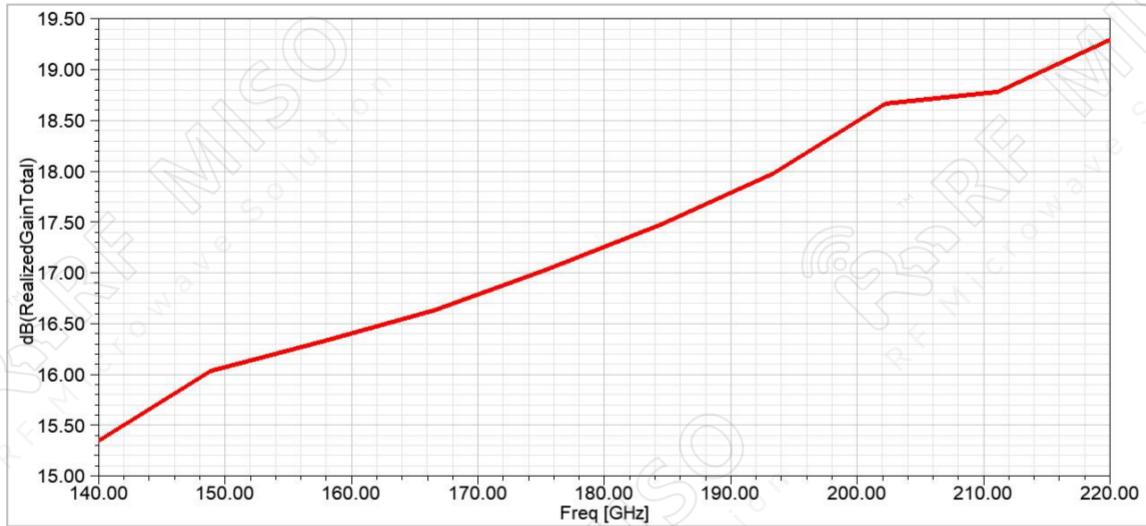


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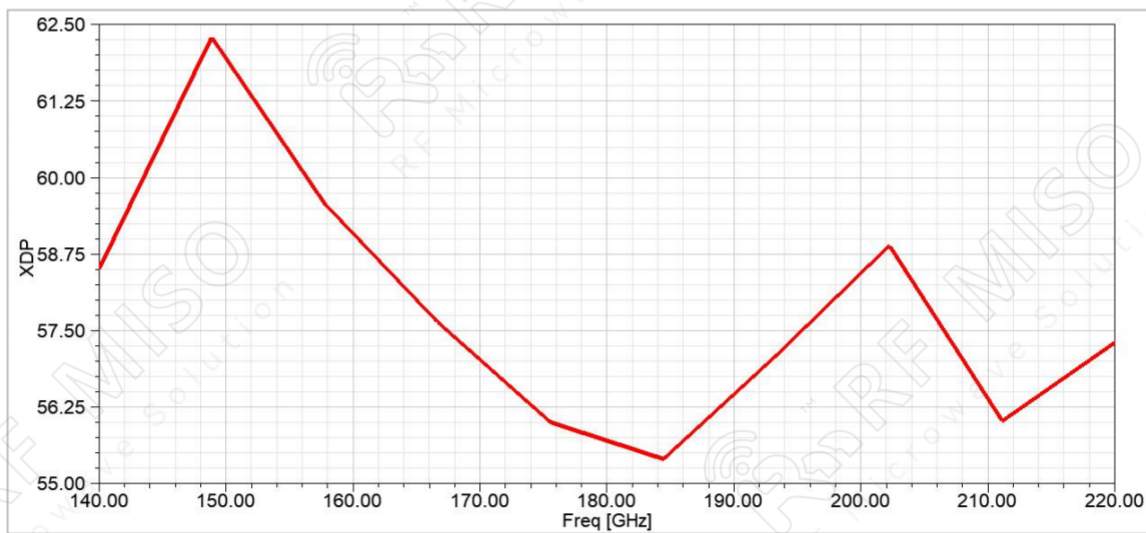
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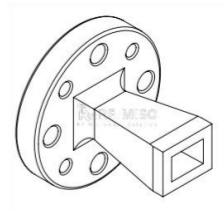
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Gain



Cross Polarization





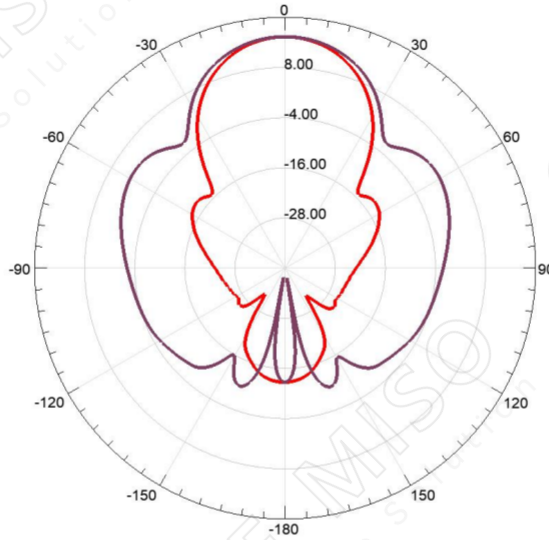
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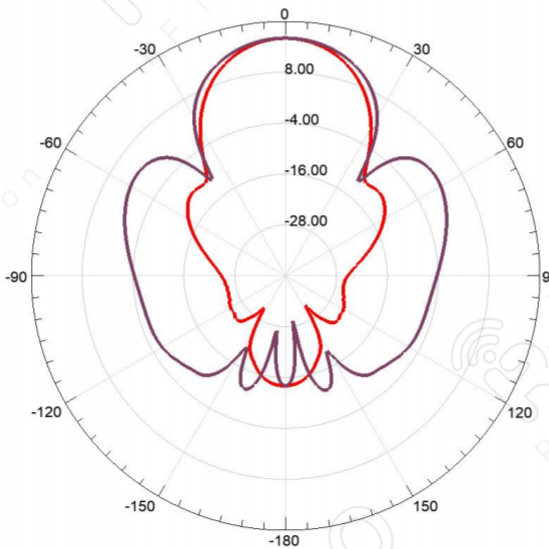
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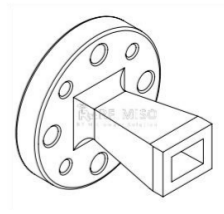
Gain Pattern

3dB Beamwidth@140GHz: E-Plane 34.14, H-plane 29.03.



3dB Beamwidth@148.88GHz: E-Plane 32.73, H-plane 27.32.



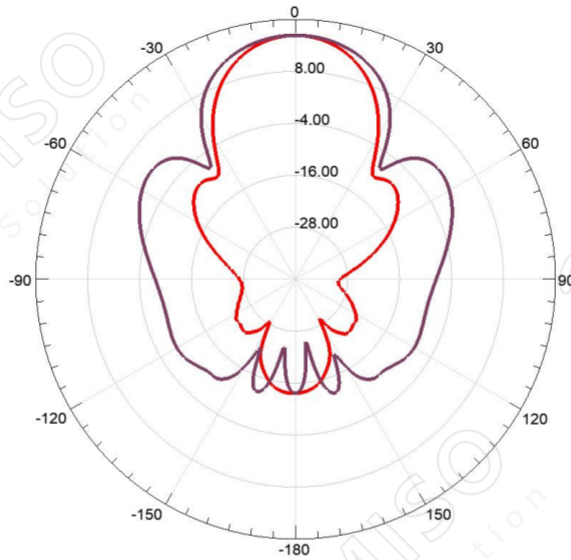


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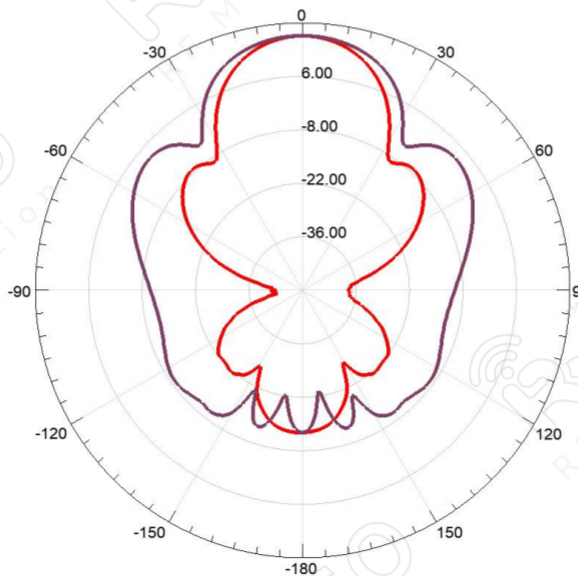
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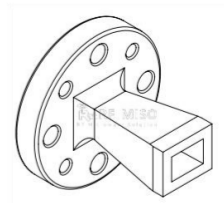
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3dB Beamwidth@157.78GHz: E-Plane 33.33, H-plane 25.86.



3dB Beamwidth@166.67GHz: E-Plane 32.45, H-plane 24.55.



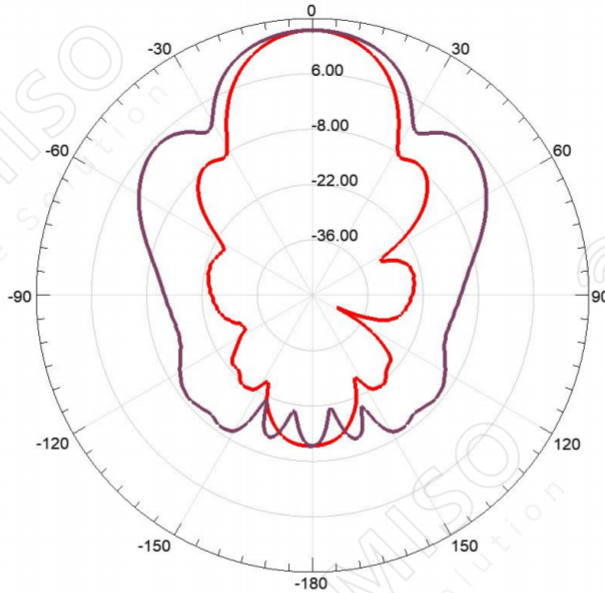


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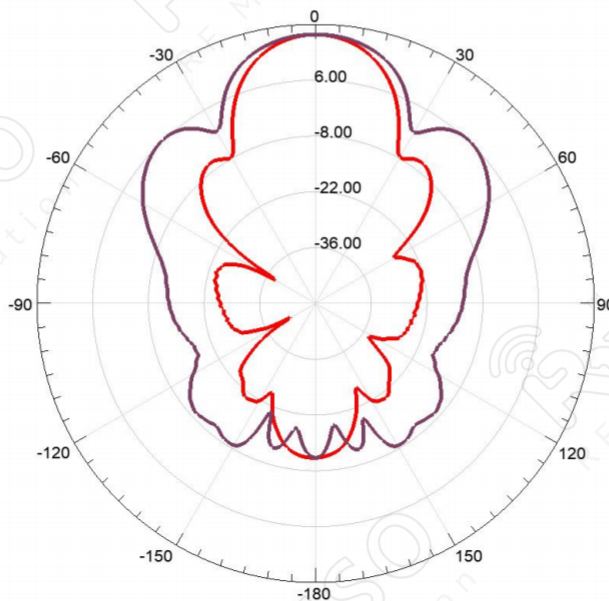
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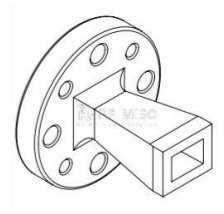
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3dB Beamwidth@175.56GHz: E-Plane 30.81, H-plane 23.19.



3dB Beamwidth@184.44GHz: E-Plane 28.58, H-plane 22.17.



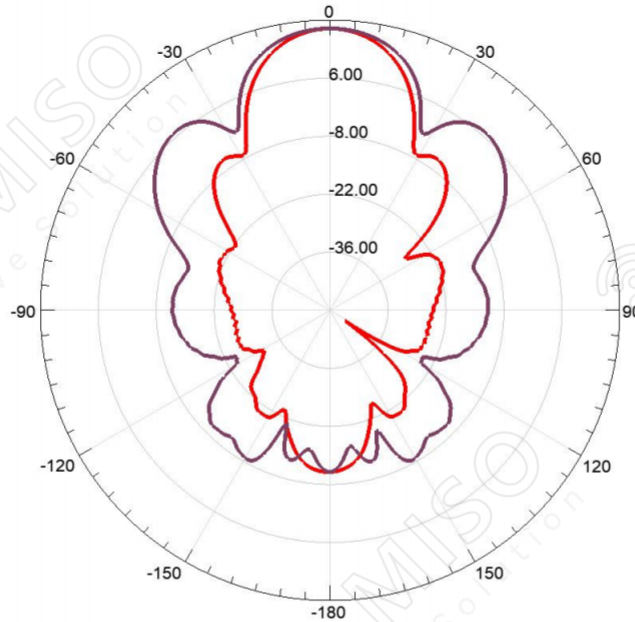


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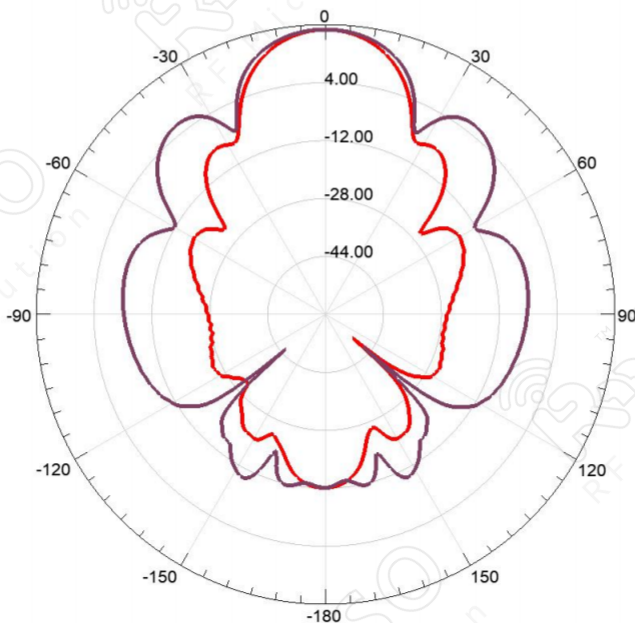
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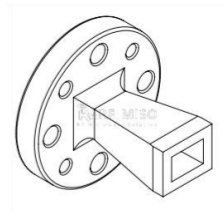
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3dB Beamwidth@193.33GHz: E-Plane 26.42, H-plane 21.37.



3dB Beamwidth@202.22GHz: E-Plane 24.24, H-plane 21.51.



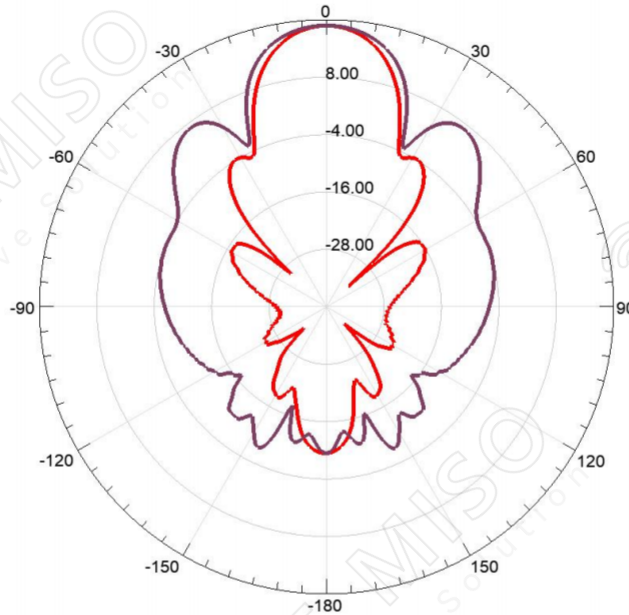


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3dB Beamwidth@211.11GHz: E-Plane 24.46, H-plane 19.69.



3dB Beamwidth@220GHz: E-Plane 22.85, H-plane 19.16.

