

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

Standard Gain Horn Antenna Data

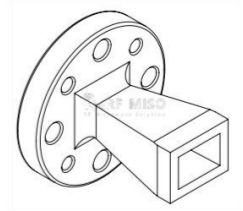
RM-SGHA7-15

Description

RF MISO's **Model RM-SGHA7-15** is a linear polarized standard gain horn antenna that operates from 110 to 170 GHz. The antenna offers a typical gain of 15 dBi and low VSWR <1.3, This antenna has flange input and coaxial input for customers to rotate.

Specifications

RM-SGHA7-15			
Item	Specification		Units
Frequency Range	110-170		GHz
Wave-guide	WR7		
Gain	15 Typ.		dBi
VSWR	<1.3		
Polarization	Linear		
Cross Polarization	60 Typ.		dB
3dB Beamwidth	E-Plane:23.2-33.1	H-Plane:19.3-28.3	deg
Material	Brass		
Size	Ø19.05*18.53(±5)		mm
Weight	0.011		kg

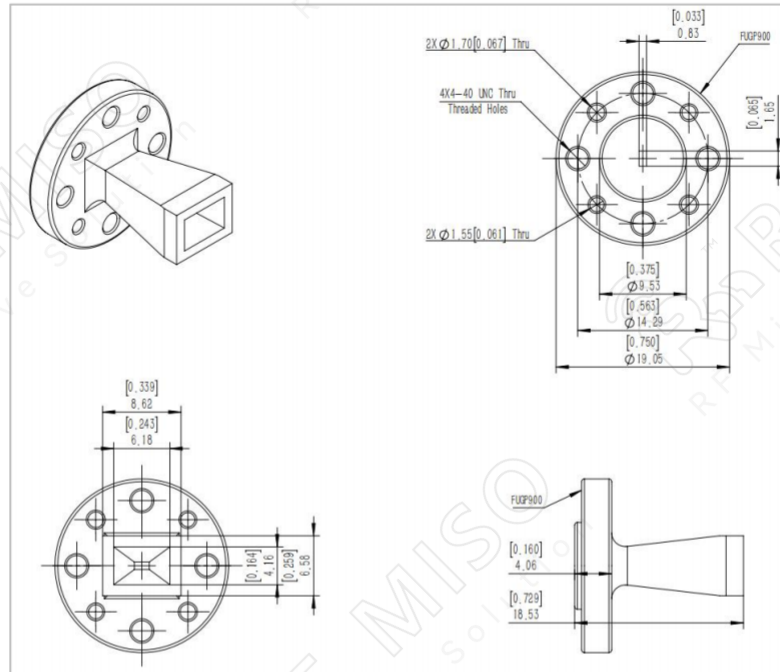


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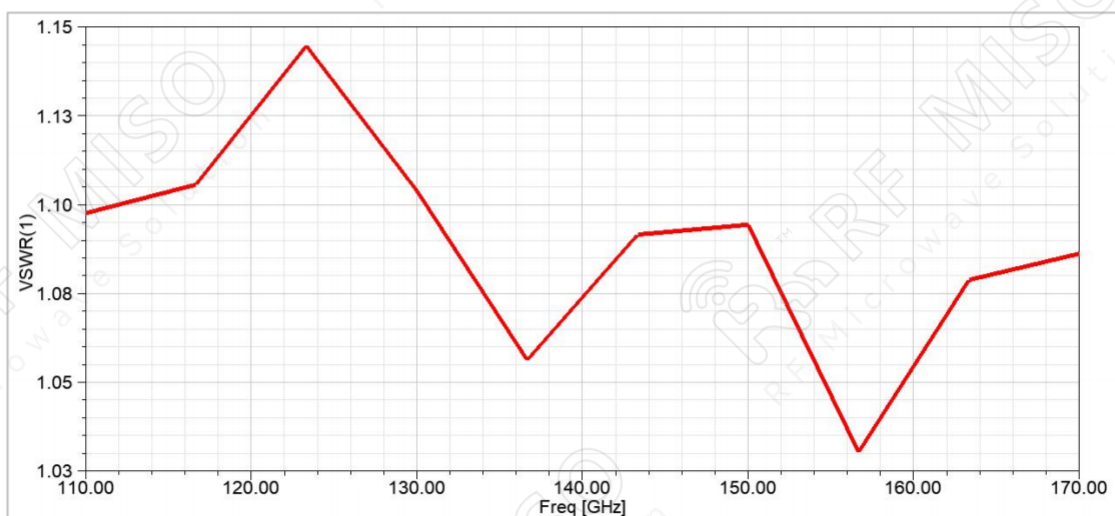
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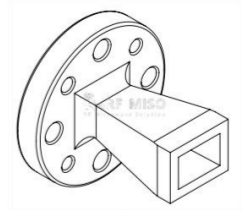
Outline Drawing



Simulated Data

VSWR



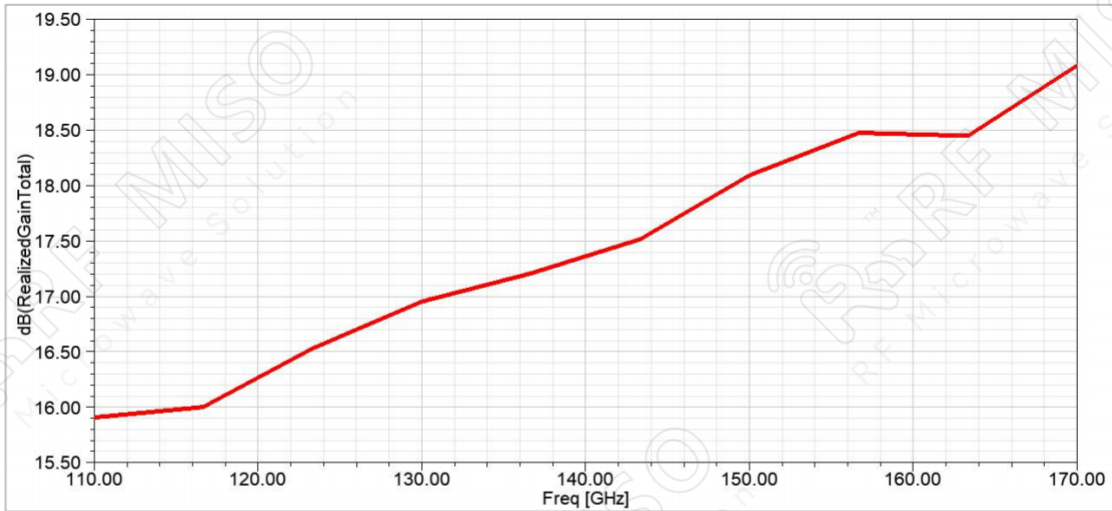


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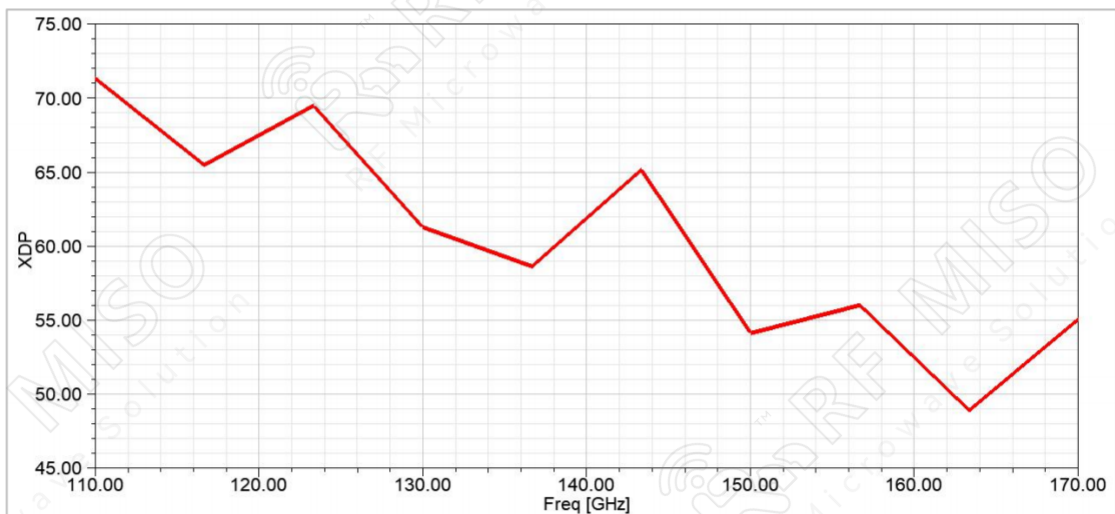
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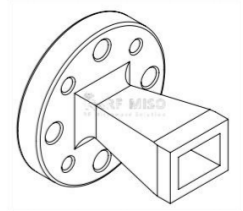
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Gain



Cross Polarization





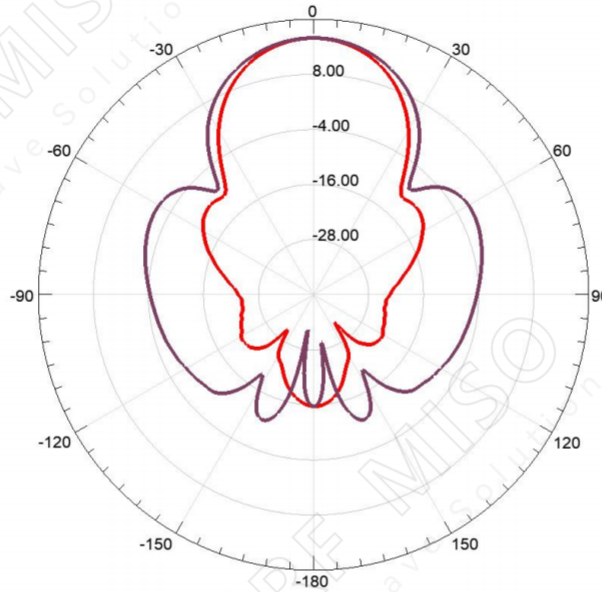
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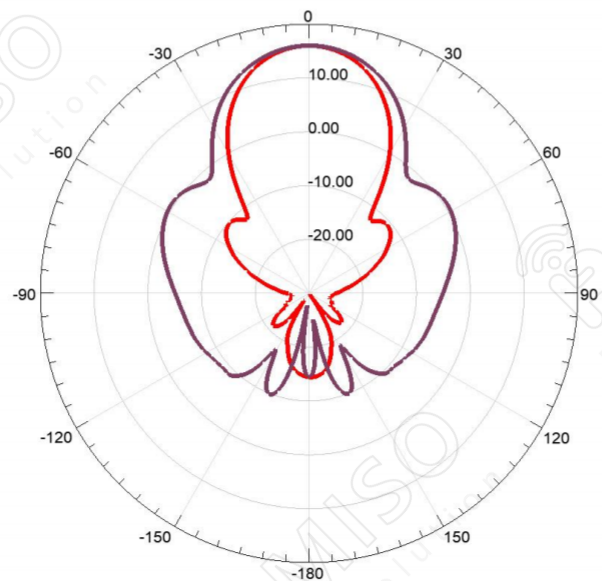
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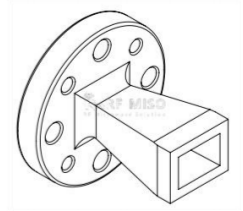
Gain Pattern

3dB Beamwidth@110GHz: E-Plane 33.05, H-plane 28.31.



3dB Beamwidth@116.67GHz: E-Plane 32.97, H-plane 27.22.



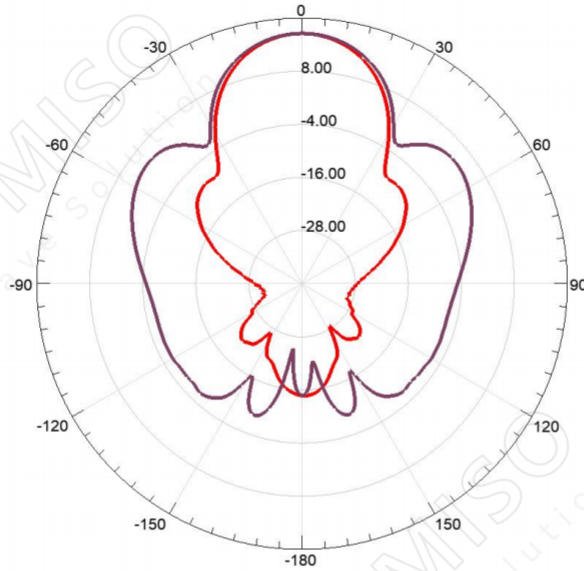


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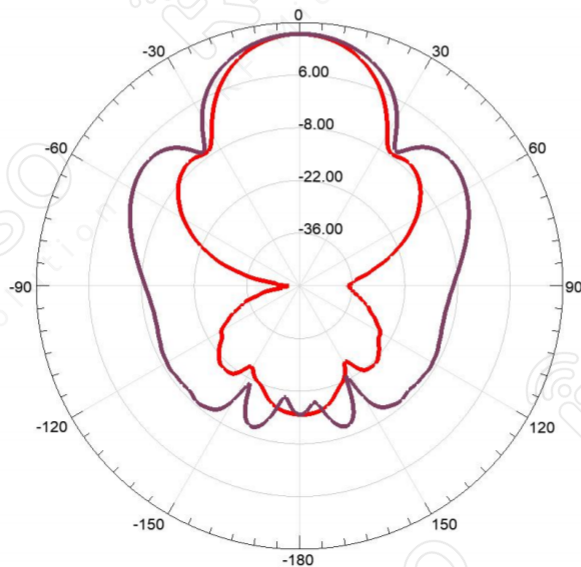
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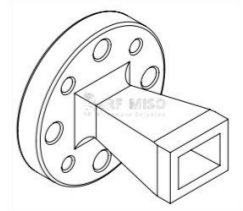
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3dB Beamwidth@123.33GHz: E-Plane 29.15, H-plane 26.23.



3dB Beamwidth@130GHz: E-Plane 30.06, H-plane 24.65.



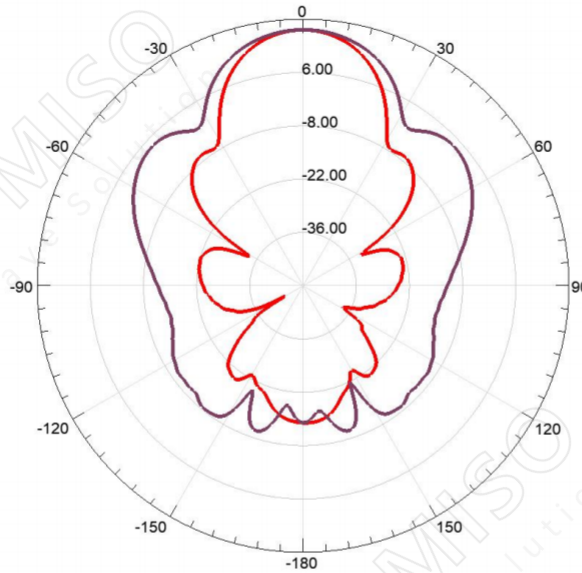


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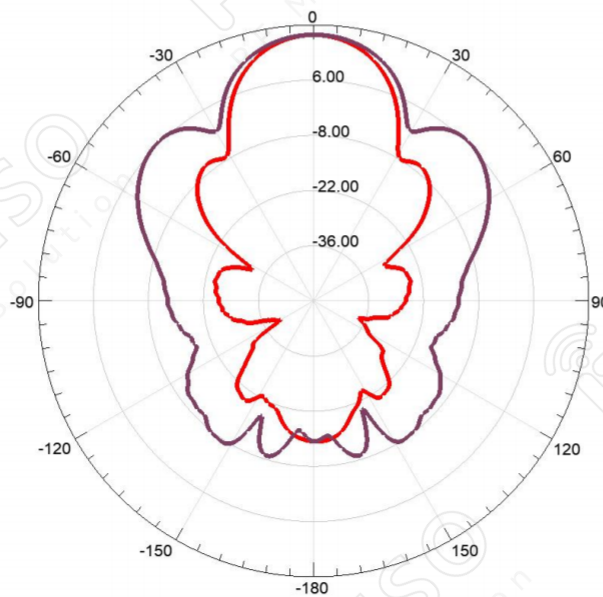
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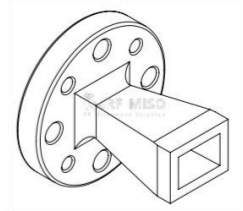
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3dB Beamwidth@136.67GHz: E-Plane 29.66, H-plane 23.11.



3dB Beamwidth@143.33GHz: E-Plane 27.19, H-plane 22.69.



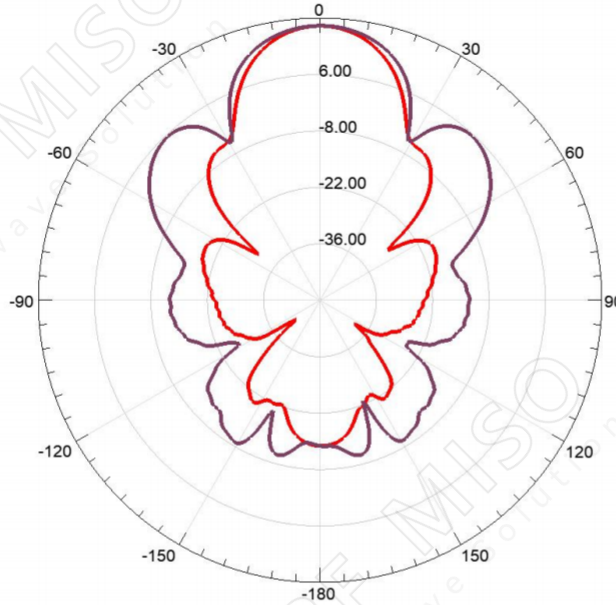


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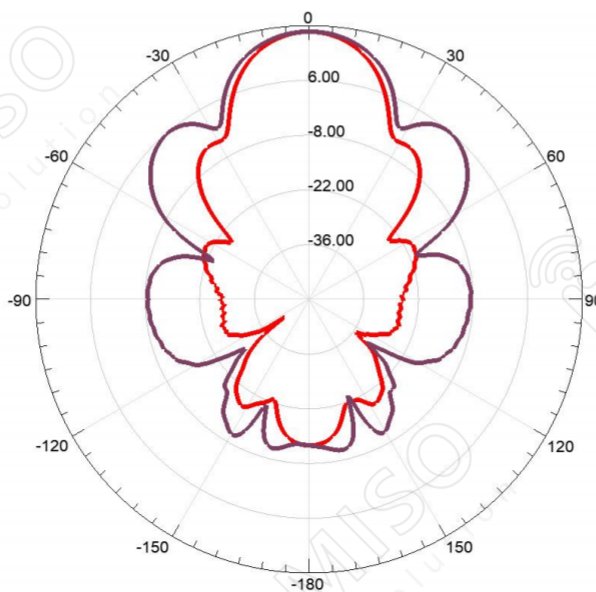
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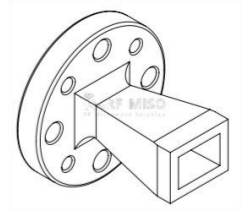
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3dB Beamwidth@150GHz: E-Plane 26.3, H-plane 21.64.



3dB Beamwidth@156.67GHz: E-Plane 25.01, H-plane 20.86.



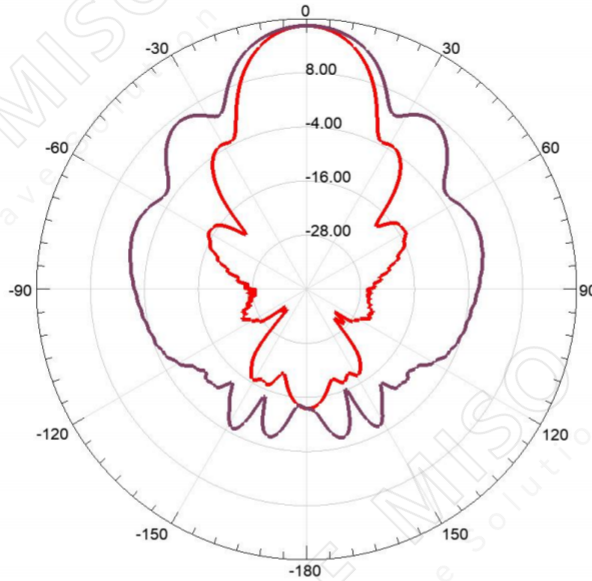


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3dB Beamwidth@163.33GHz: E-Plane 25.30, H-plane 19.91.



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

