

Standard Gain Horn Antenna
15 dBi Typ. Gain, 90-140GHz Frequency Range

Standard Gain Horn Antenna Data

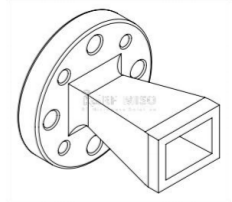
RM-SGHA8-15

Description

RF MISO's **Model RM-SGHA8-15** is a linear polarized standard gain horn antenna that operates from 90 to 140 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-SGHA8-15			
Item	Specification		Units
Frequency Range	90-140		GHz
Wave-guide	WR8		
Gain	15 Typ.		dBi
VSWR	<1.2		
Polarization	Linear		
Cross Polarization	62 Typ.		dB
3dB Beamwidth	E-Plane:22.8-32.8	H-Plane:19.2-28.9	deg
Material	Brass		
Size	Ø19.05*19.53(±5)		mm
Weight	0.012		kg

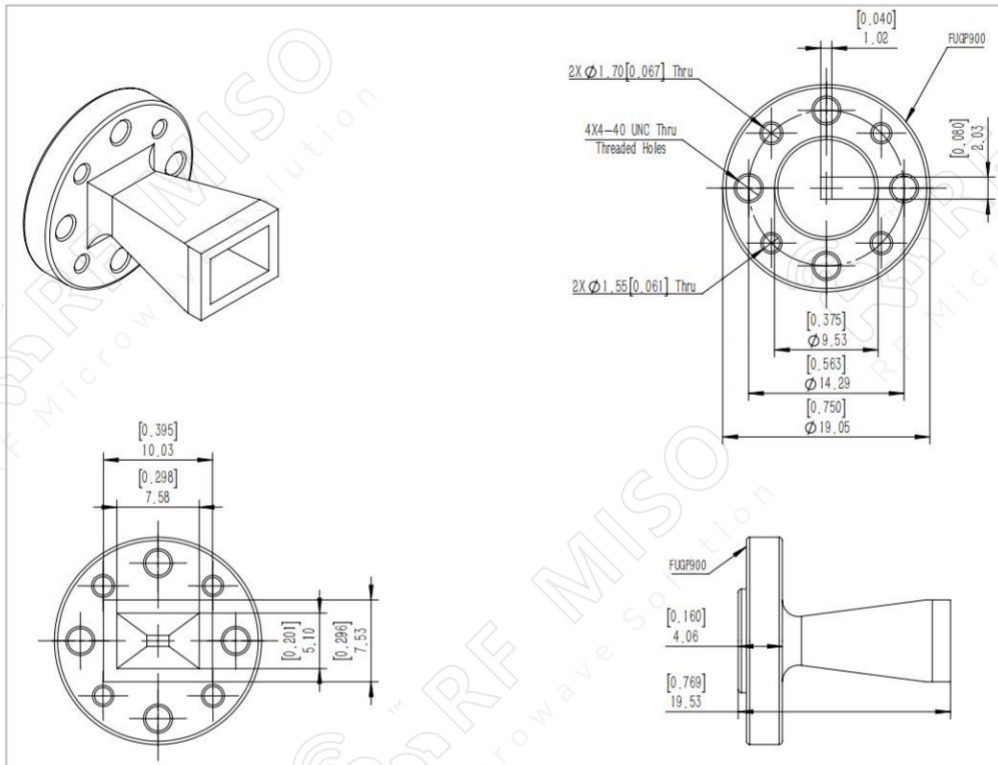


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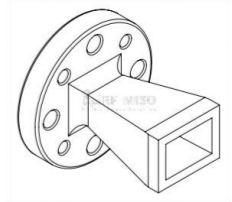
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Outline Drawing



Simulated Data



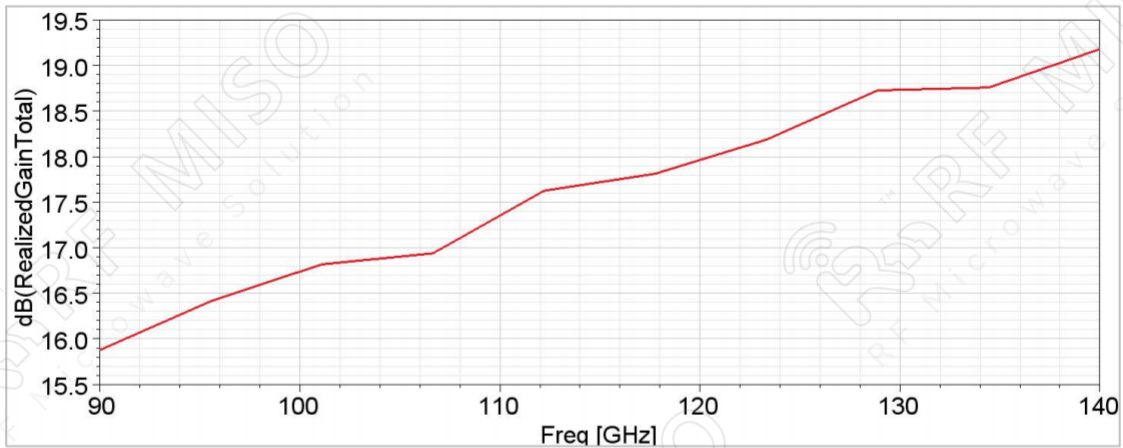


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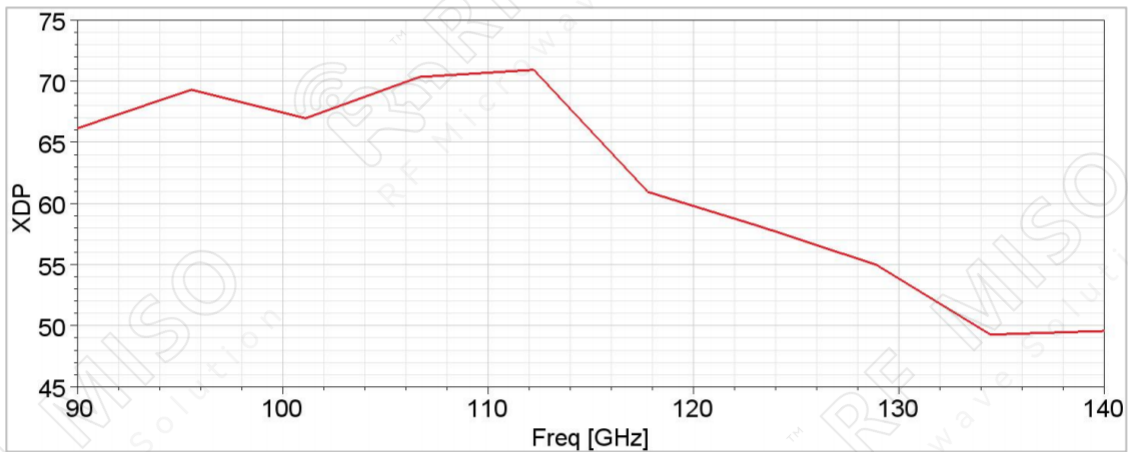
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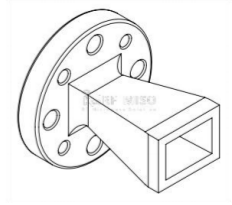
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Gain



Cross Polarization





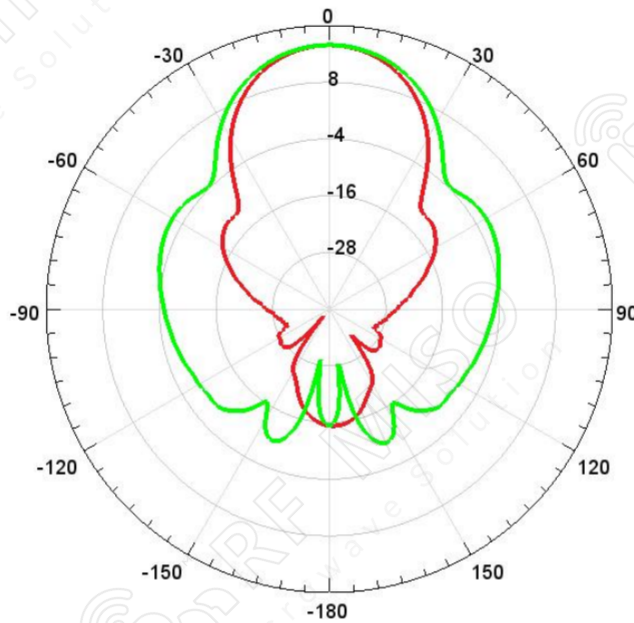
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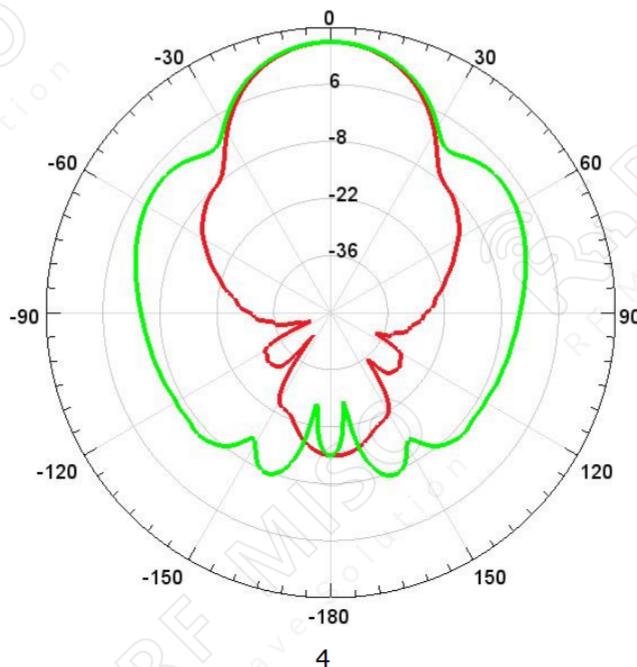
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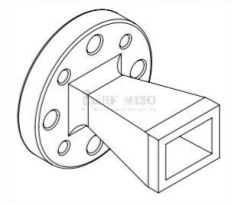
Gain Pattern

3dB Beamwidth@90GHz: E-Plane 32.81, H-plane 28.49.



3dB Beamwidth@95.5GHz: E-Plane 29.03, H-plane 27.19.



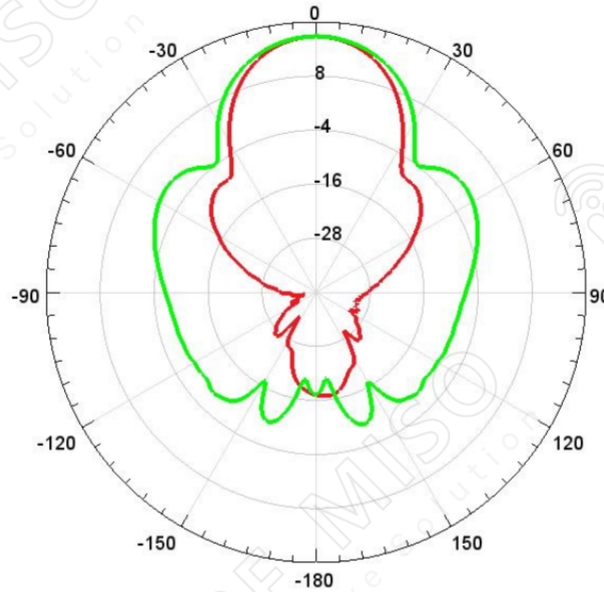


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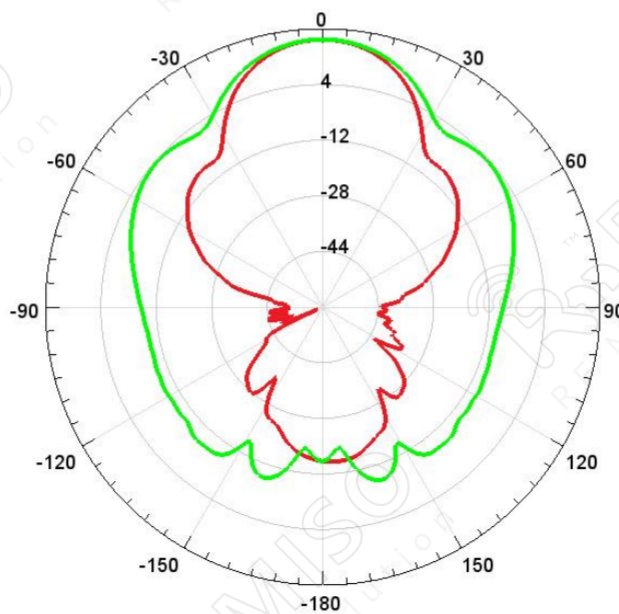
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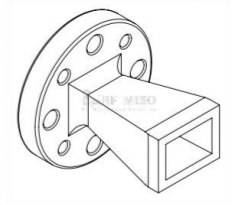
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3dB Beamwidth@101.1GHz: E-Plane 30.04, H-plane 25.51.



3dB Beamwidth@106.6GHz: E-Plane 28.7, H-plane 24.79.



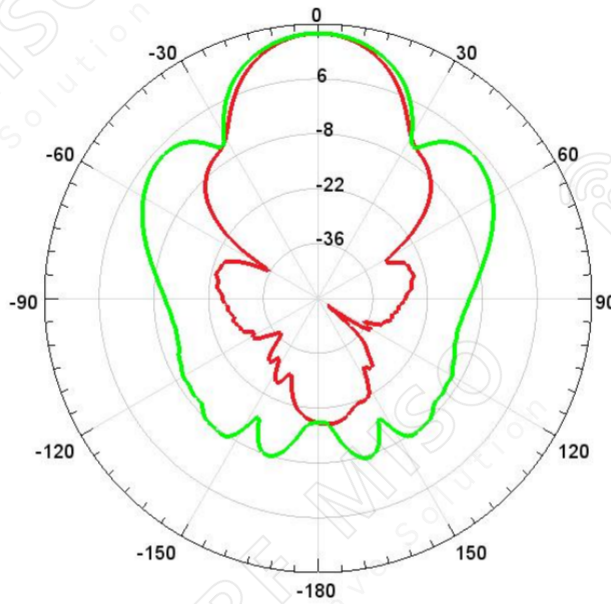


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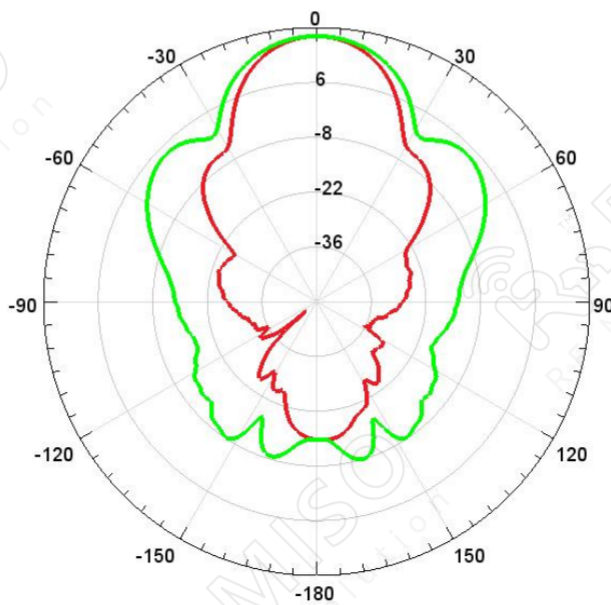
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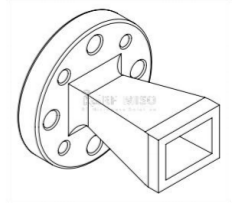
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3dB Beamwidth@112.2GHz: E-Plane 26.99, H-plane 23.31.



3dB Beamwidth@117.7GHz: E-Plane 27.34, H-plane 22.3.



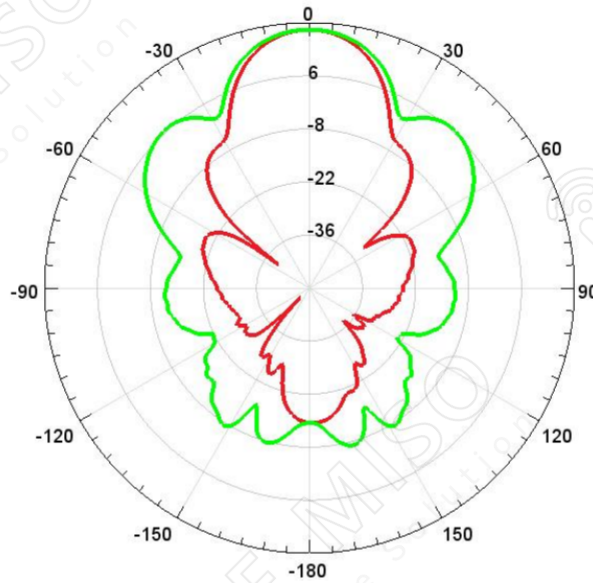


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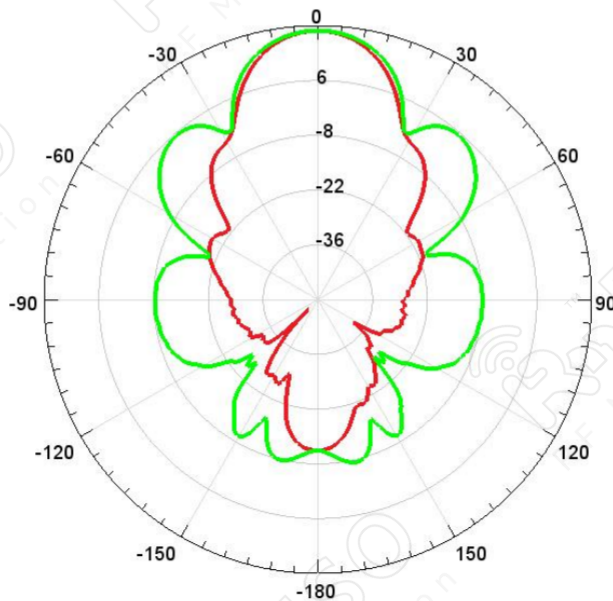
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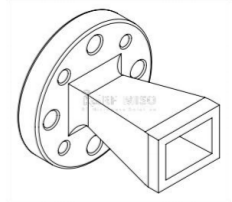
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3dB Beamwidth@123.3GHz: E-Plane 25.15, H-plane 21.42.



3dB Beamwidth@128.8GHz: E-Plane 23.99, H-plane 20.91.



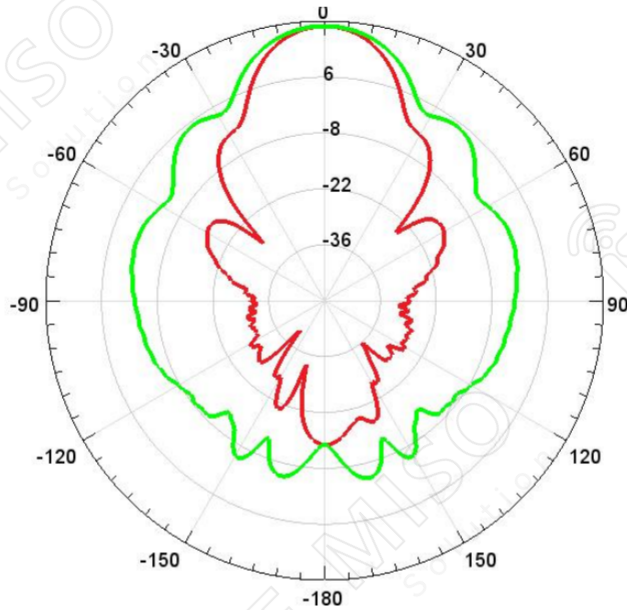


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3dB Beamwidth@134.4GHz: E-Plane 24.6, H-plane 19.6.



3dB Beamwidth@140GHz: E-Plane 22.83, H-plane 19.2.

