

Standard Gain Horn Antenna
15 dBi Typ. Gain, 60-90GHz Frequency Range

Standard Gain Horn Antenna Data

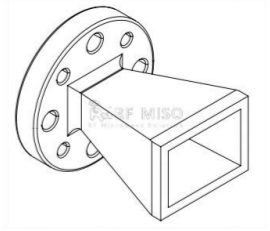
RM-SGHA12-15

Description

RF MISO's **Model RM-SGHA12-15** is a linear polarized standard gain horn antenna that operates from 60 to 90 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-SGHA12-15			
Item	Specification		Units
Frequency Range	60-90		GHz
Wave-guide	WR12		
Gain	15 Typ.		dBi
VSWR	<1.3		
Polarization	Linear		
Cross Polarization	60 Typ.		dB
3dB Beamwidth	E-Plane: 21.7-29.9	H-Plane: 20.4-28.3	deg
Material	Brass		
Size	Ø19.05*21.53(±5)		mm
Weight	0.018		kg

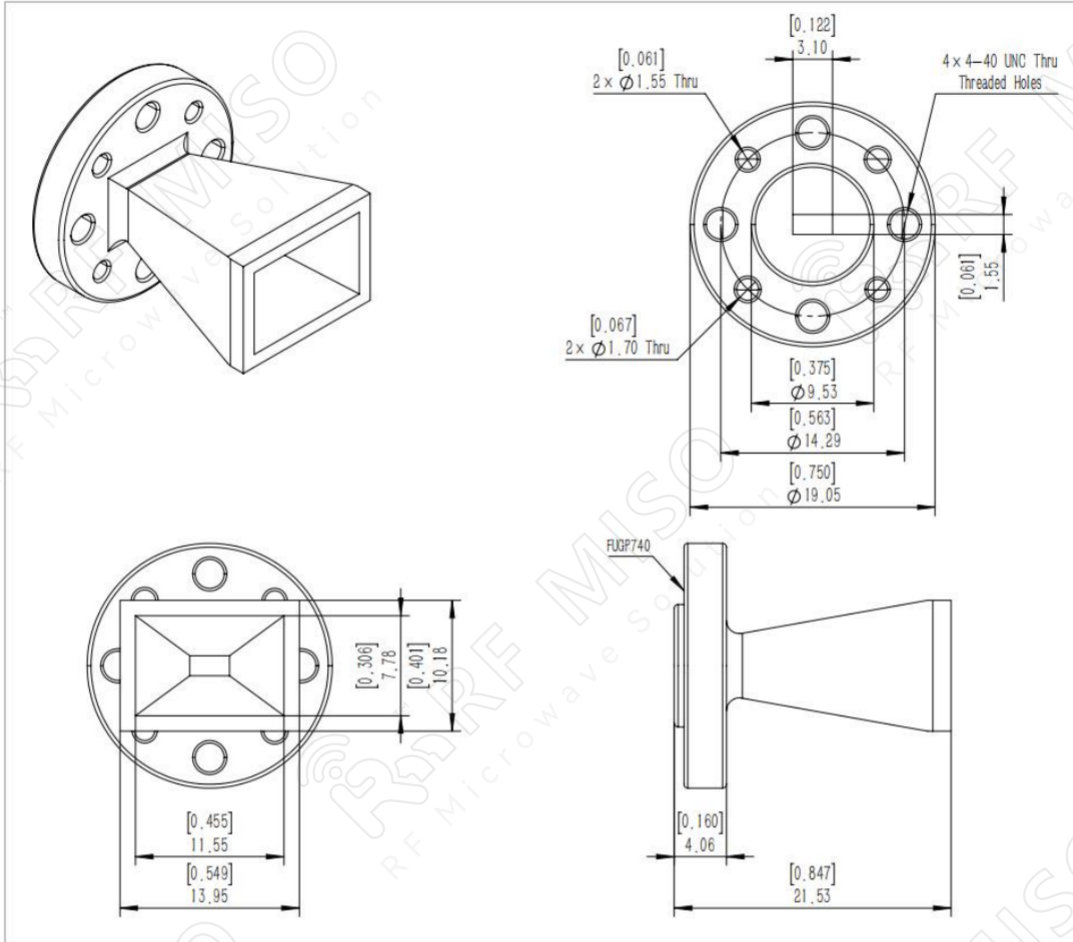


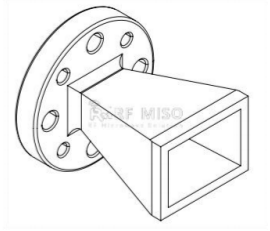
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Outline Drawing





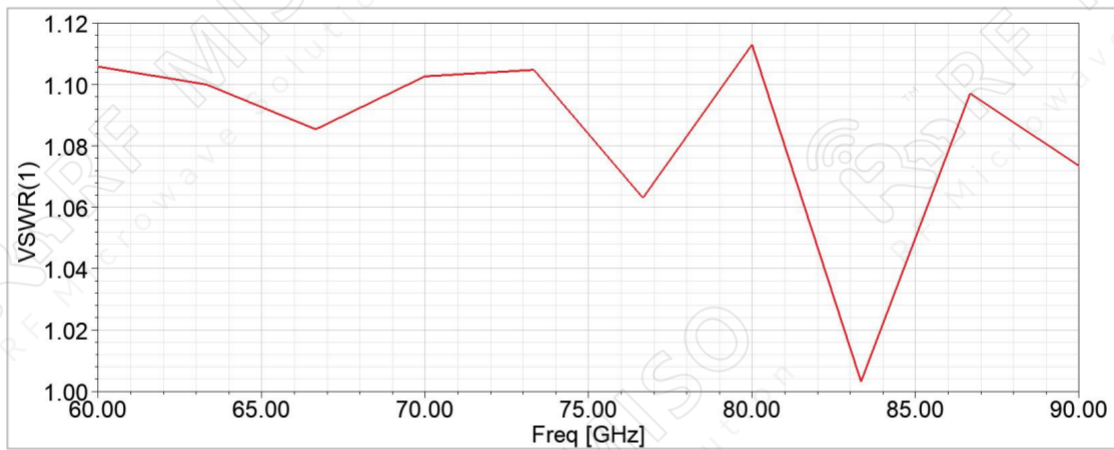
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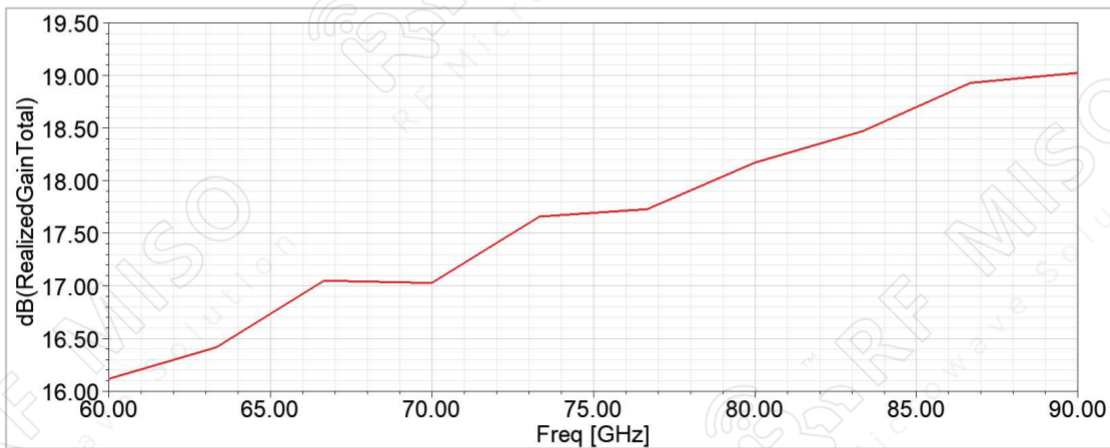
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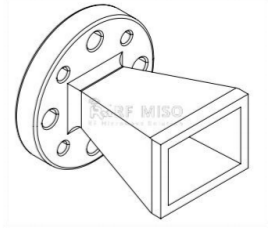
Simulated Data

VSWR



Gain



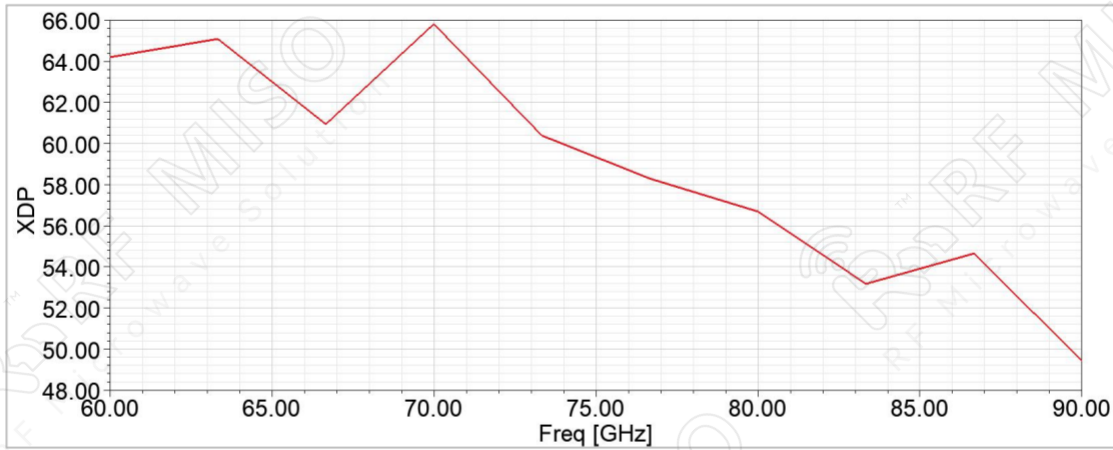


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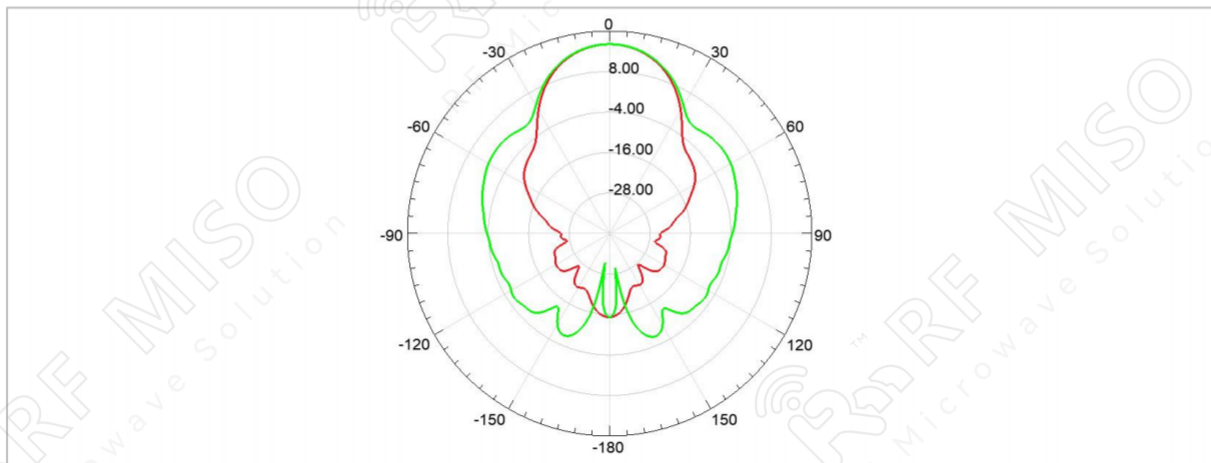
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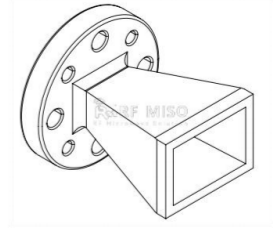
Cross Polarization



Gain Pattern

3dB Beamwidth@60GHz: E-Plane 29.92, H-plane 28.39.



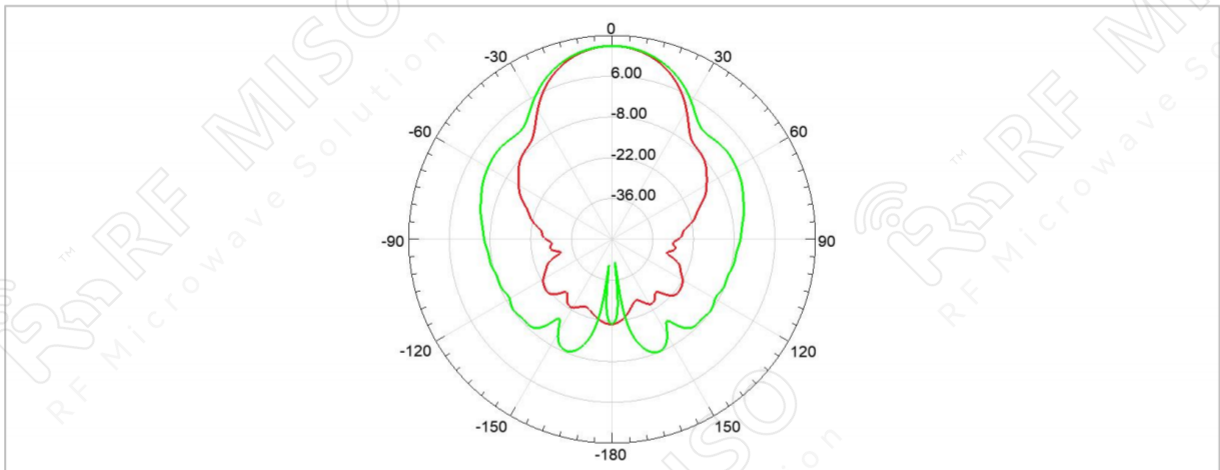


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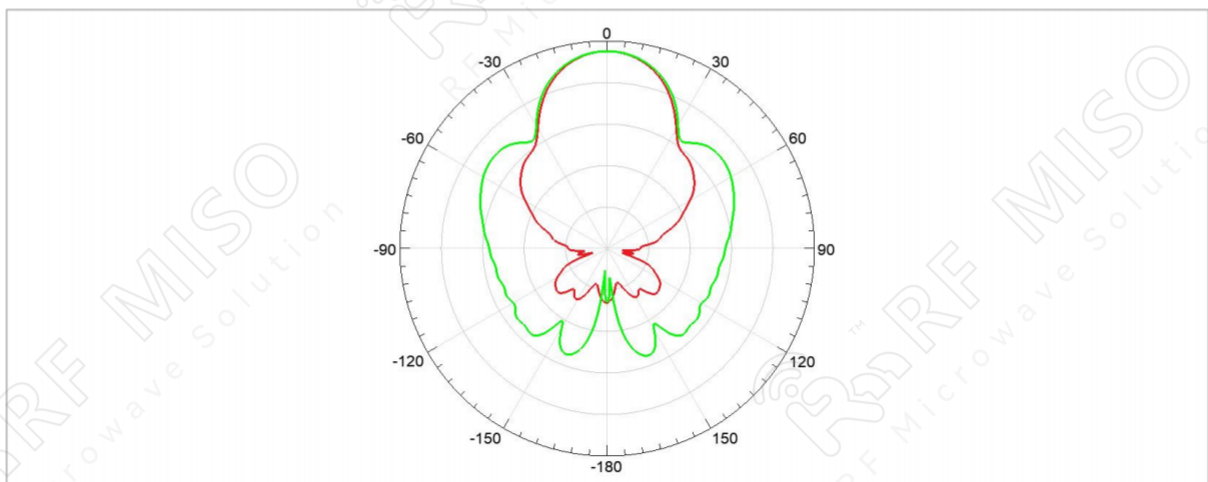
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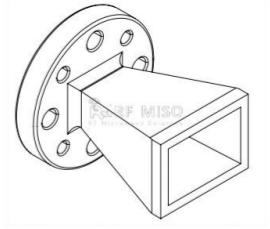
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3dB Beamwidth@63.3GHz: E-Plane 30.34, H-plane 27.21.



3dB Beamwidth@66.6GHz: E-Plane 27.65, H-plane 25.81.



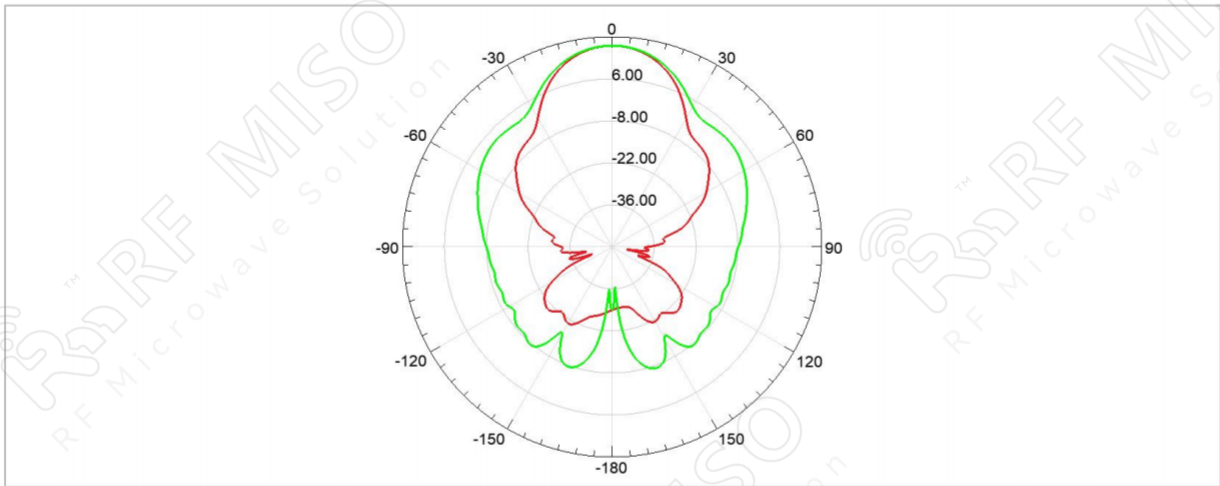


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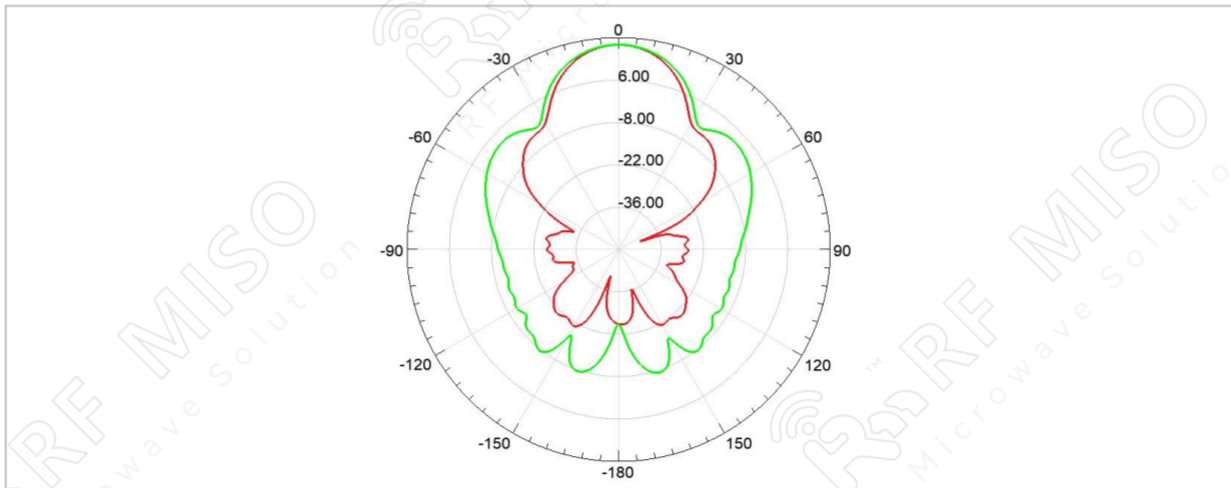
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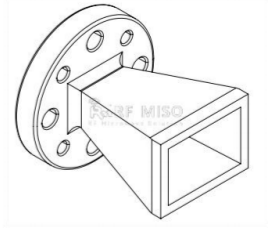
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3dB Beamwidth@70GHz: E-Plane 27.79, H-plane 25.09.



3dB Beamwidth@73.3GHz: E-Plane 26.74, H-plane 23.65.



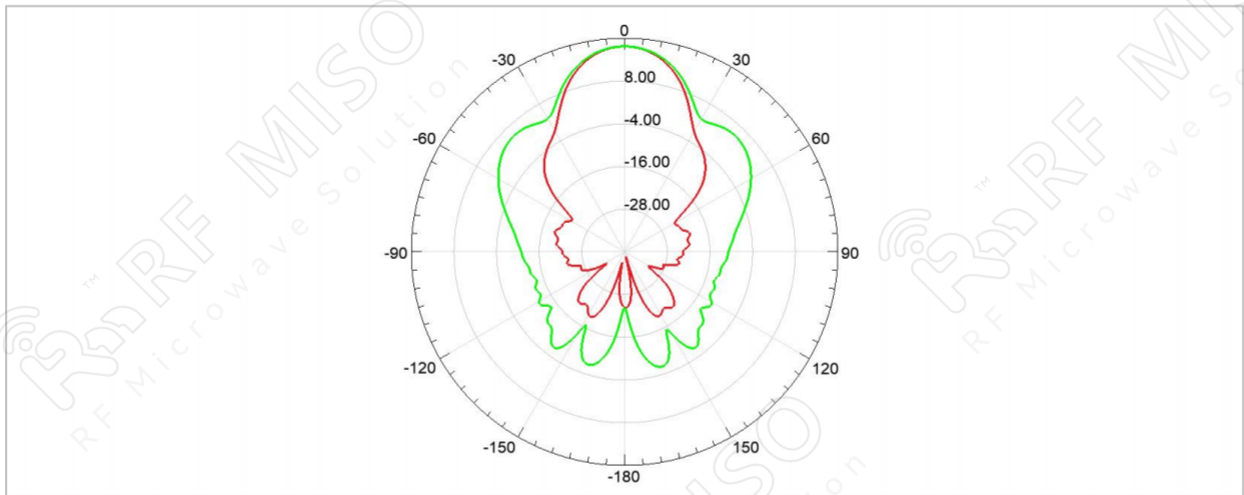


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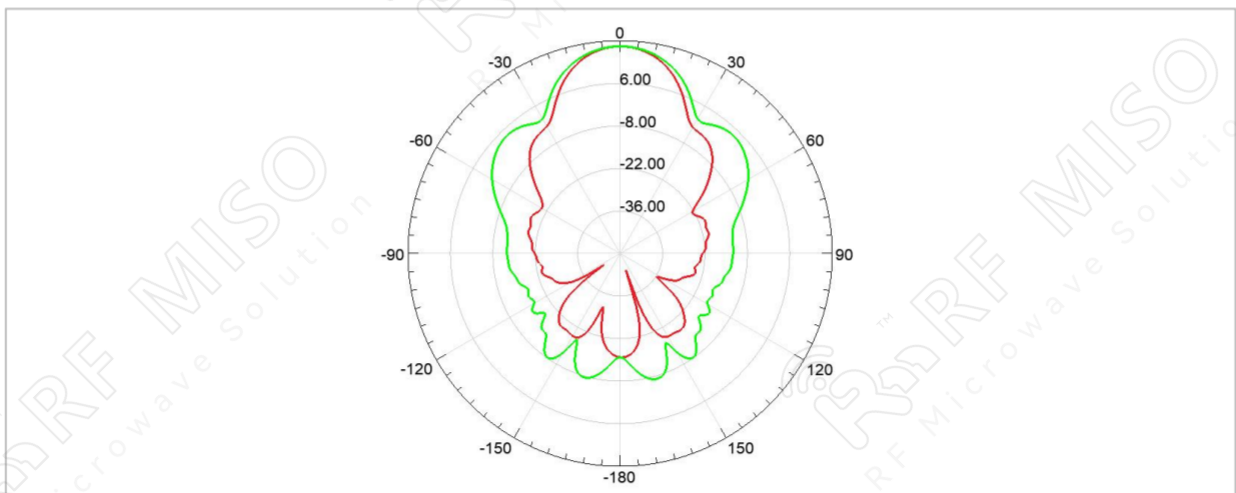
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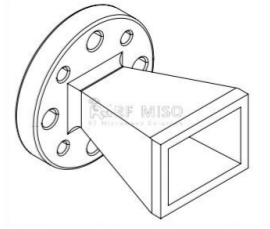
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3dB Beamwidth@76.6GHz: E-Plane 25.28, H-plane 23.00.



3dB Beamwidth@80GHz: E-Plane 25.51, H-plane 21.96.



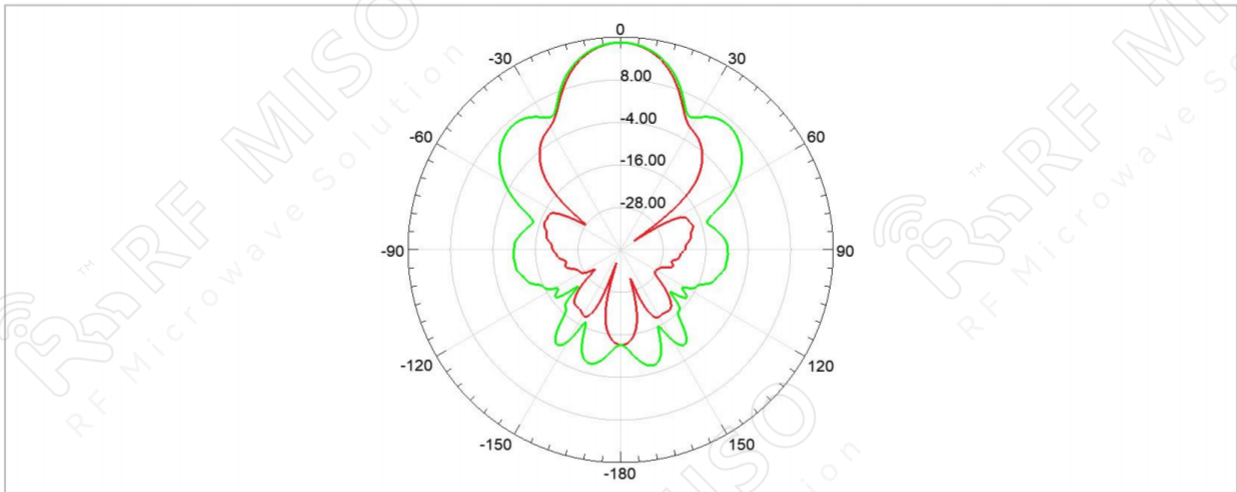


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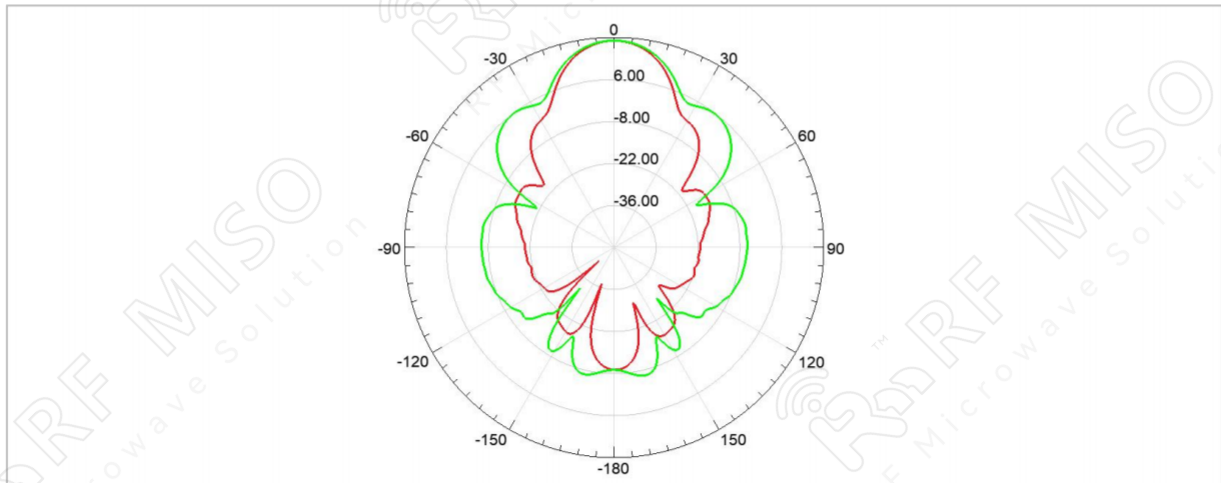
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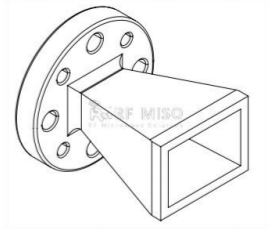
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3dB Beamwidth@83.3GHz: E-Plane 23.29, H-plane 21.55.



3dB Beamwidth@86.6GHz: E-Plane 22.81, H-plane 20.38.





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3dB Beamwidth@90GHz: E-Plane 21.72, H-plane 20.48.

