

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

Standard Gain Horn Antenna Data

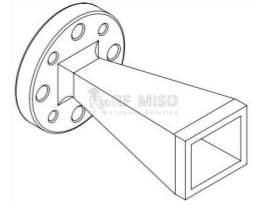
RM-SGHA7-20

Description

RF MISO's **Model RM-SGHA7-20** is a linear polarized standard gain horn antenna that operates from 110 to 170 GHz. The antenna offers a typical gain of 20 dBi and low VSWR <1.2, This antenna has flange input and coaxial input for customers to rotate.

Specifications

RM-SGHA7-20			
Item	Specification		Units
Frequency Range	110-170		GHz
Wave-guide	WR7		
Gain	20 Typ.		dBi
VSWR	<1.2		
Polarization	Linear		
Cross Polarization	62 Typ.		dB
3dB Beamwidth	E-Plane:12.2-18.0	H-Plane:12.2-18.4	deg
Material	Brass		
Size	Ø19.05*31.83(±5)		mm
Weight	0.017		kg

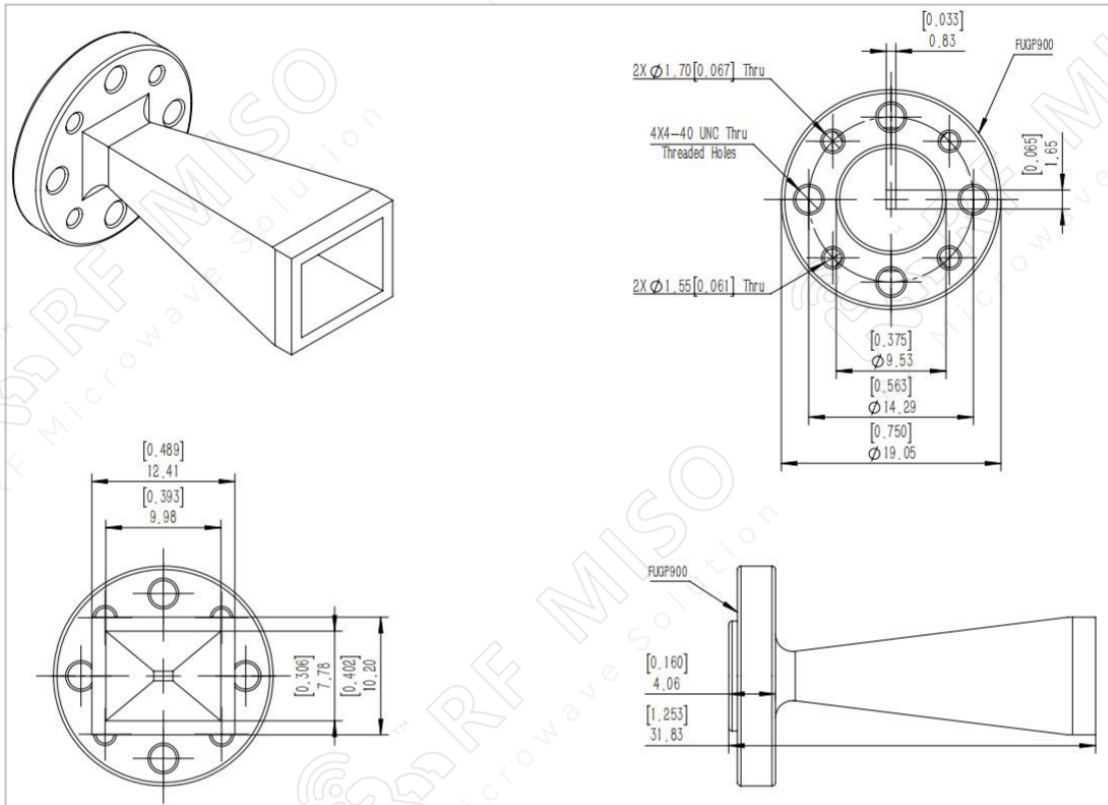


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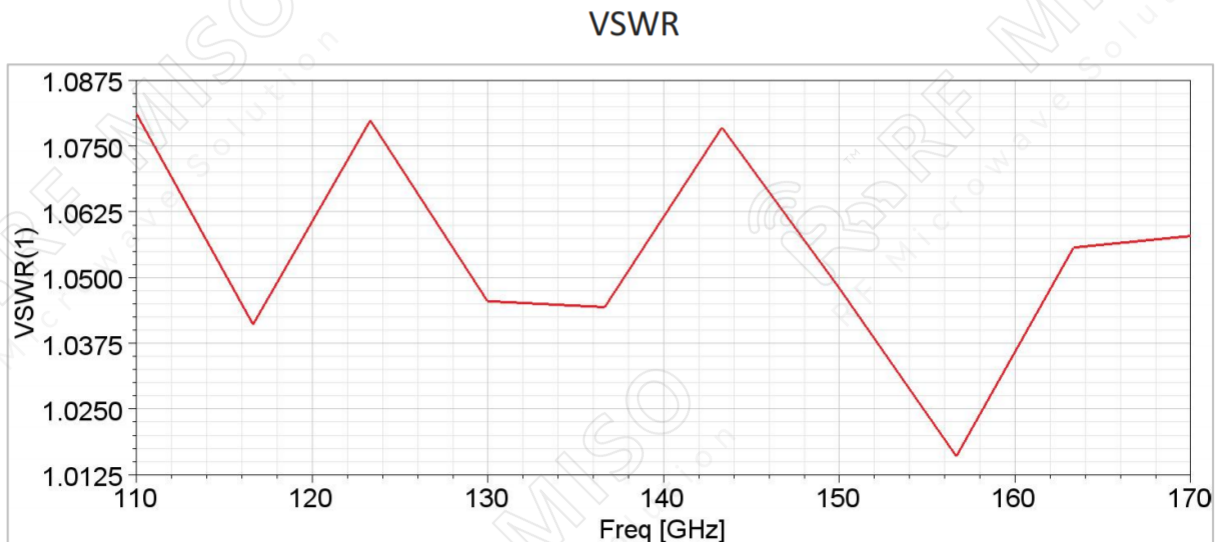
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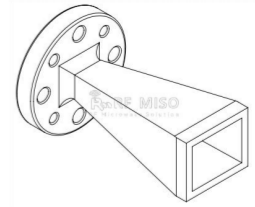
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Outline Drawing



Simulated Data



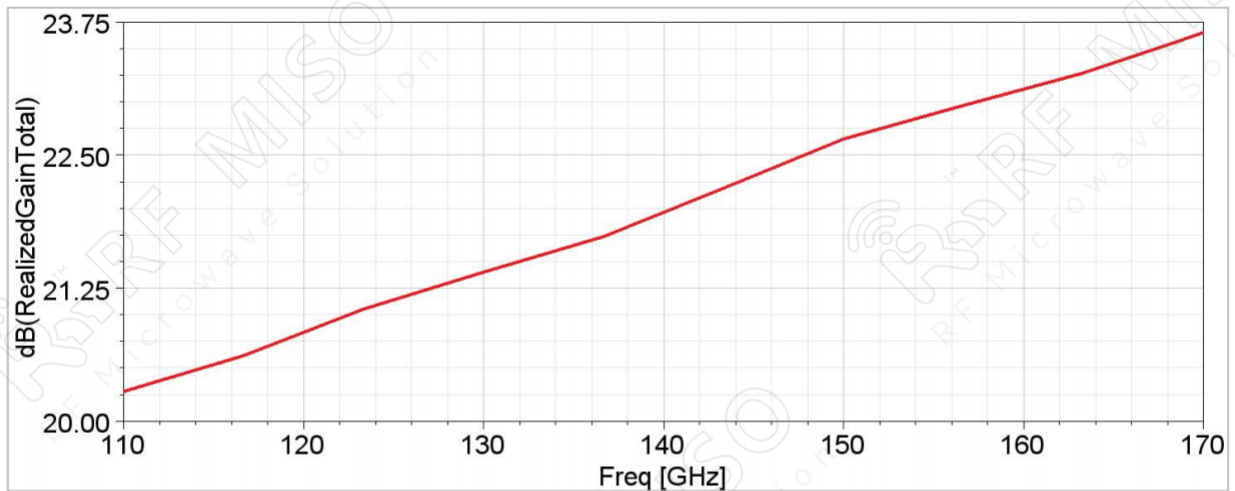


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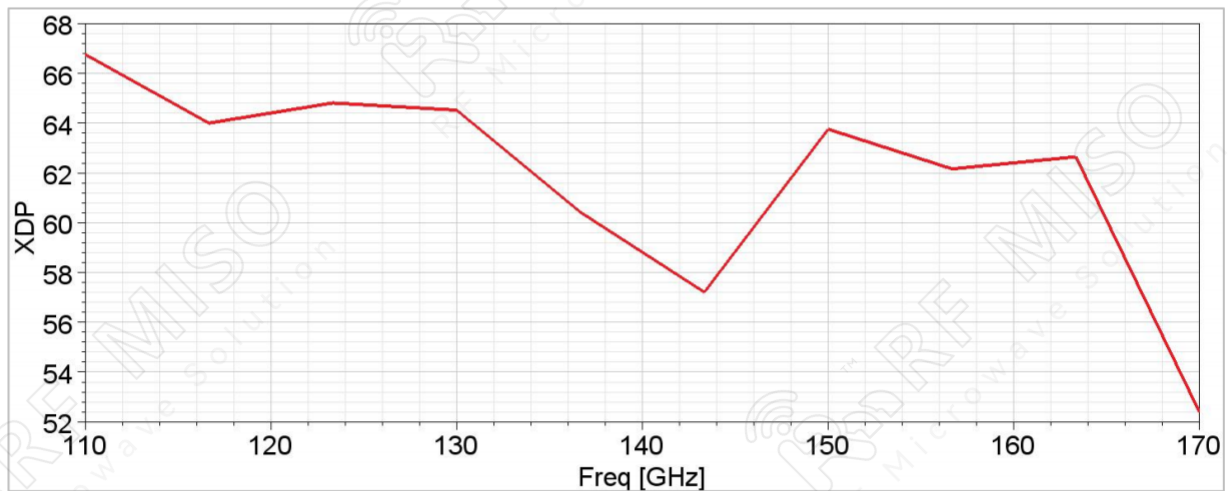
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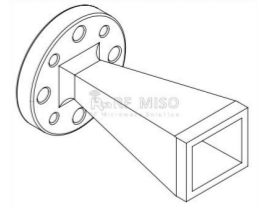
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Gain



Cross Polarization





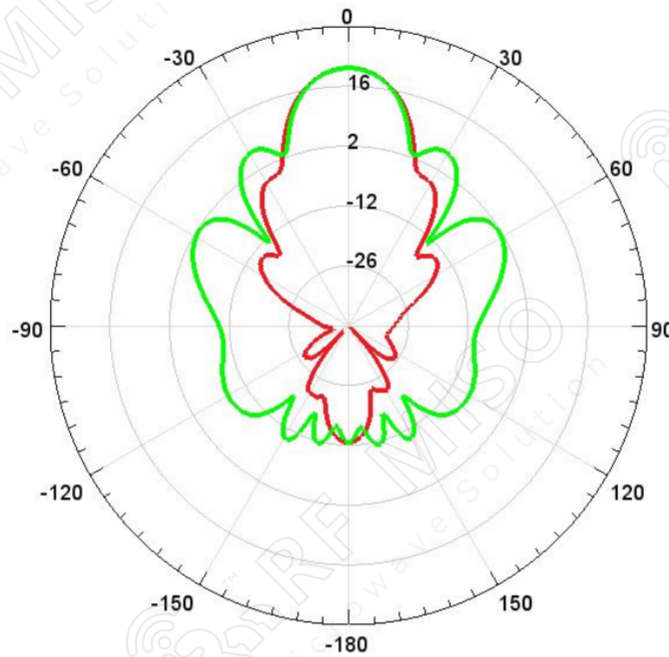
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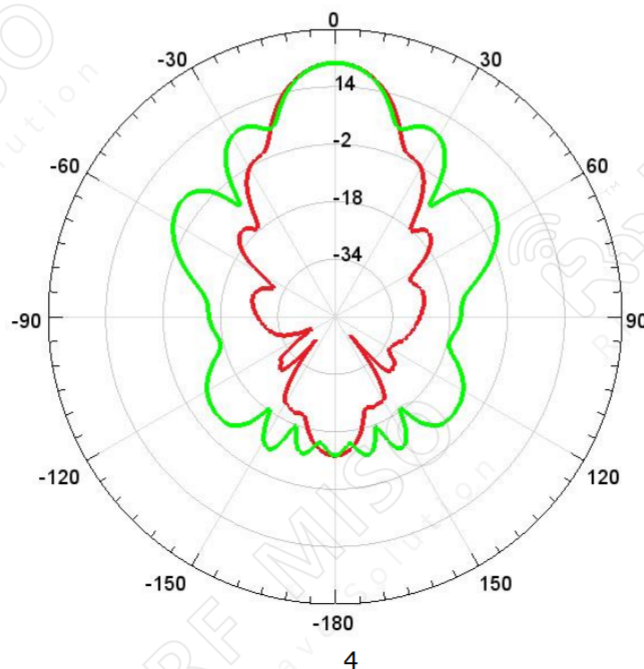
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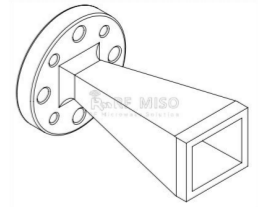
Gain Pattern

3dB Beamwidth@110GHz: E-Plane 17.95, H-plane 18.42.



3dB Beamwidth@116.6GHz: E-Plane 16.75, H-plane 17.53.



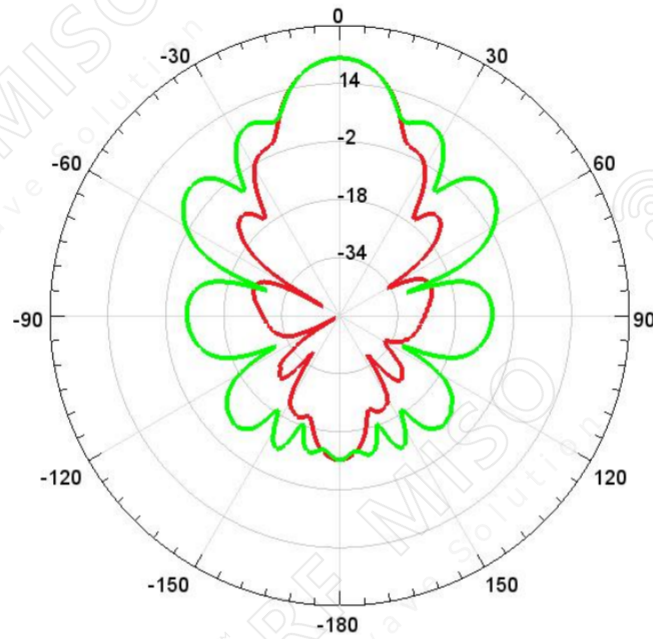


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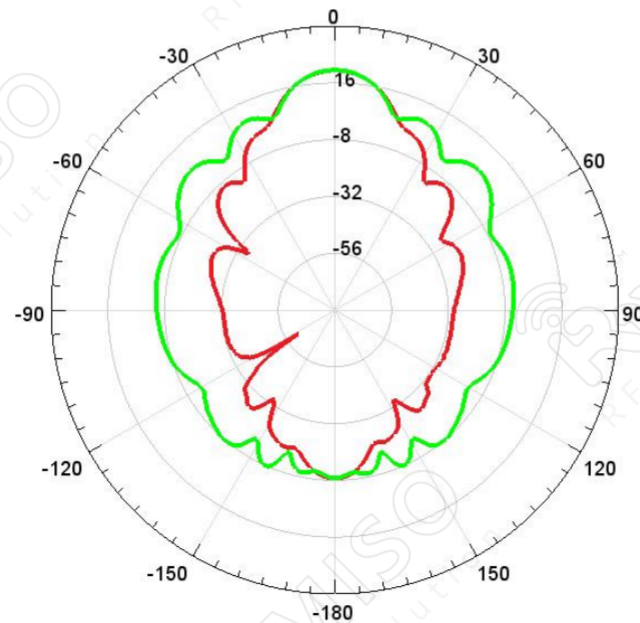
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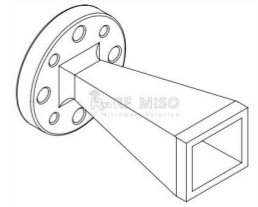
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3dB Beamwidth@123.3GHz: E-Plane 16.43, H-plane 16.47.



3dB Beamwidth@130GHz: E-Plane 15.92, H-plane 15.85.



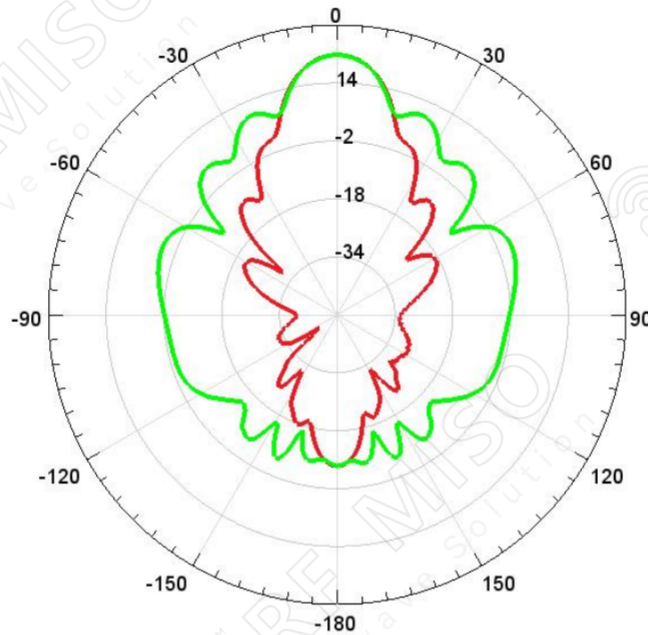


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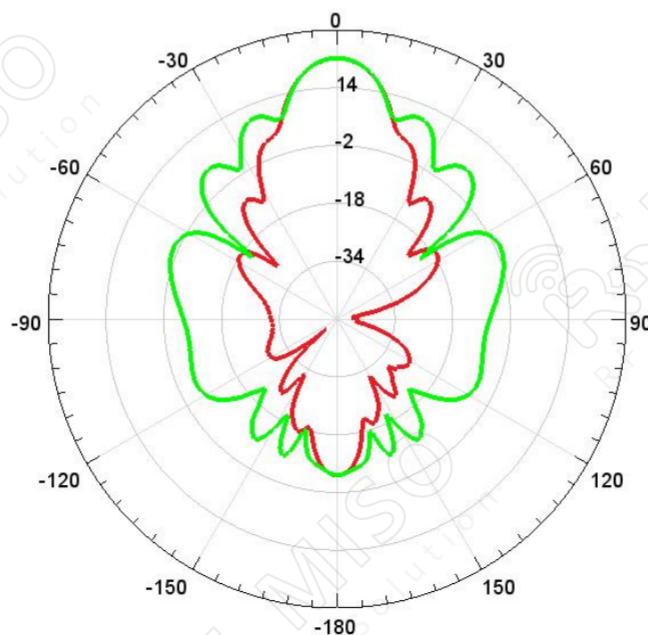
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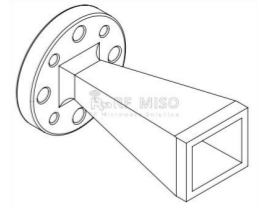
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3dB Beamwidth@136.6GHz: E-Plane 14.93, H-plane 15.12.



3dB Beamwidth@143.3GHz: E-Plane 14.5, H-plane 14.42.



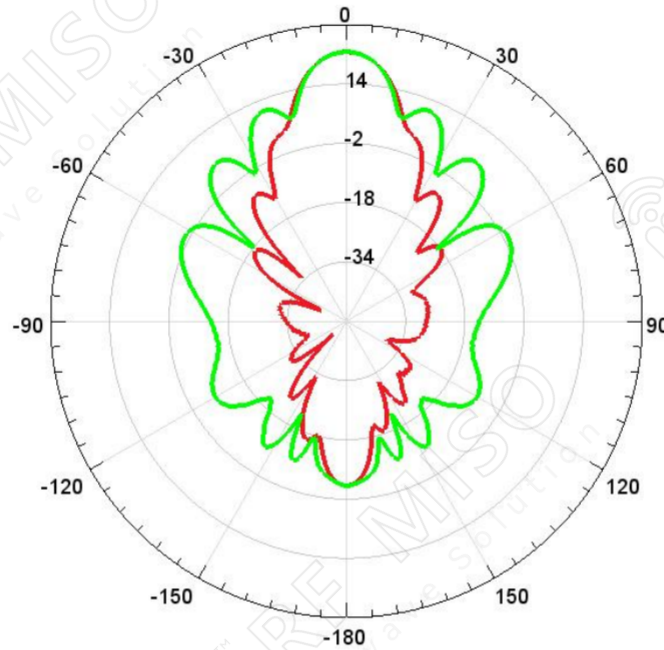


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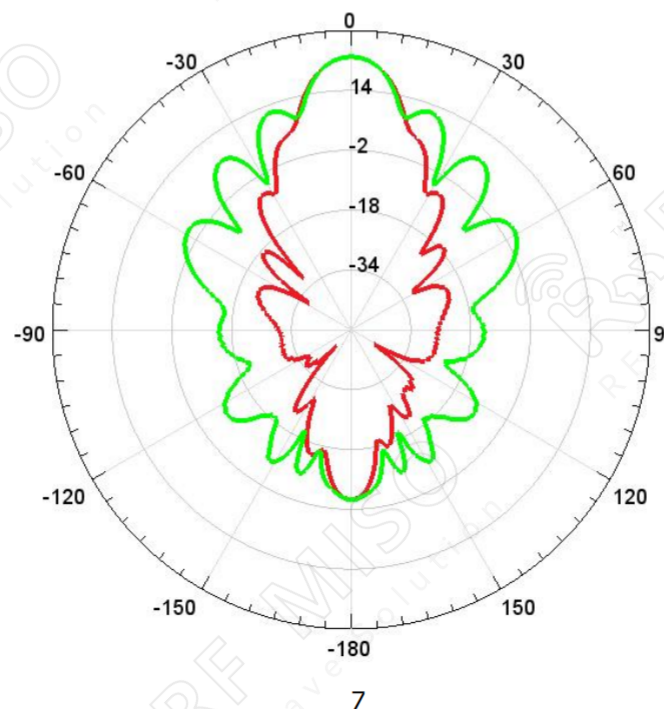
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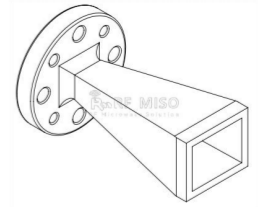
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3dB Beamwidth@150GHz: E-Plane 13.71, H-plane 13.91.



3dB Beamwidth@156.67GHz: E-Plane 13.03, H-plane 13.2.



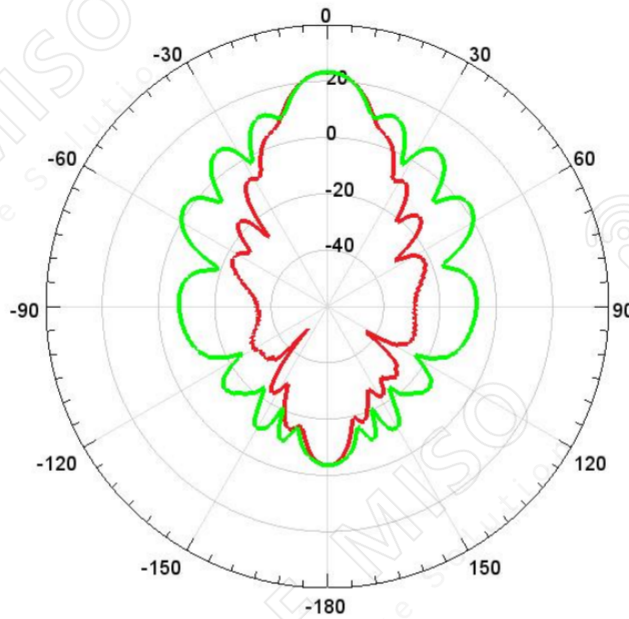


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3dB Beamwidth@163.3GHz: E-Plane 12.62, H-plane 12.89.



3dB Beamwidth@170GHz: E-Plane 12.23, H-plane 12.28.

