

*Standard Gain Horn Antenna
15 dBi Typ. Gain, 220-325GHz Frequency Range*

Standard Gain Horn Antenna Data

RM-SGHA3-15

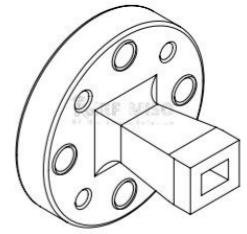
Description

RF MISO's **Model RM-SGHA3-15** is a linear polarized standard gain horn antenna that operates from 220 to 325 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-SGHA3-15			
Item	Specification		Units
Frequency Range	220-325		GHz
Wave-guide	WR3		
Gain	15 Typ.		dBi
VSWR	<1.2		
Polarization	Linear		
Cross Polarization	35 Typ.		dB
3dB Beamwidth	E-Plane:21~33.1	H-Plane:19.4~26.8	deg
Material	Brass		
Size	Ø19.05*14.73(±5)		mm
Weight	0.010		kg

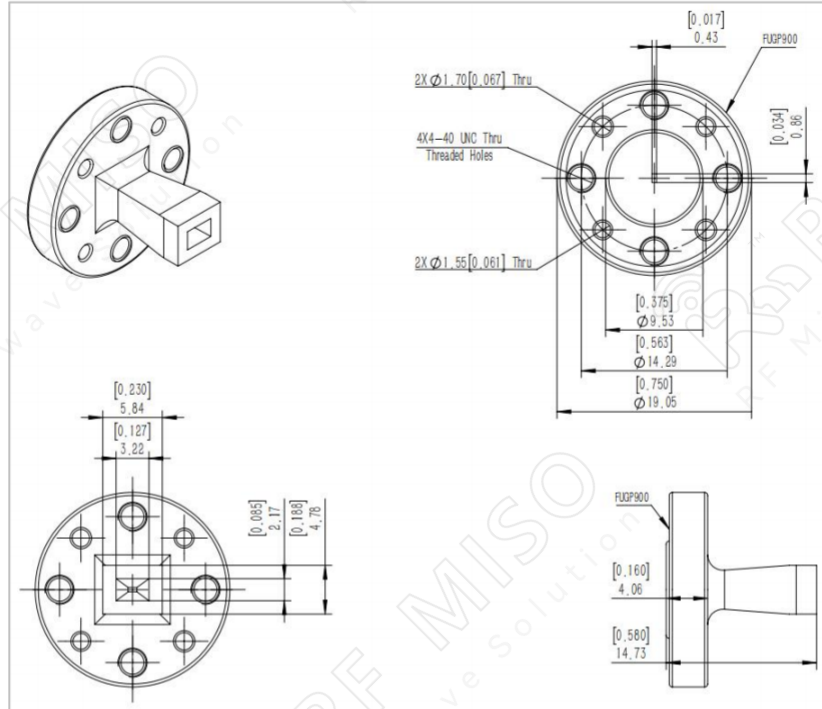
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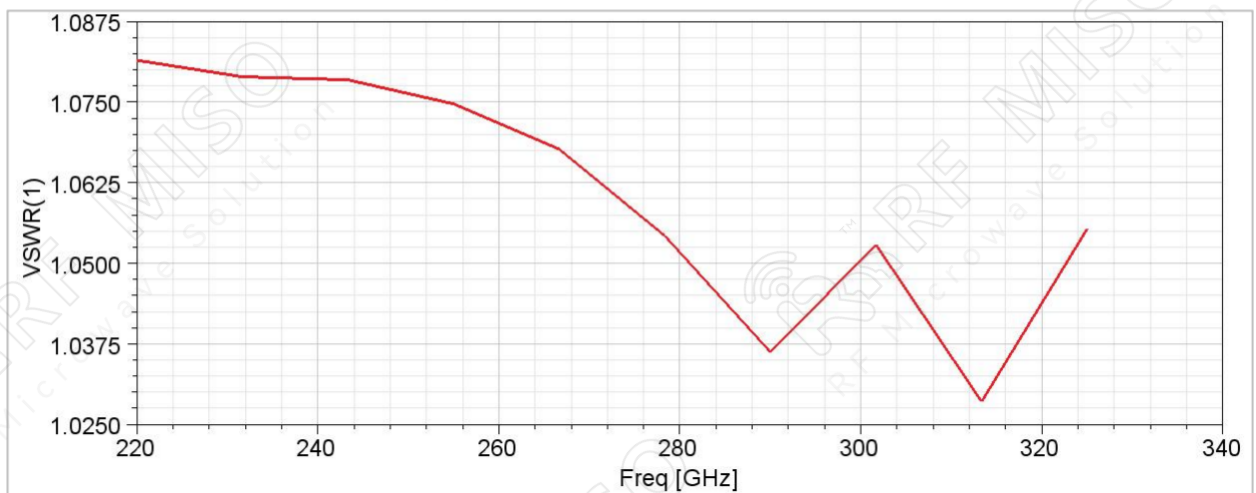
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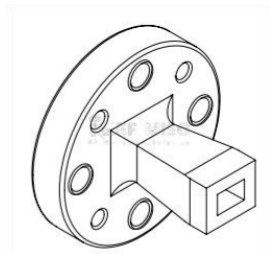
Outline Drawing



Simulated Data

VSWR



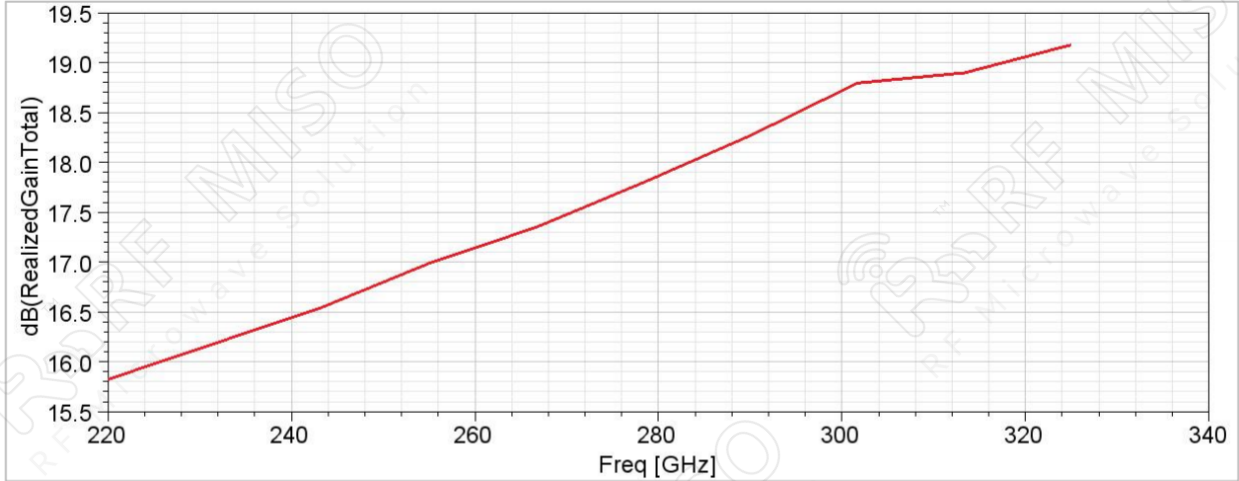


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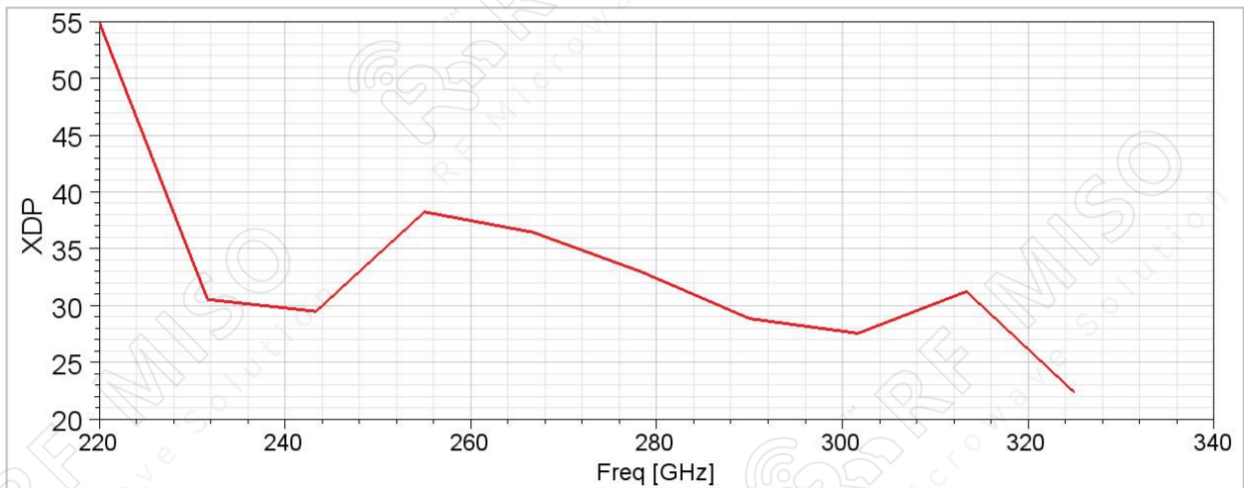
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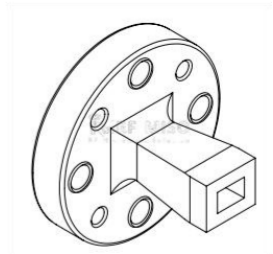
Gain



Cross Polarization



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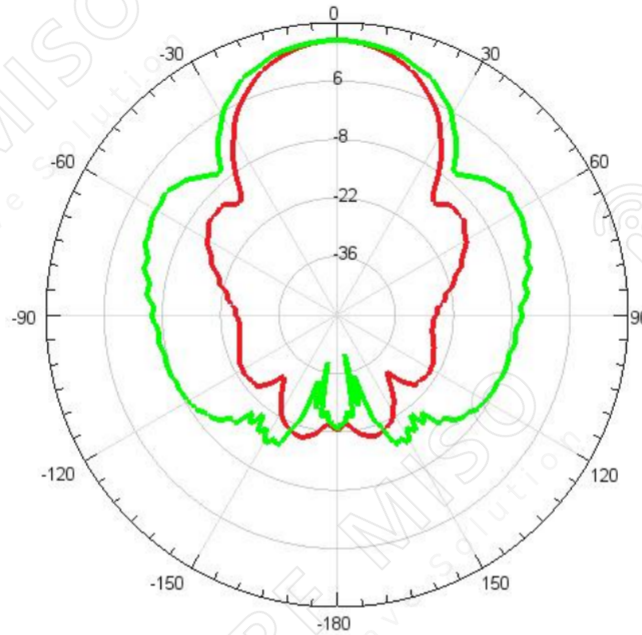


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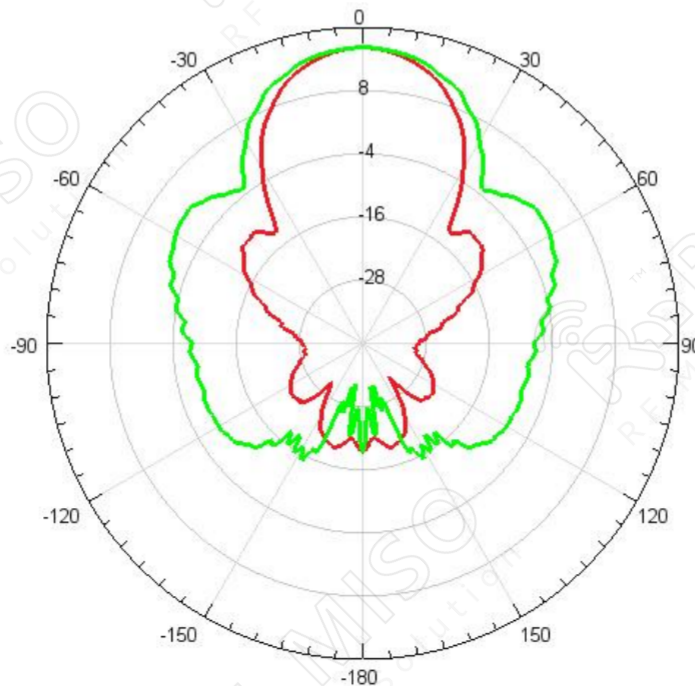
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Gain Pattern

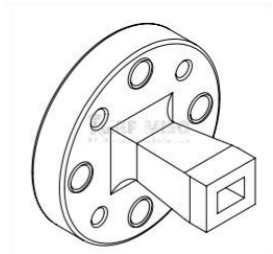
3dB Beamwidth@220GHz: E-Plane 33.12, H-plane 26.81.



3dB Beamwidth@231.7GHz: E-Plane 31.16, H-plane 26.12.



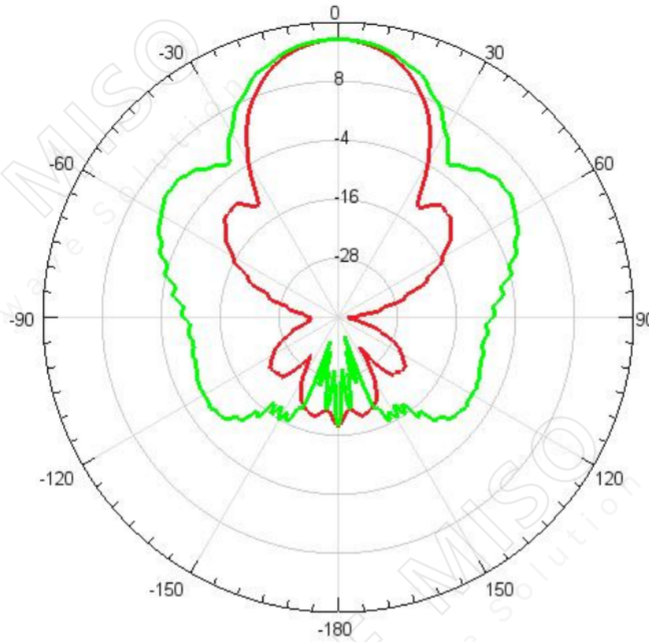
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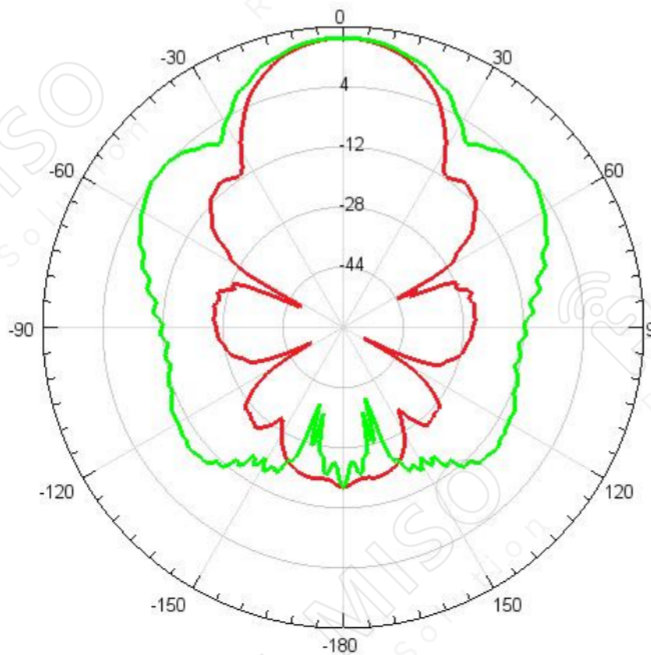
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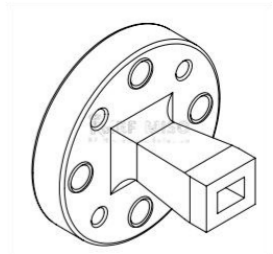
3dB Beamwidth@243.3GHz: E-Plane 29.25, H-plane 25.56.



3dB Beamwidth@255GHz: E-Plane 27.63, H-plane 24.51.



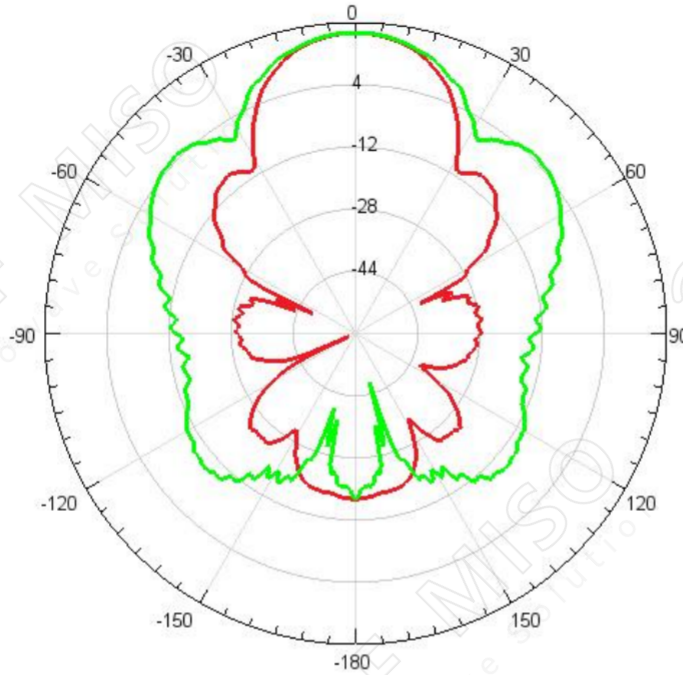
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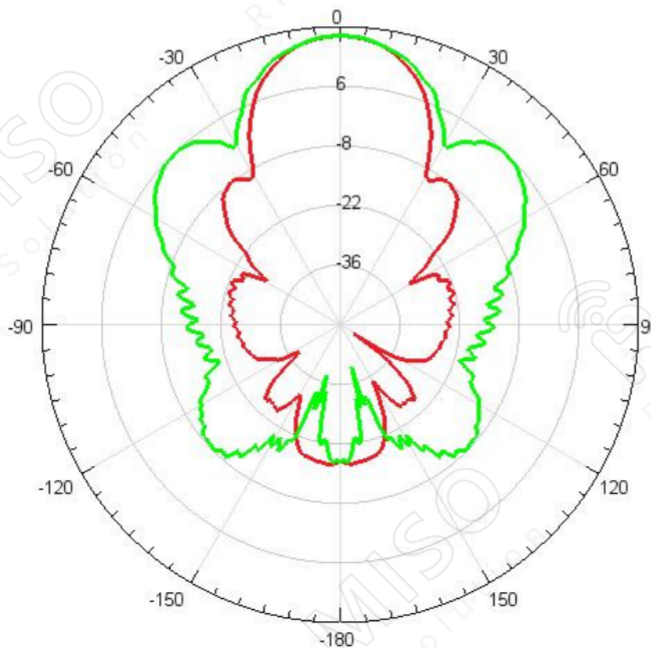
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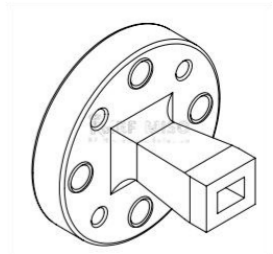
3dB Beamwidth@266.7GHz: E-Plane 26.32, H-plane 23.86.



3dB Beamwidth@278.3GHz: E-Plane 25.14, H-plane 22.70.



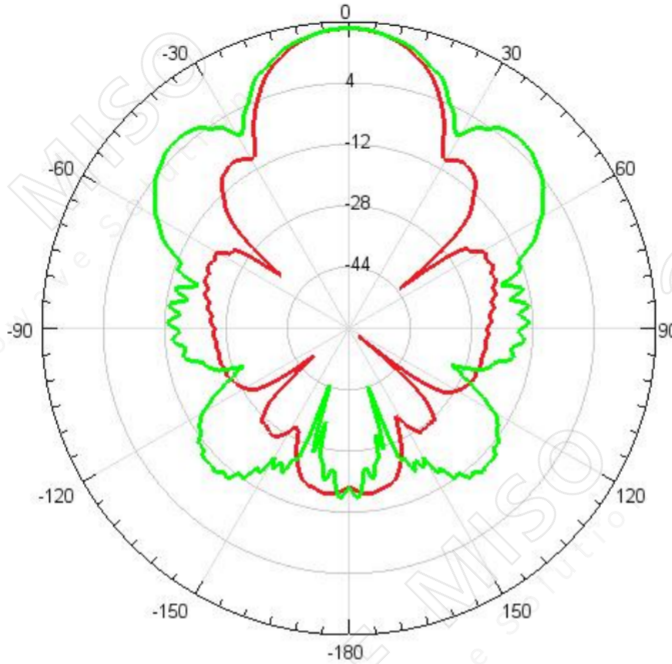
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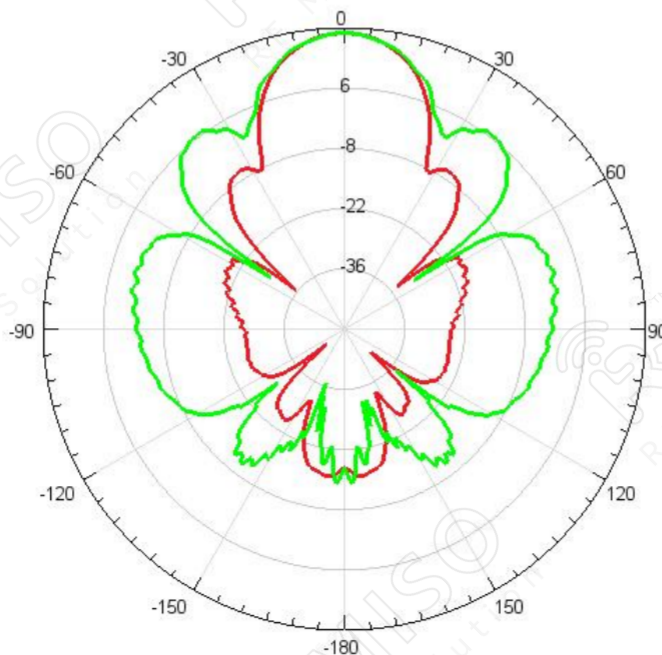
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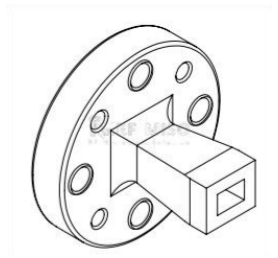
3dB Beamwidth@290GHz: E-Plane 24.06, H-plane 21.47.



3dB Beamwidth@301.7GHz: E-Plane 21.96, H-plane 20.42.



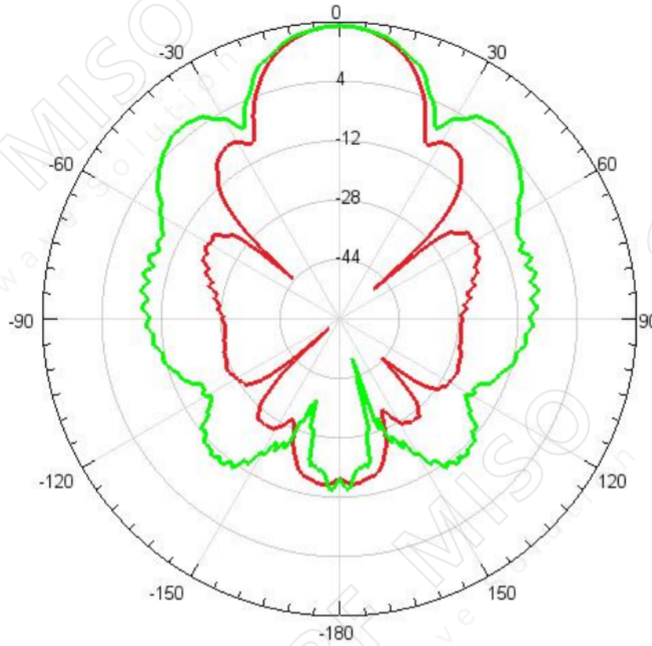
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3dB Beamwidth@313.3GHz: E-Plane 22.46, H-plane 19.90.



3dB Beamwidth@325GHz: E-Plane 21.02, H-plane 19.45.

