

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

Standard Gain Horn Antenna Data

RM-SGHA12-10

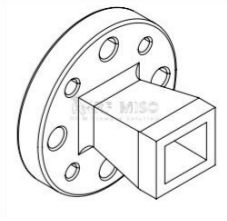
Description

RF MISO's **Model RM-SGHA12-10** is a linear polarized standard gain horn antenna that operates from 60 to 90 GHz. The antenna offers a typical gain of 10 dBi and low VSWR <1.3, This antenna has flange input and coaxial input for customers to rotate.

Specifications

RM-SGHA12-10			
Item	Specification		Units
Frequency Range	60-90		GHz
Wave-guide	WR12		
Gain	10 Typ.		dBi
VSWR	<1.3		
Polarization	Linear		
Cross Polarization	50 Typ.		dB
3dB Beamwidth	E-Plane:38.3-51.1	H-Plane:35.3-49.9	deg
Material	Brass		
Size	Ø19.05*14.73(±5)		mm
Weight	0.012		kg

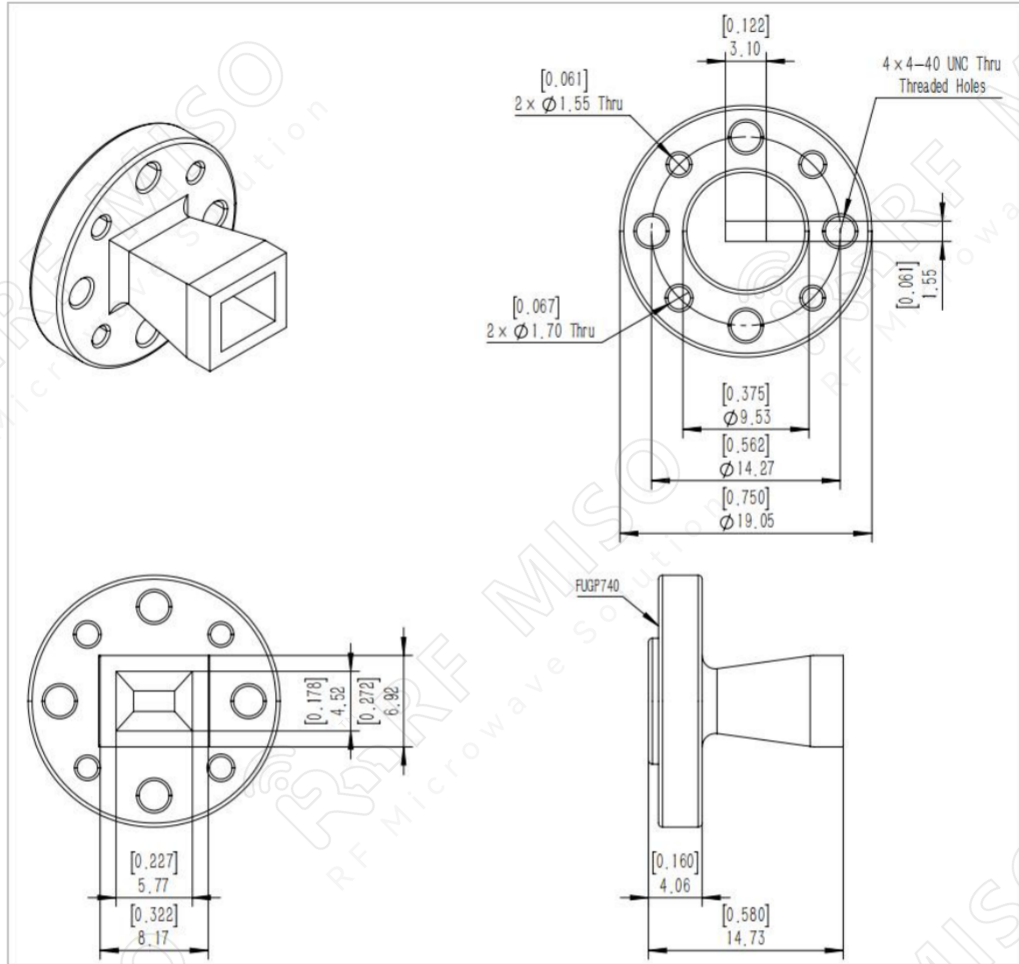
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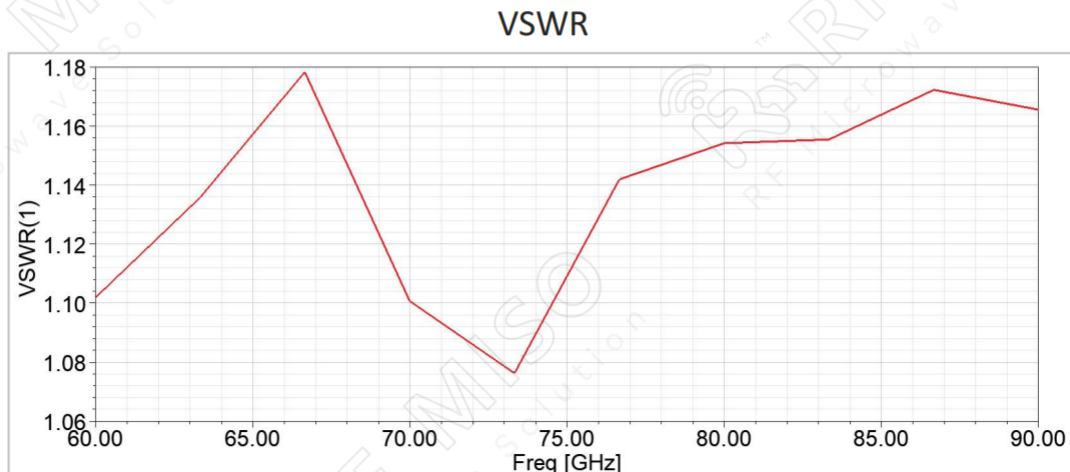
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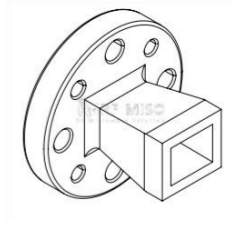
Outline Drawing



Simulated Data



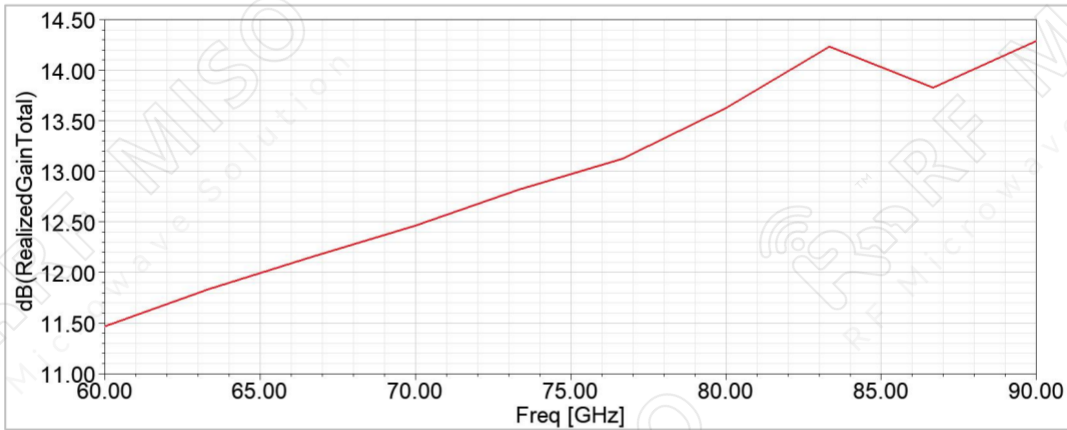
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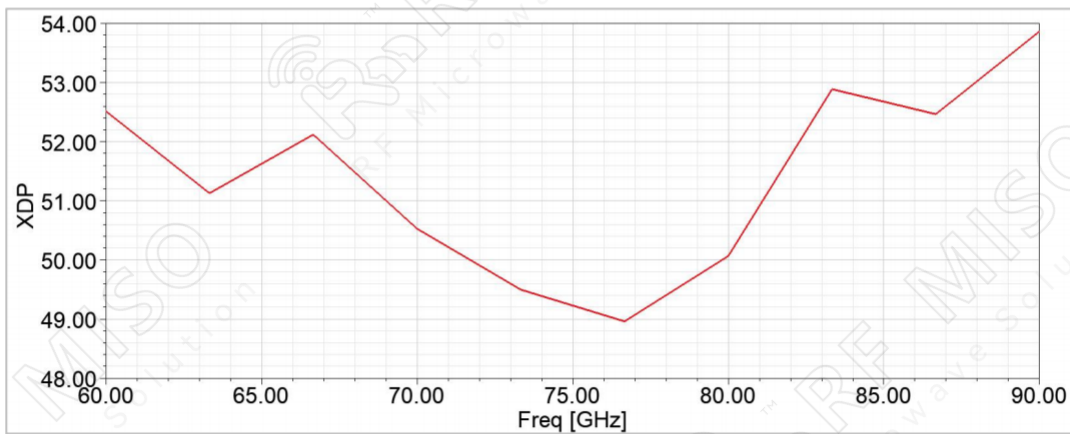
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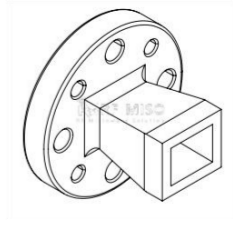
Gain



Cross Polarization



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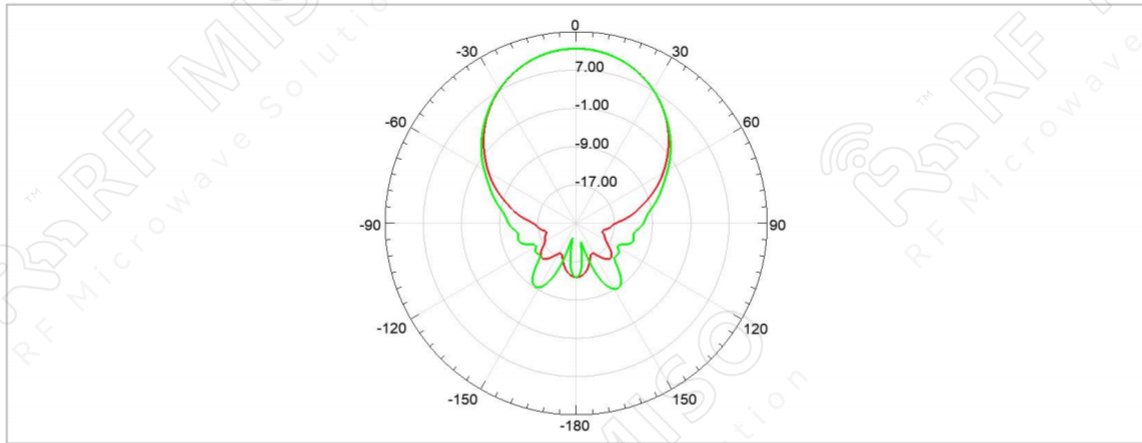


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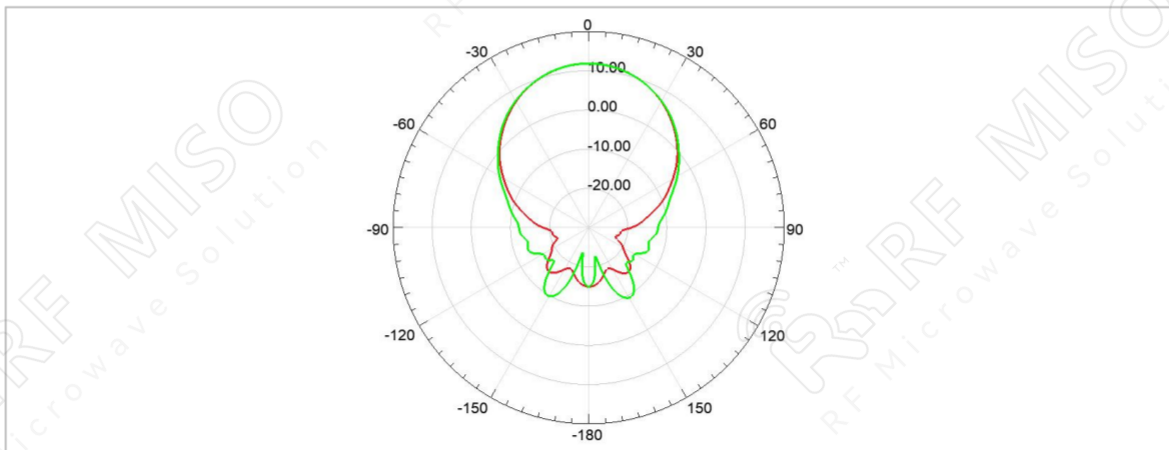
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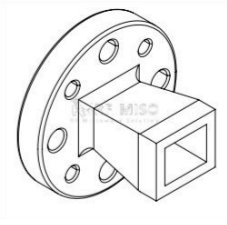
Gain Pattern

3dB Beamwidth@60GHz: E-Plane 50.18, H-plane 49.94.



3dB Beamwidth@63.3GHz: E-Plane 48.07, H-plane 47.64.

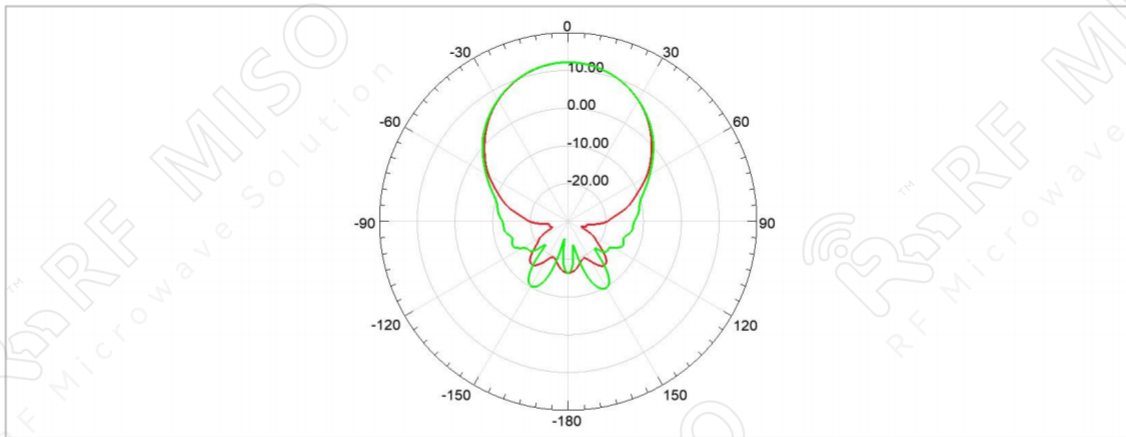




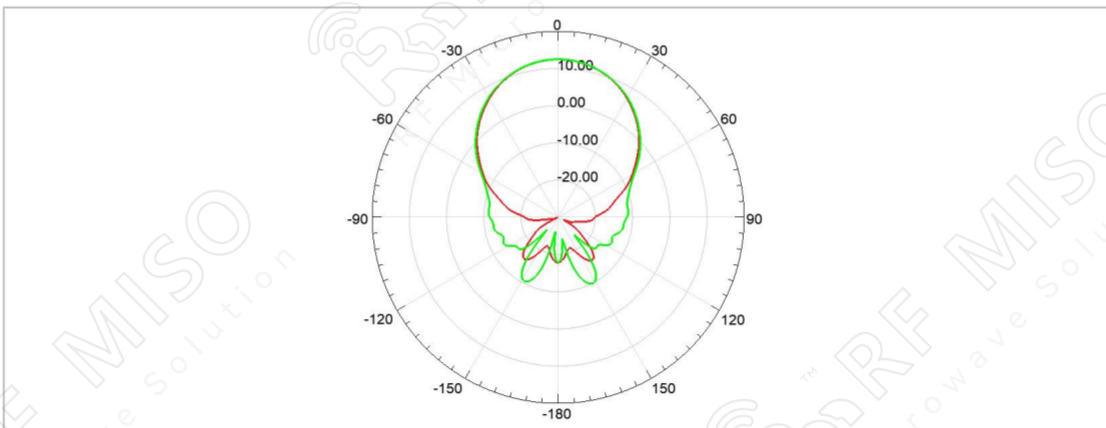
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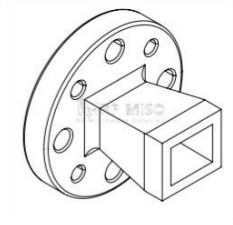
3dB Beamwidth@66.6GHz: E-Plane 46.09, H-plane 45.73.



3dB Beamwidth@70GHz: E-Plane 45.15, H-plane 43.96.



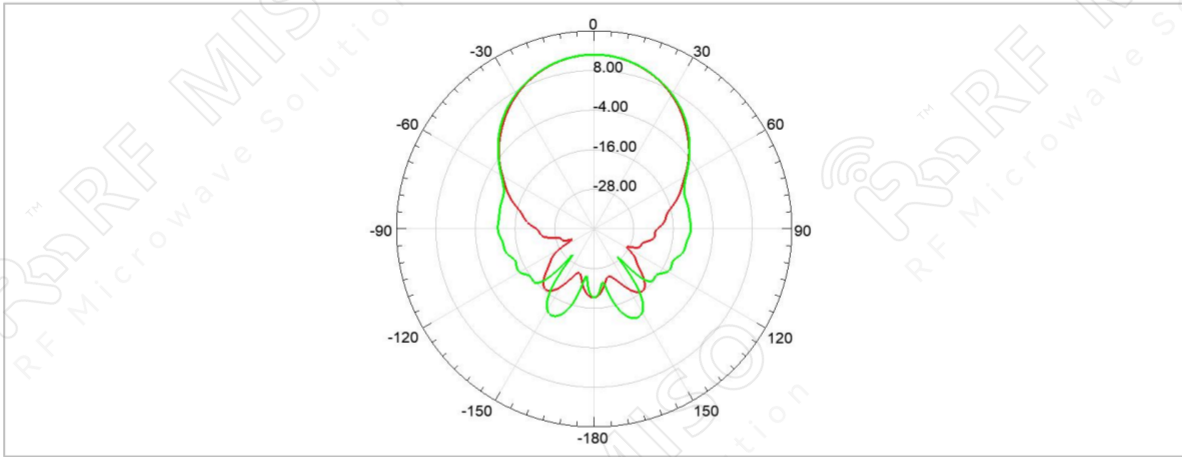
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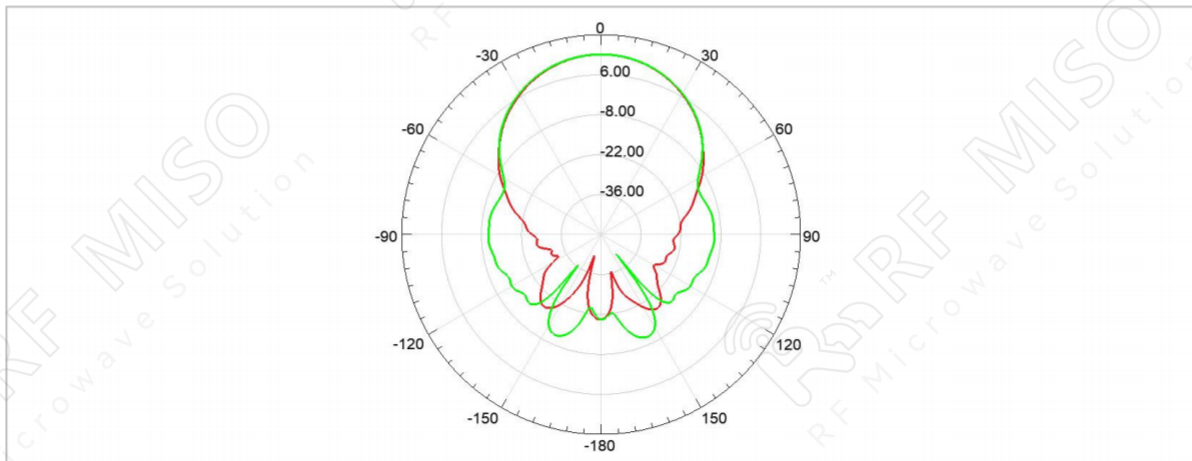
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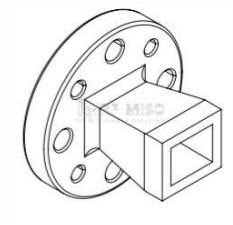
3dB Beamwidth@73.3GHz: E-Plane 43.24, H-plane 42.09.



3dB Beamwidth@76.6GHz: E-Plane 42.45, H-plane 40.92.



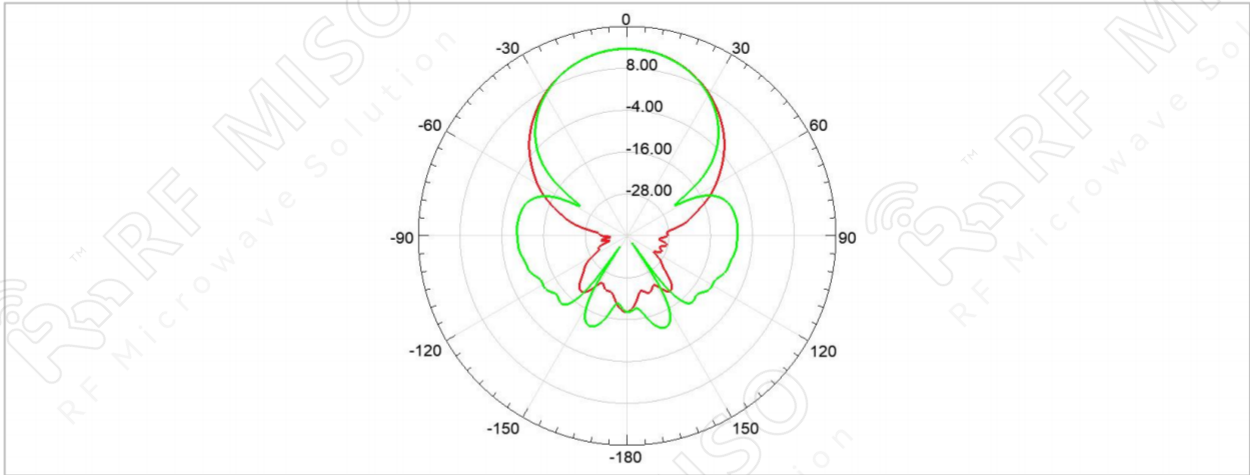
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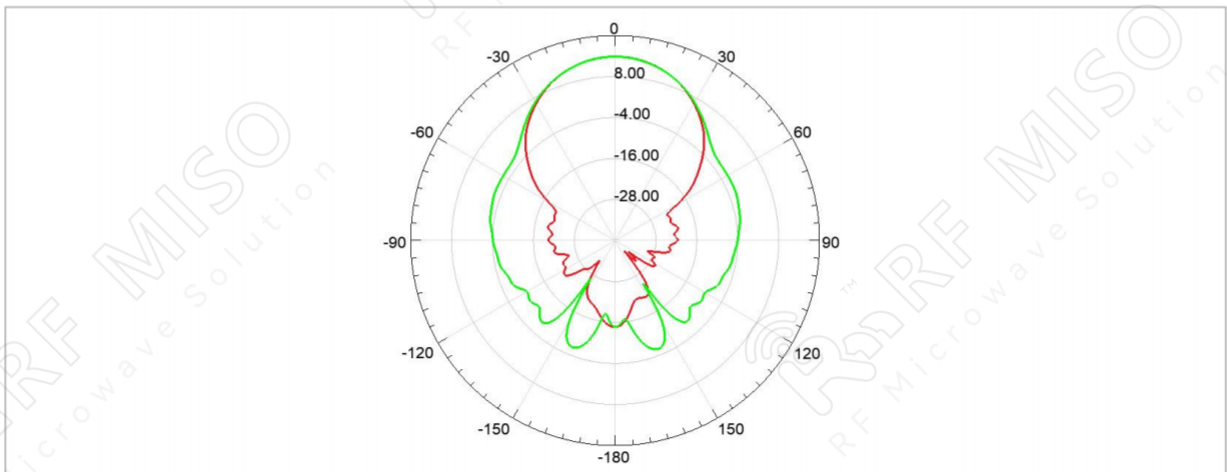
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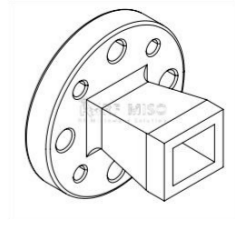
3dB Beamwidth@80GHz: E-Plane 39.72, H-plane 40.24.



3dB Beamwidth@86.6GHz: E-Plane 38.24, H-plane 38.08.



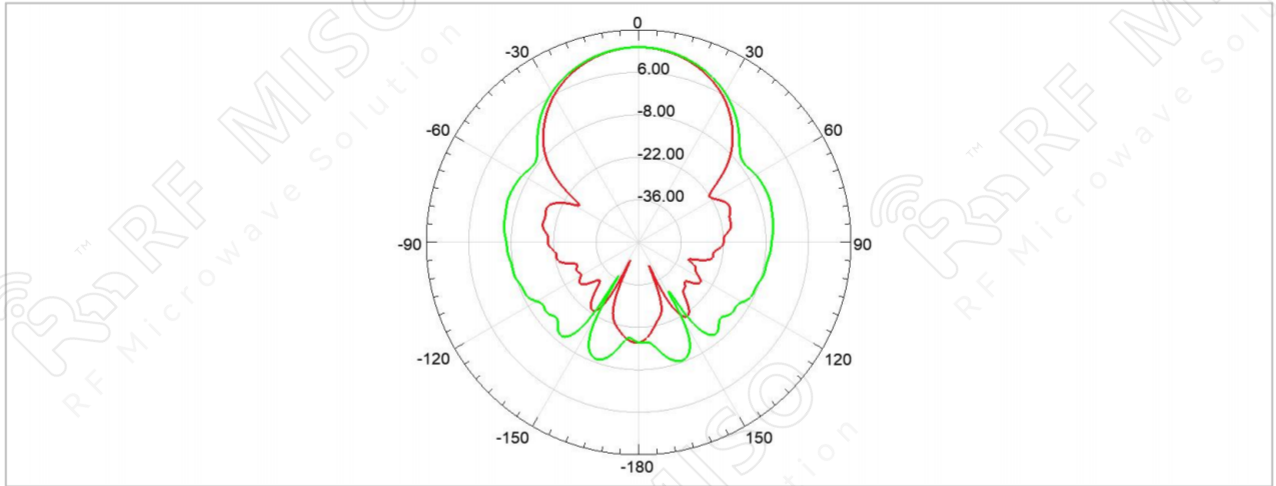
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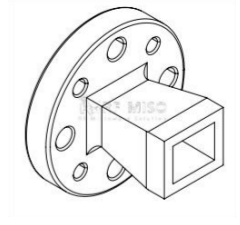
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3dB Beamwidth@90GHz: E-Plane 38.36, H-plane 35.31.



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