

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

Standard Gain Horn Antenna Data

RM-SGHA12-20

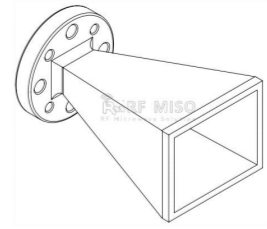
Description

RF MISO's **Model RM-SGHA12-20** is a linear polarized standard gain horn antenna that operates from 60 to 90 GHz. The antenna offers a typical gain of 20 dBi and low VSWR <1.3, This antenna has flange input and coaxial input for customers to rotate.

Specifications

| RM-SGHA12-20 | | | |
|--------------------|--------------------|--------------------|-------|
| Item | Specification | | Units |
| Frequency Range | 60-90 | | GHz |
| Wave-guide | WR12 | | |
| Gain | 20 Typ. | | dBi |
| VSWR | <1.3 | | |
| Polarization | Linear | | |
| Cross Polarization | 60 Typ. | | dB |
| 3dB Beamwidth | E-Plane: 12.4-17.2 | H-Plane: 13.1-18.6 | deg |
| Material | Brass | | |
| Size | Ø19.05*36.33(±5) | | mm |
| Weight | 0.027 | | kg |

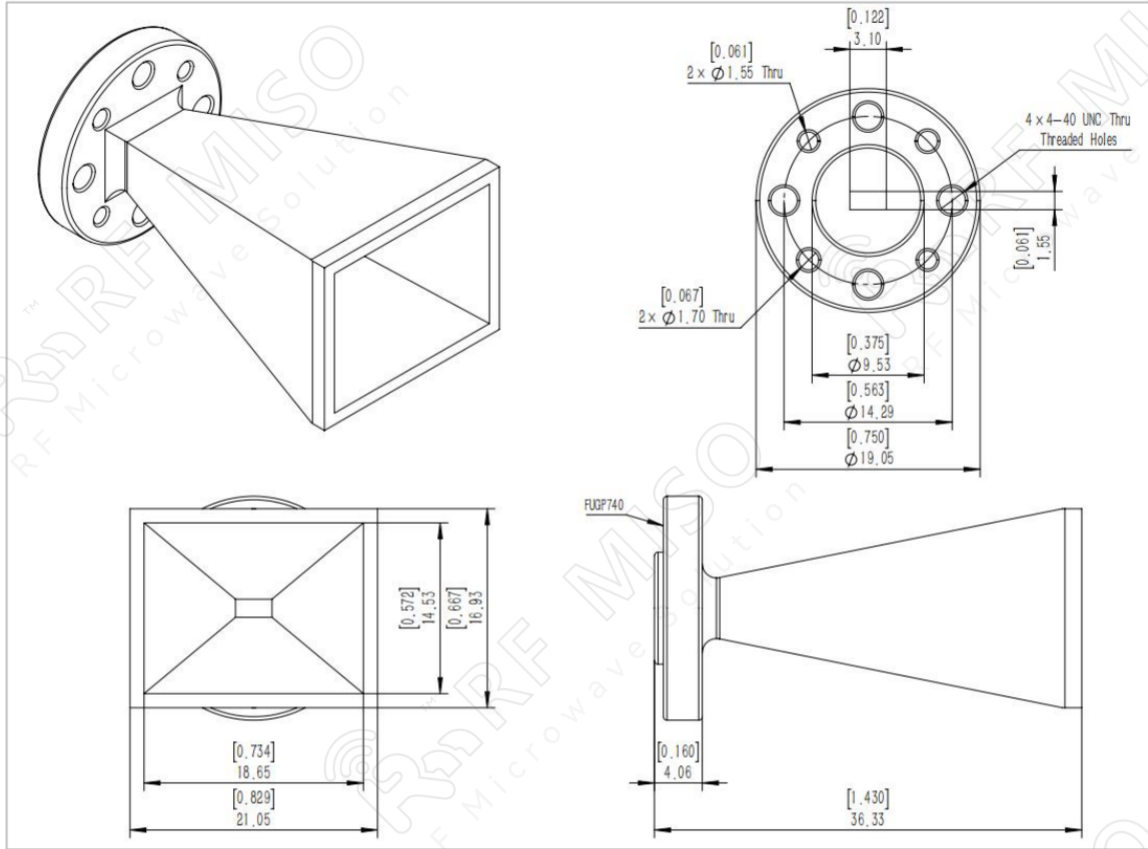
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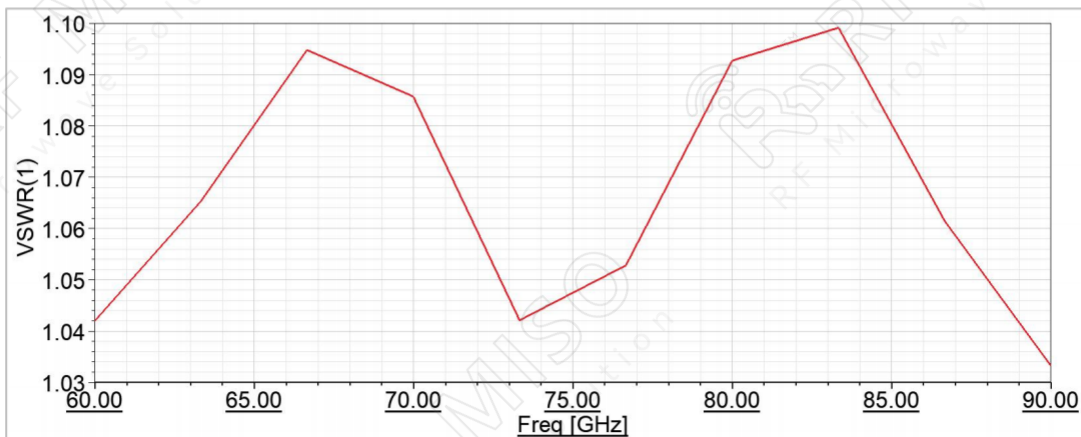
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Outline Drawing

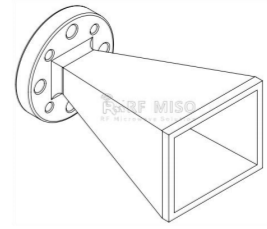


Simulated Data

VSWR



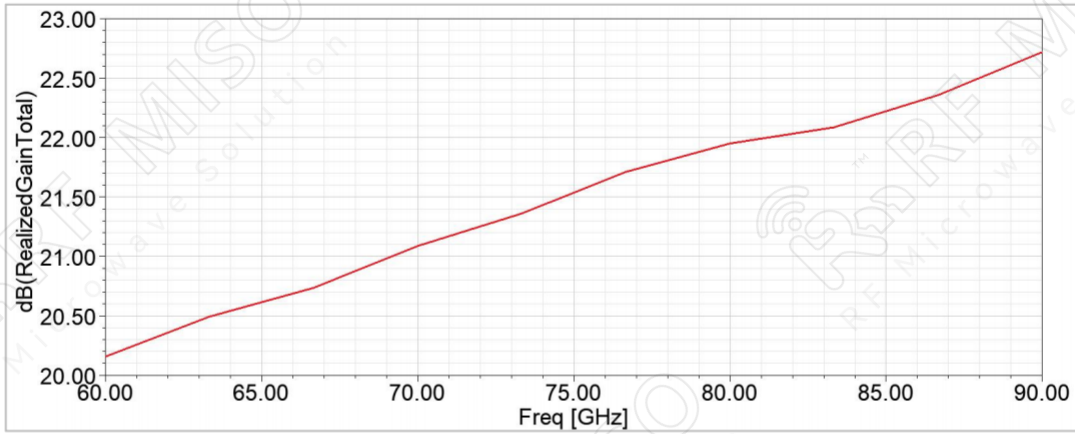
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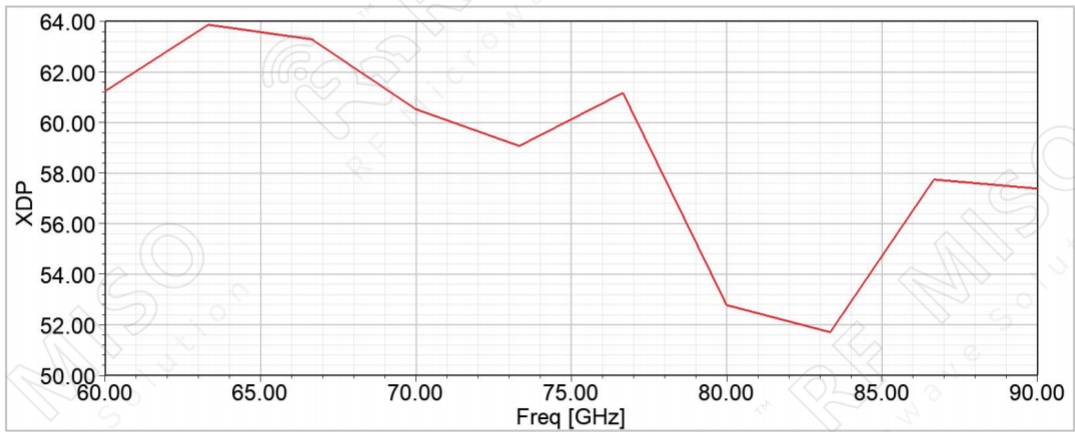
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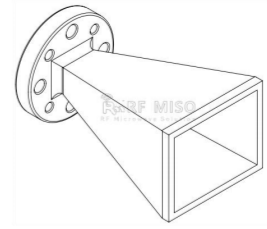
Gain



Cross Polarization



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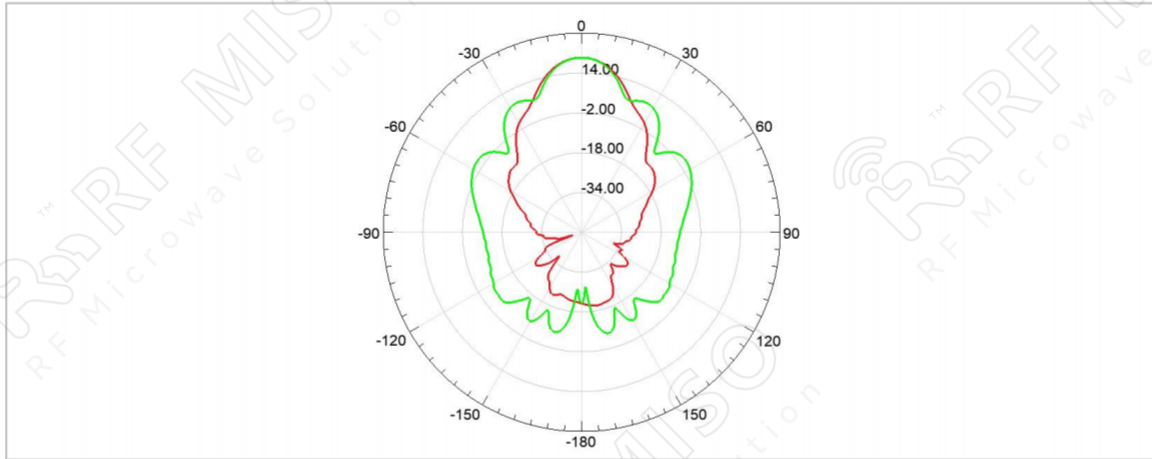


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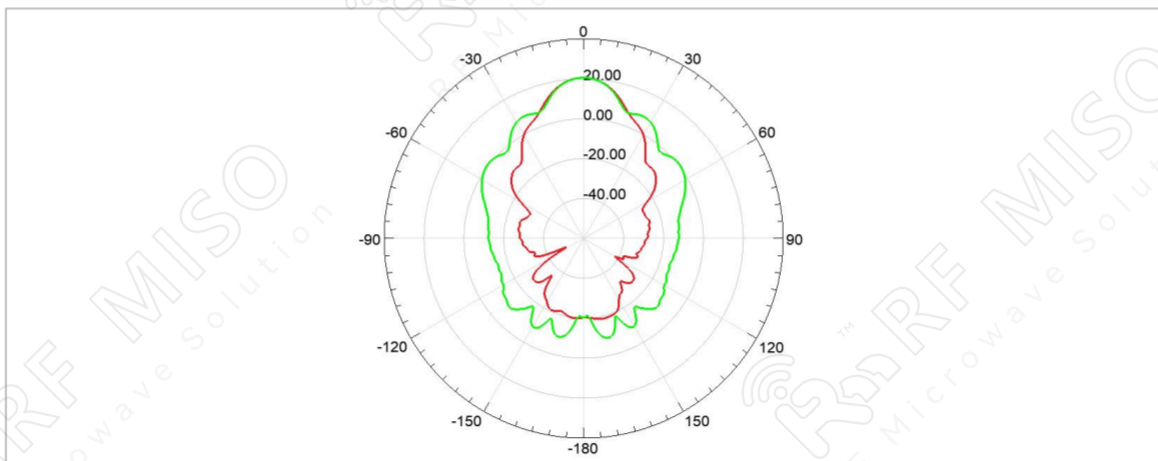
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Gain Pattern

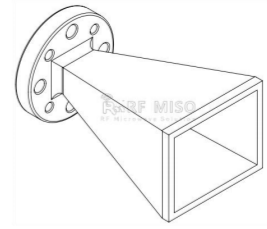
3dB Beamwidth@60GHz: E-Plane 17.23, H-plane 18.61.



3dB Beamwidth@63.3GHz: E-Plane 16.93, H-plane 17.64.



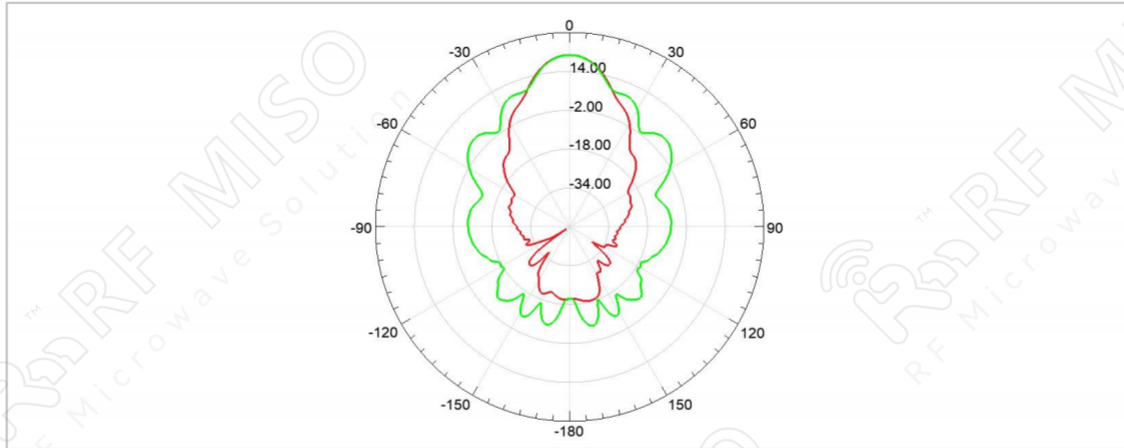
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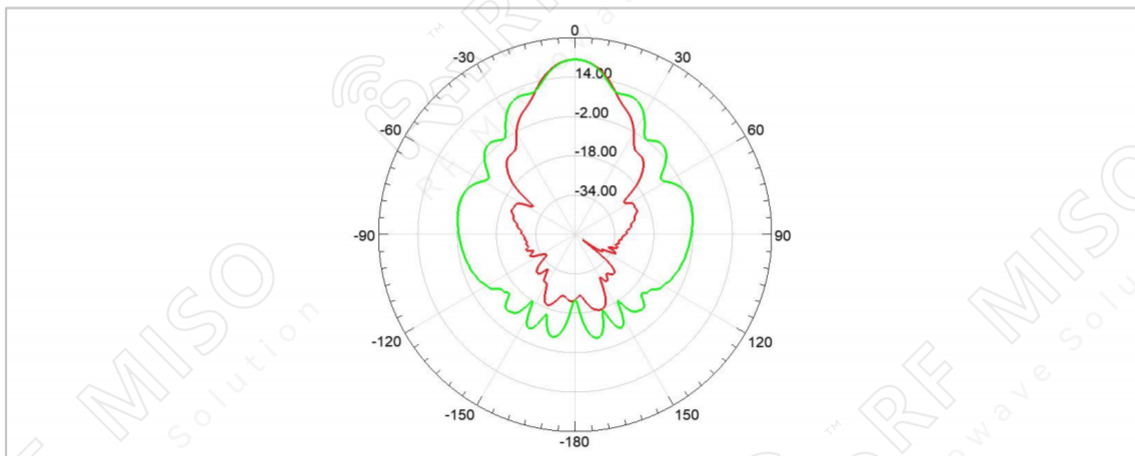
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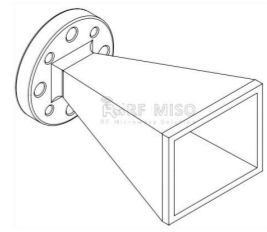
3dB Beamwidth@66.6GHz: E-Plane 16.31, H-plane 16.96.



3dB Beamwidth@70GHz: E-Plane 15.27, H-plane 16.22.



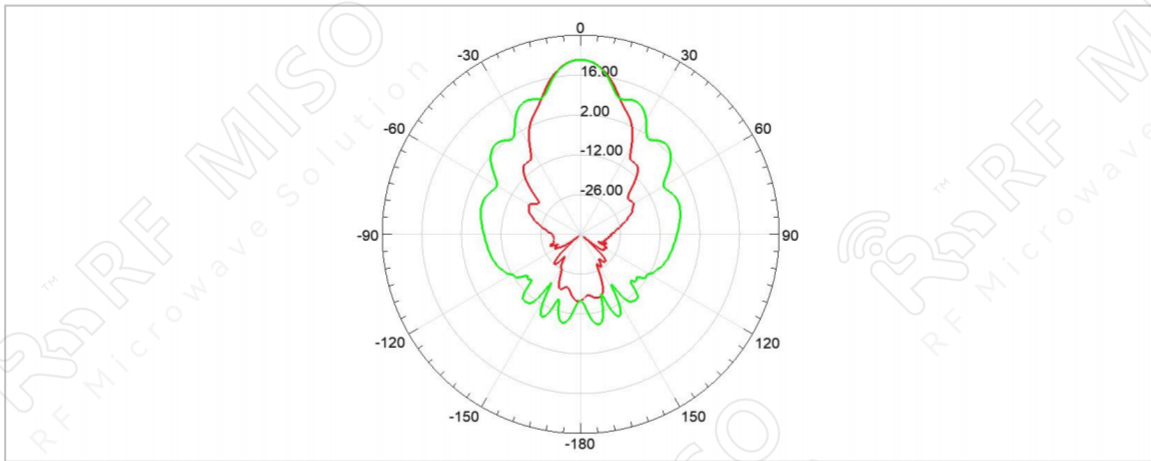
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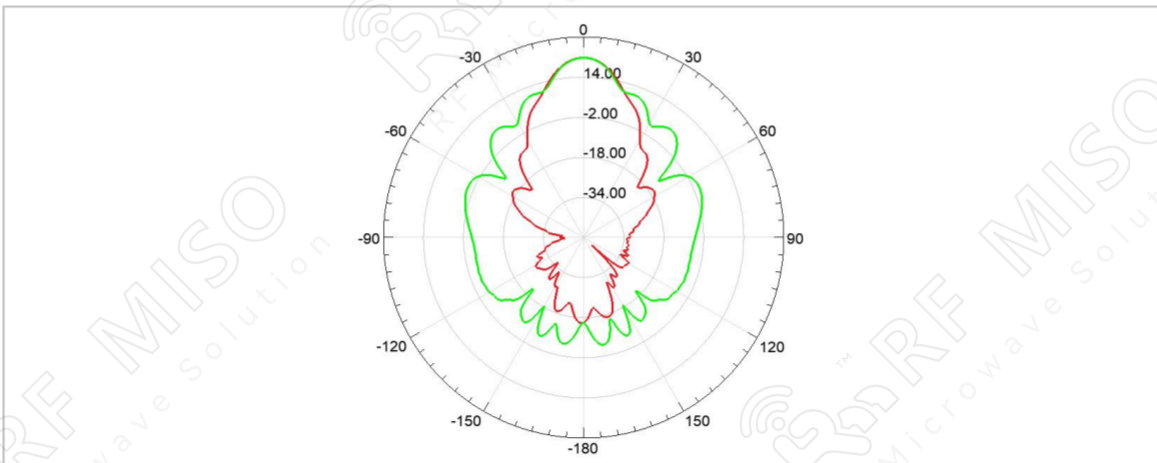
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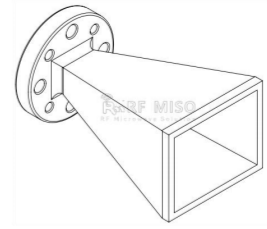
3dB Beamwidth@73.3GHz: E-Plane 14.83, H-plane 15.7.



3dB Beamwidth@76.6GHz: E-Plane 14.26, H-plane 15.14.



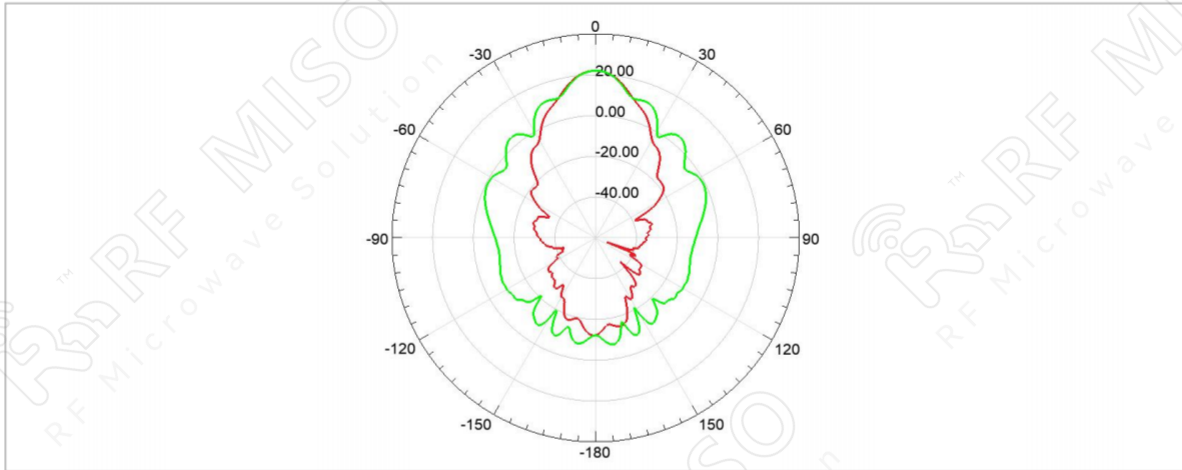
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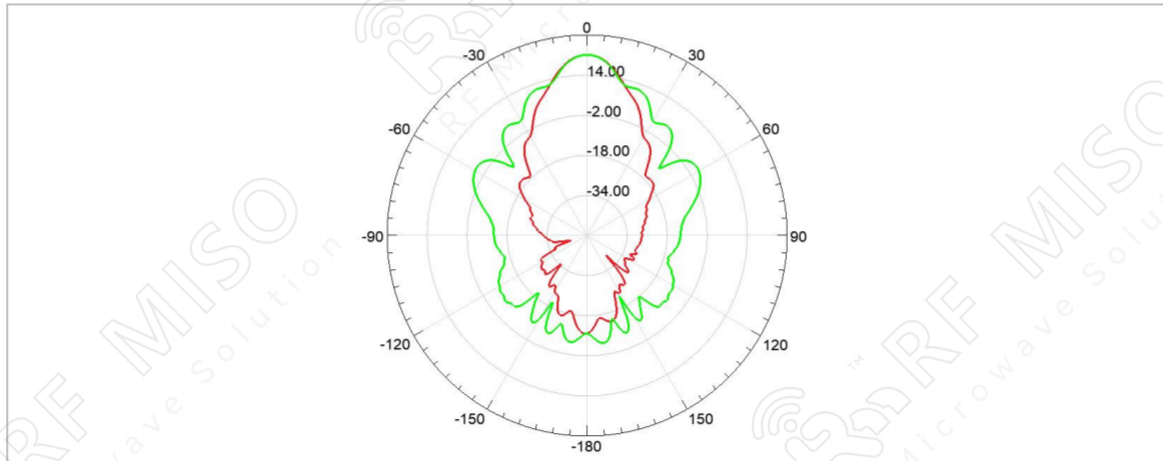
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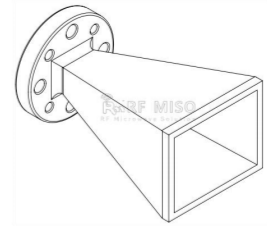
3dB Beamwidth@80GHz: E-Plane 13.96, H-plane 14.68.



3dB Beamwidth@83.3GHz: E-Plane 13.61, H-plane 14.31.



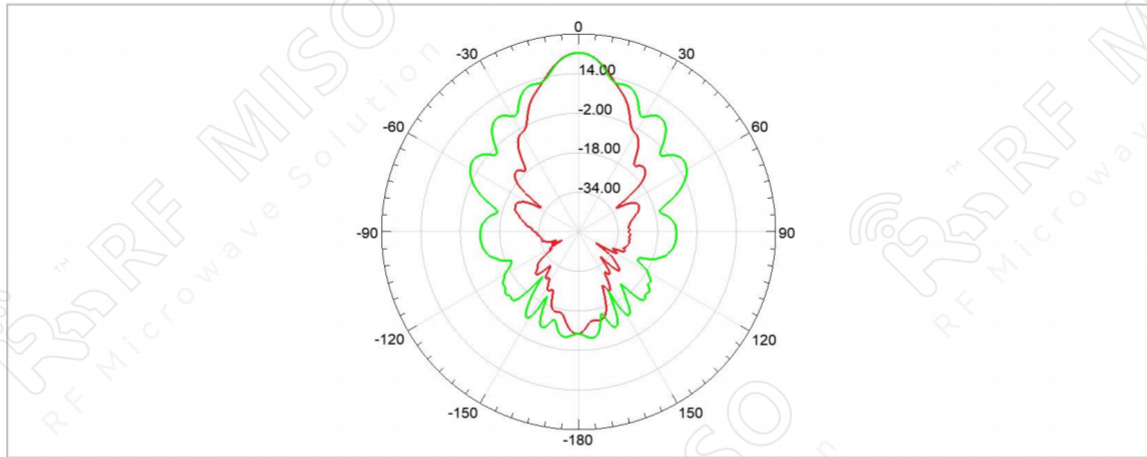
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3dB Beamwidth@86.6GHz: E-Plane 13.09, H-plane 13.75.



3dB Beamwidth@90GHz: E-Plane 12.43, H-plane 13.1.

