

Broadband Horn Antenna
10 dBi Typ. Gain, 0.75-18GHz Frequency Range

Broadband Horn Antenna Data Sheet

RM-BDHA07518-10

Features

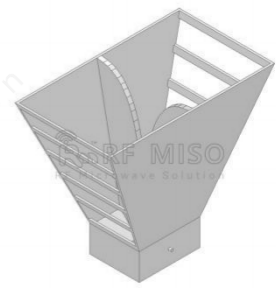
- Ideal for Antenna Measurements
- Linear Polarization
- Broadband Operation
- Light Weight

Description

The **RM-BDHA07518-10** is a linear polarized broadband horn antenna that operates in the frequency range of 0.75 GHz to 18 GHz. The antenna offers a typical gain of 10dBi and low VSWR 1.5:1 with SMA-KFD connector. The antenna supports linear polarized waveforms. It is suitable for extensive applications such as EMC/EMI testing, surveillance, direction finding, as well as antenna gain and pattern measurements.

Specifications

RM-BDHA07518-10		
Item	Specification	Units
Frequency Range	0.75-18	GHz
Gain	10 Typ.	dBi
VSWR	1.5:1	
Polarization	Linear	
Cross polarization	30 Typ.	dB
Connector	SMA-KFD	
Finishing	Paint	
Material	Al	dB
Size(L*W*H)	218*245.4*141.1(±5)	mm
Weight	1.329	kg
Power Handling, CW	50	W
Power Handling, Peak	100	W

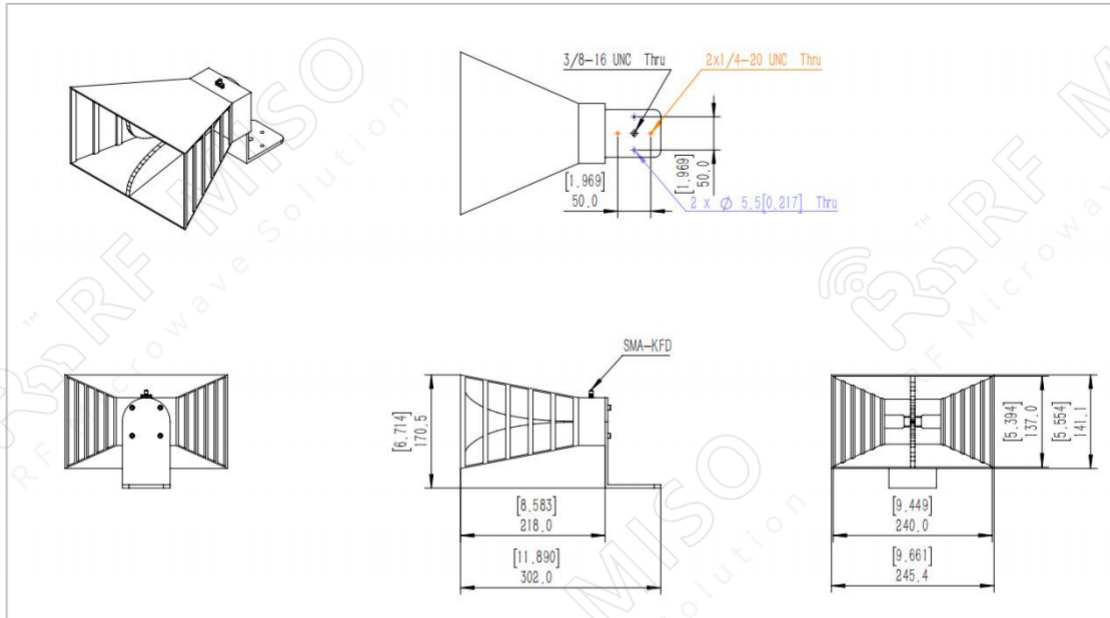


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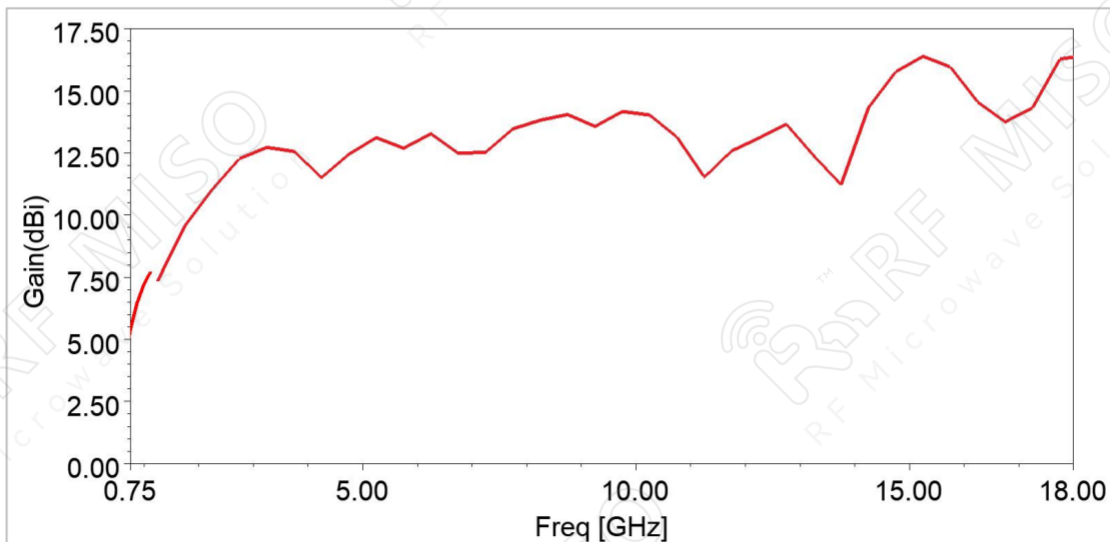
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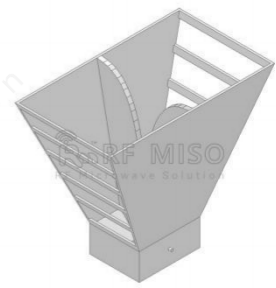
Outline Drawing



Simulation Results

Gain



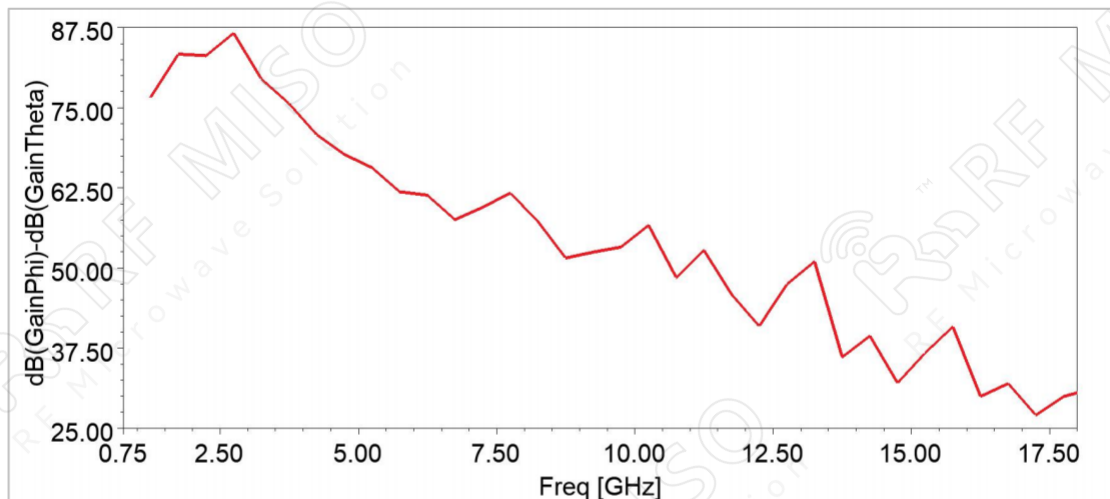


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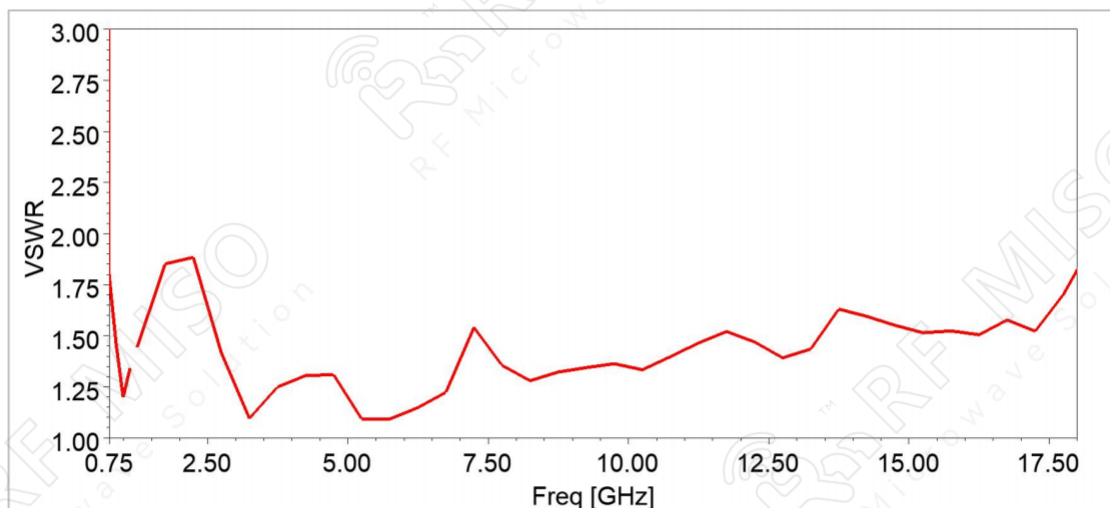
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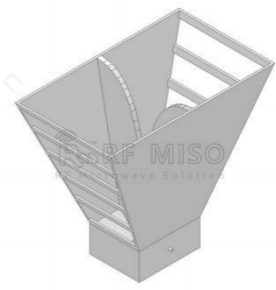
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Cross Polarization



VSWR





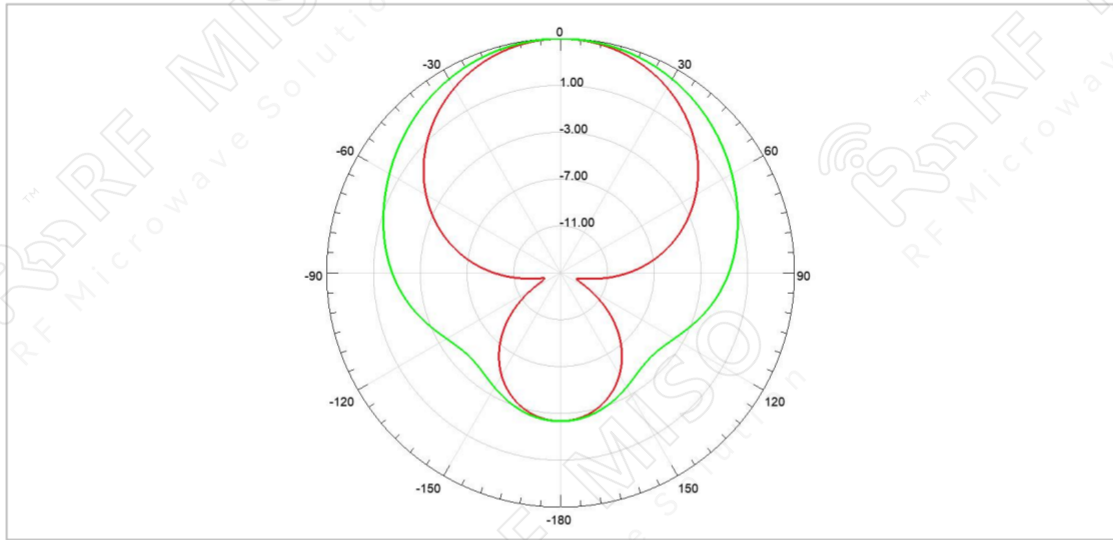
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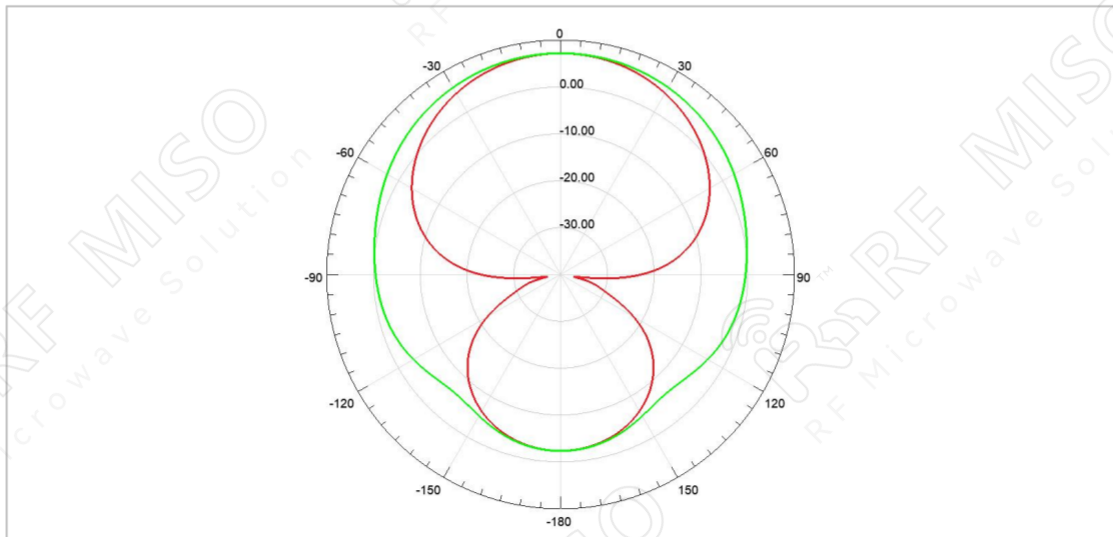
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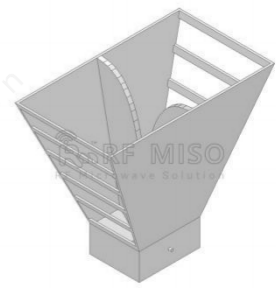
Pattern

3dB beamwidth@0.75GHz _ H Plane: 118deg, E Plane: 80deg



3dB beamwidth@1GHz _ H Plane: 98deg, E Plane: 65deg



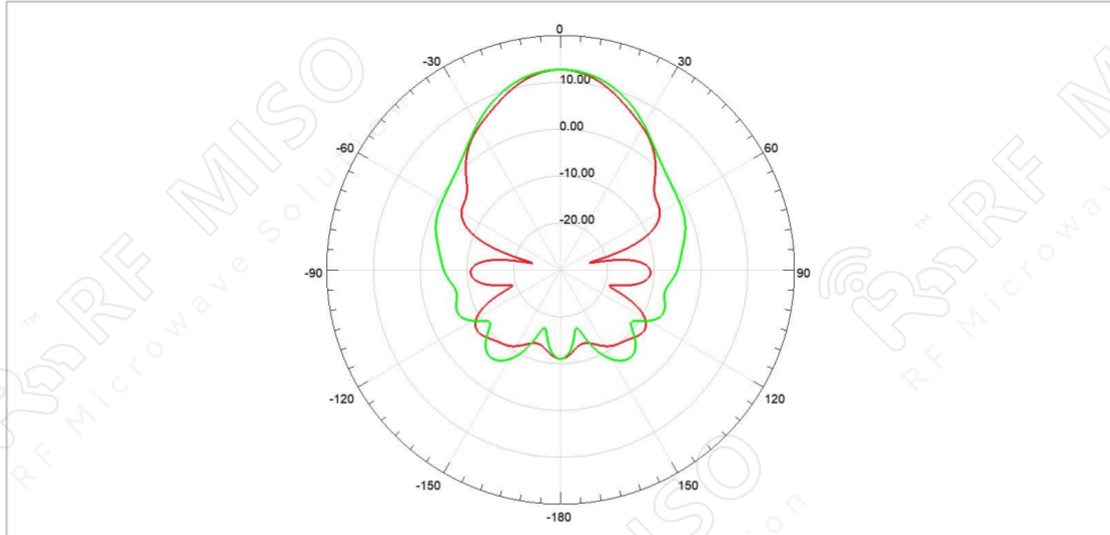


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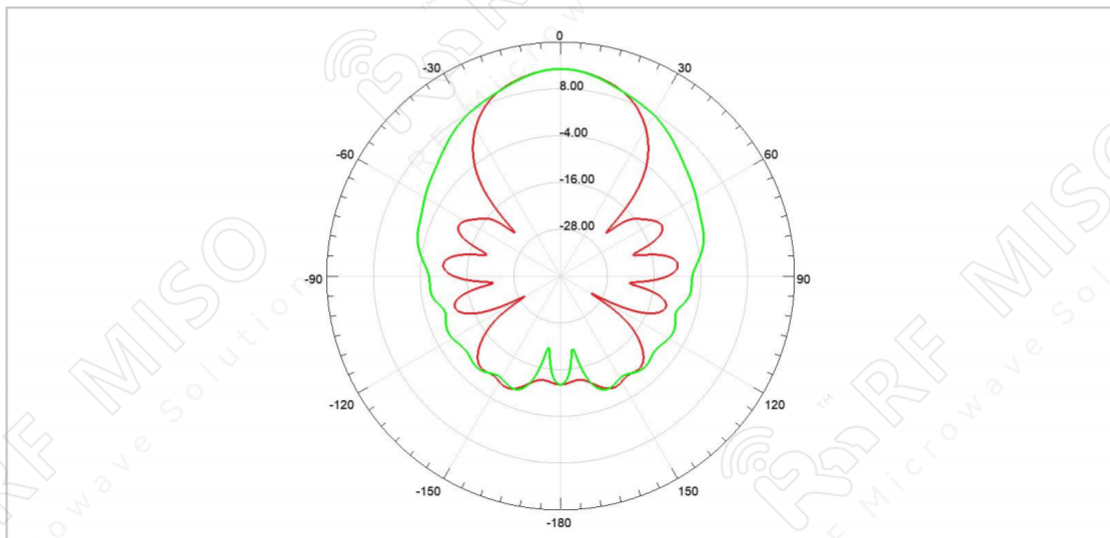
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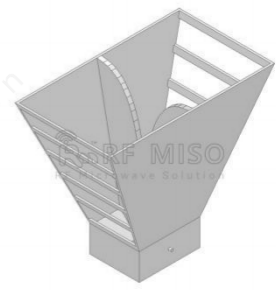
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3dB beamwidth@3GHz _ H Plane: 38deg, E Plane: 31deg



3dB beamwidth@5GHz _ H Plane: 36deg, E Plane: 35deg



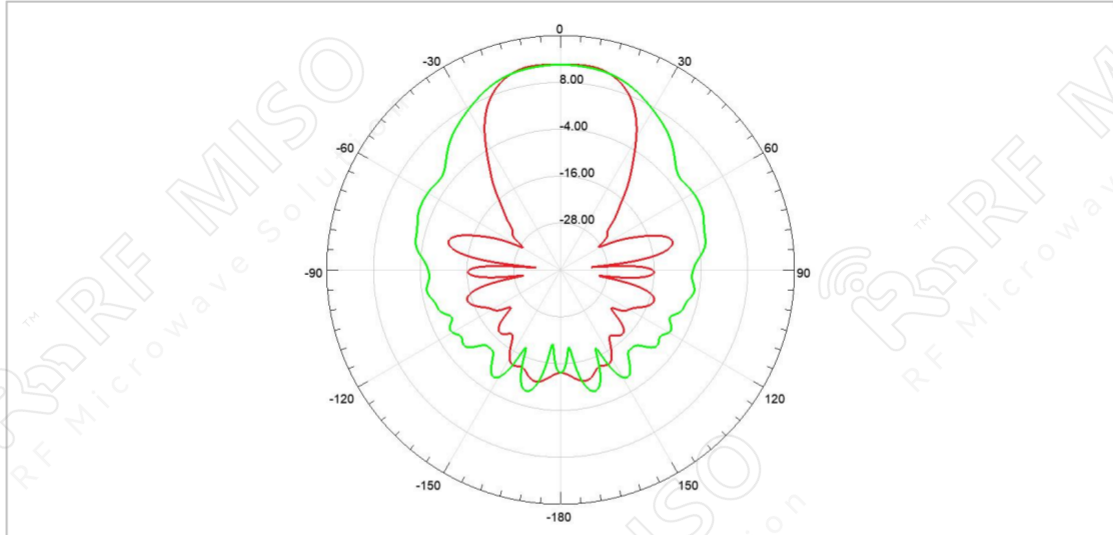


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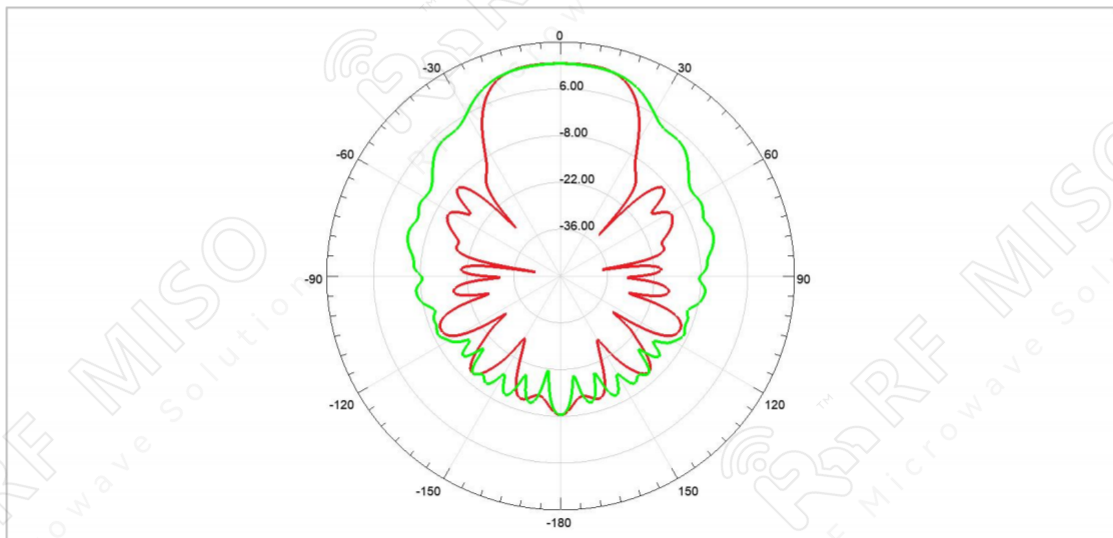
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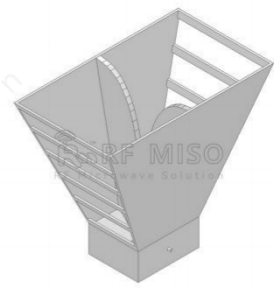
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3dB beamwidth@7GHz _ H Plane: 47deg, E Plane: 38deg



3dB beamwidth@9GHz _ H Plane: 45deg, E Plane: 39deg



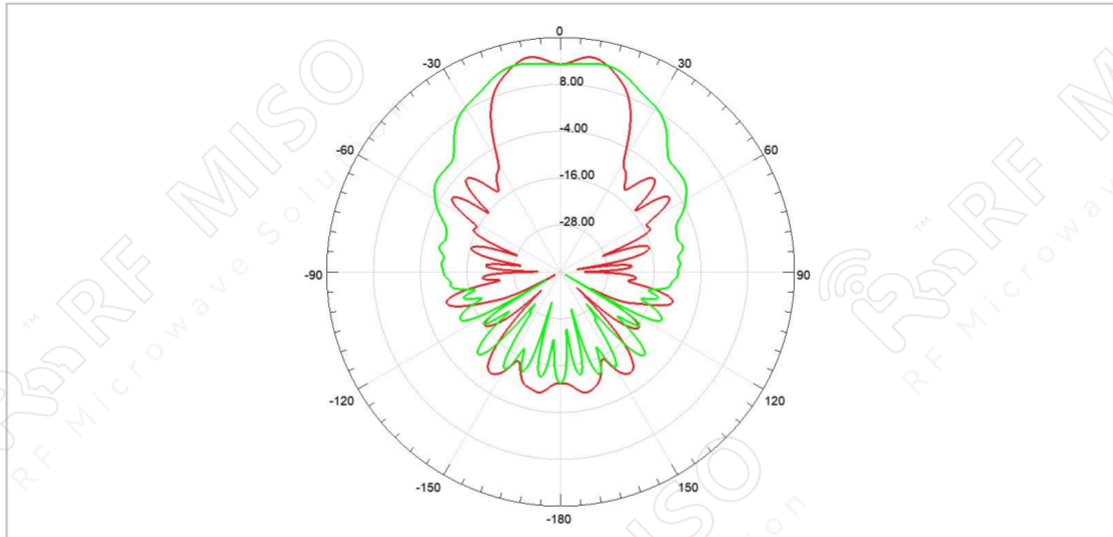


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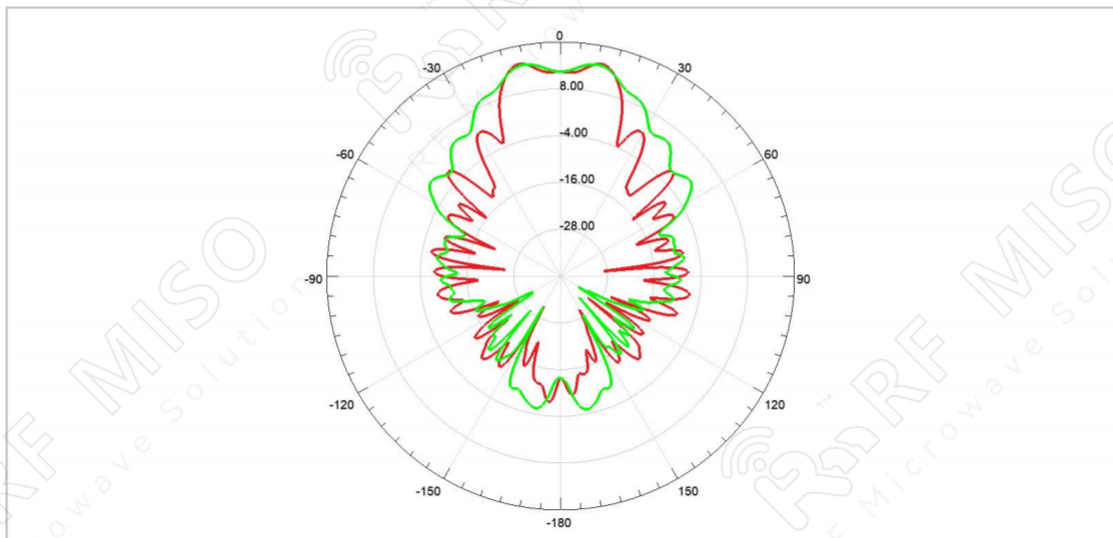
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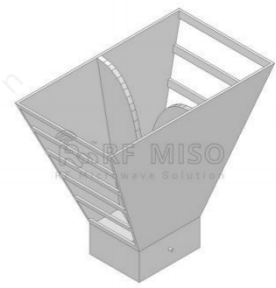
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3dB beamwidth@11GHz _ H Plane: 45deg, E Plane: 31deg



3dB beamwidth@13GHz _ H Plane: 34deg, E Plane: 32deg



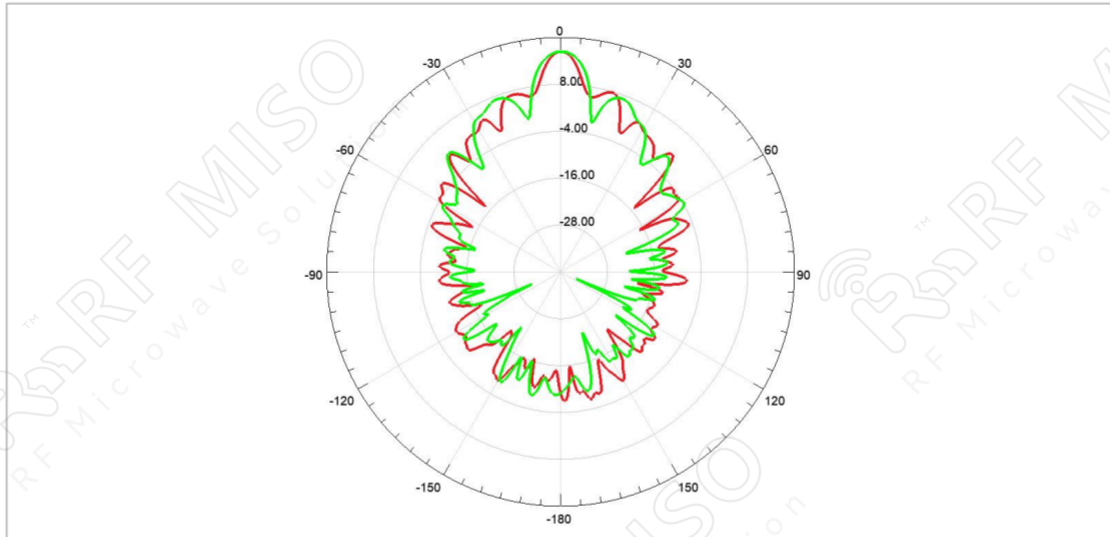


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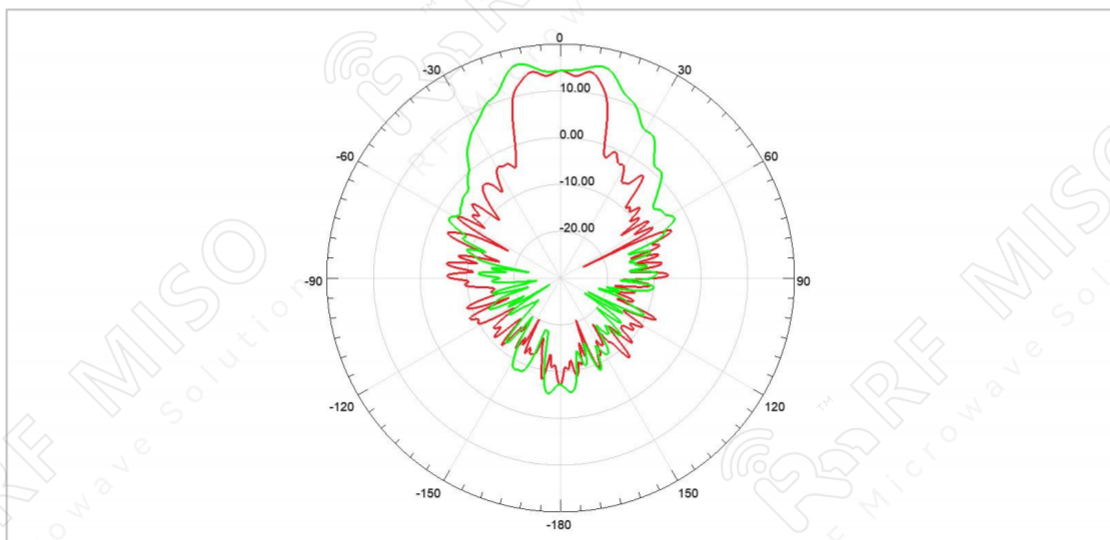
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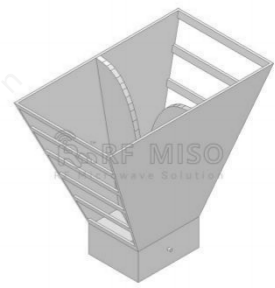
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3dB beamwidth@15GHz _ H Plane: 11deg, E Plane: 7deg



3dB beamwidth@17GHz _ H Plane: 33deg, E Plane: 26deg





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3dB beamwidth@18GHz _ H Plane: 28deg, E Plane: 14deg

