

*Circularly Polarized Horn Antenna 13dBi Typ. Gain,
7.05-10 GHz Frequency Range*

Circularly Polarized Horn Antenna Data Sheet

RM-CPHA710-13

Features

- Low VSWR
- Symmetrical Plane Beamwidth
- RHCP
- Military Airborne Applications

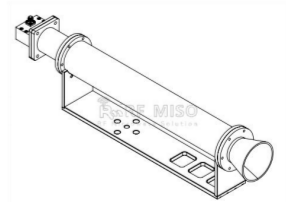
Descriptions

RF MISO's Model RM-CPHA710-13 is RHCP horn antenna that operates from 7.05 to 10GHz. The antenna offers a typical gain of 13 dBi and low VSWR 1.5 Typ.

The antenna is equipped with a circular polarizer, a Ortho-mode Transducer and a conical horn antenna. The pattern is symmetrical, and the working efficiency is high. Antennas are widely used in antenna far-field testing, radio frequency radiation testing and other scenarios.

Specifications

Parameters	Specification	Unit
Frequency Range	7.05-10	GHz
Gain	13 Typ.	dBi
VSWR	1.5 Typ.	
AR	<2	dB
Cross Polarization	25 Typ.	dB
Polarization	RHCP	
Interface	SMA-Female	
Material	Al	
Finishing	Paint	
Average Power	50	W
Peak Power	100	W
Size (L*W*H)	443.4*64*105.3 (±5)	mm
Weight	1.263	kg



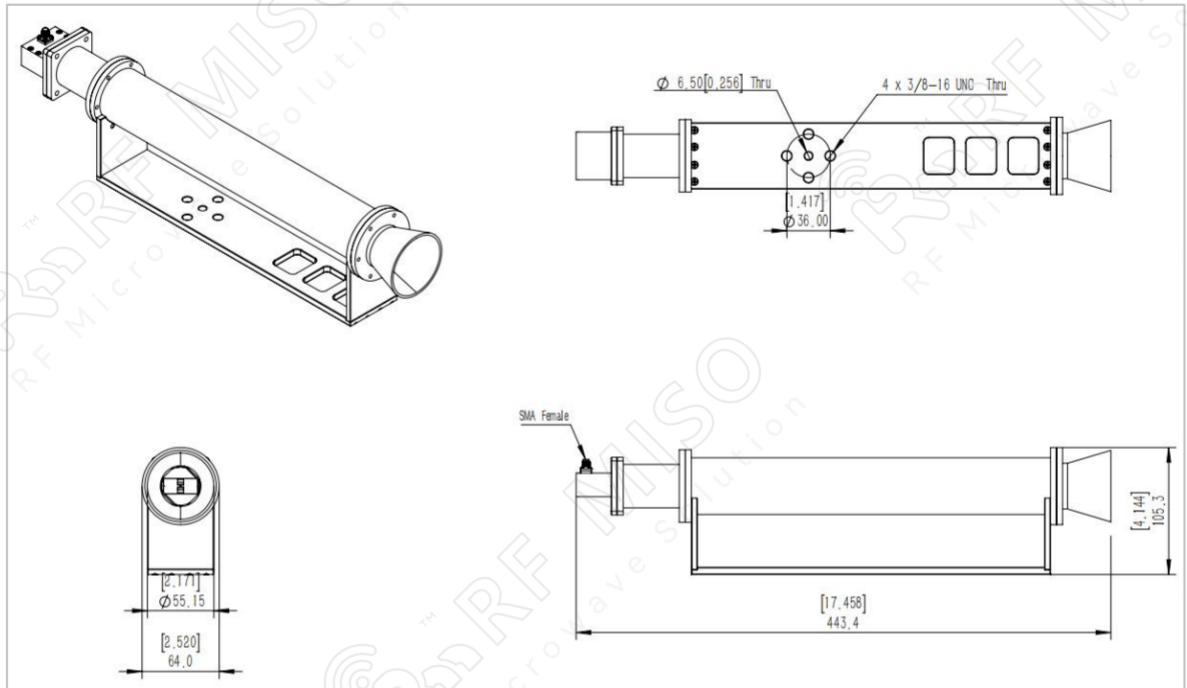
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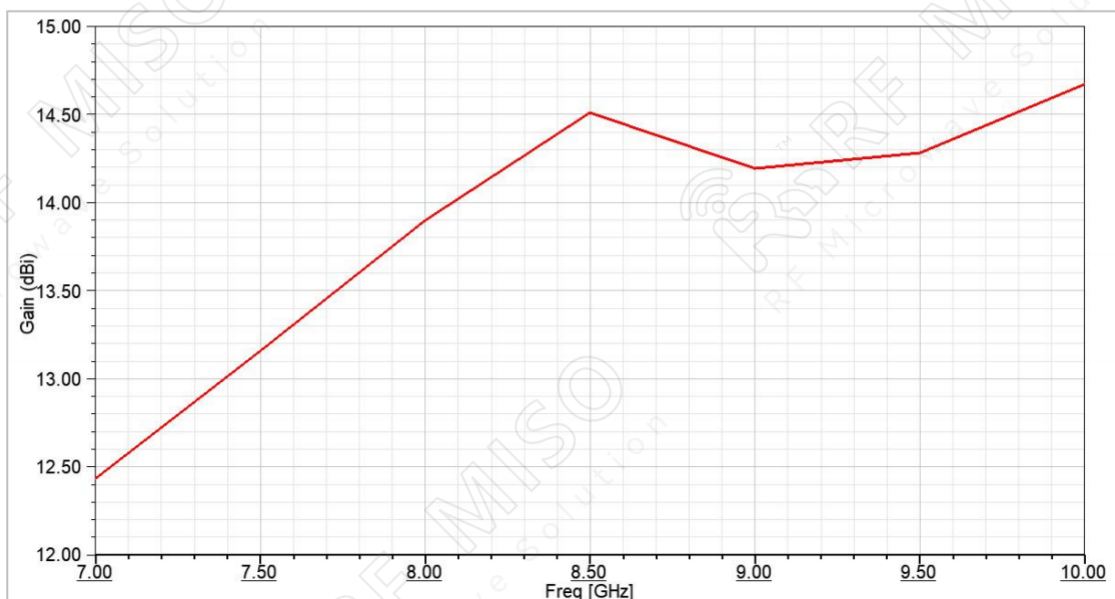
Outline Drawing

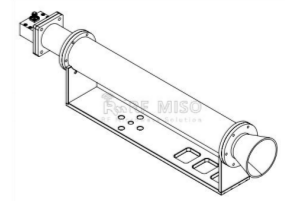
N type and 2.92mm type connectors are available, please contact RF Miso.



Simulation Data

Gain



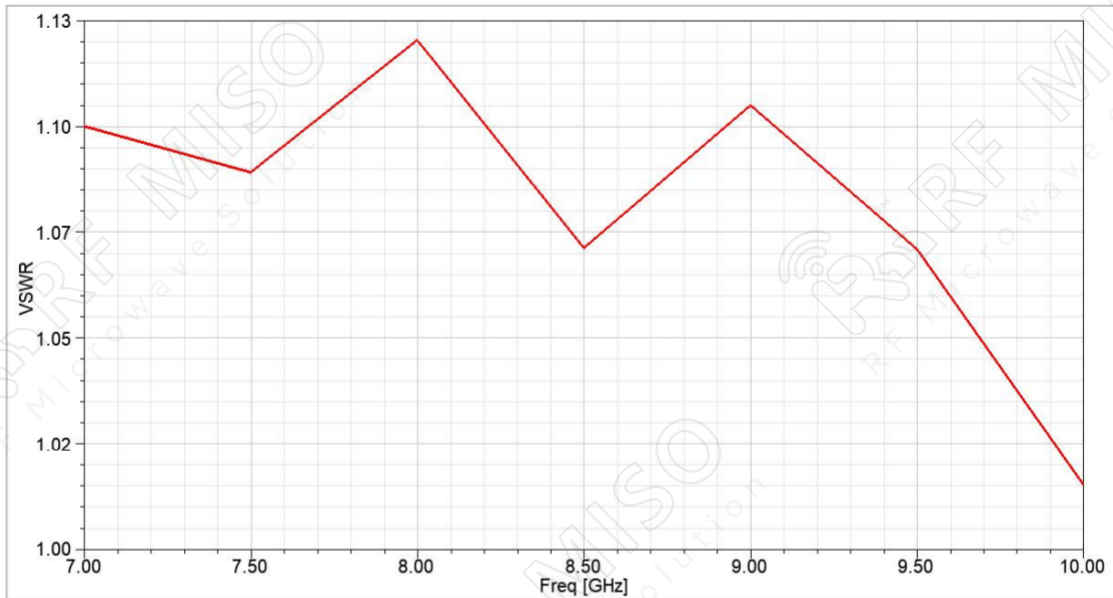


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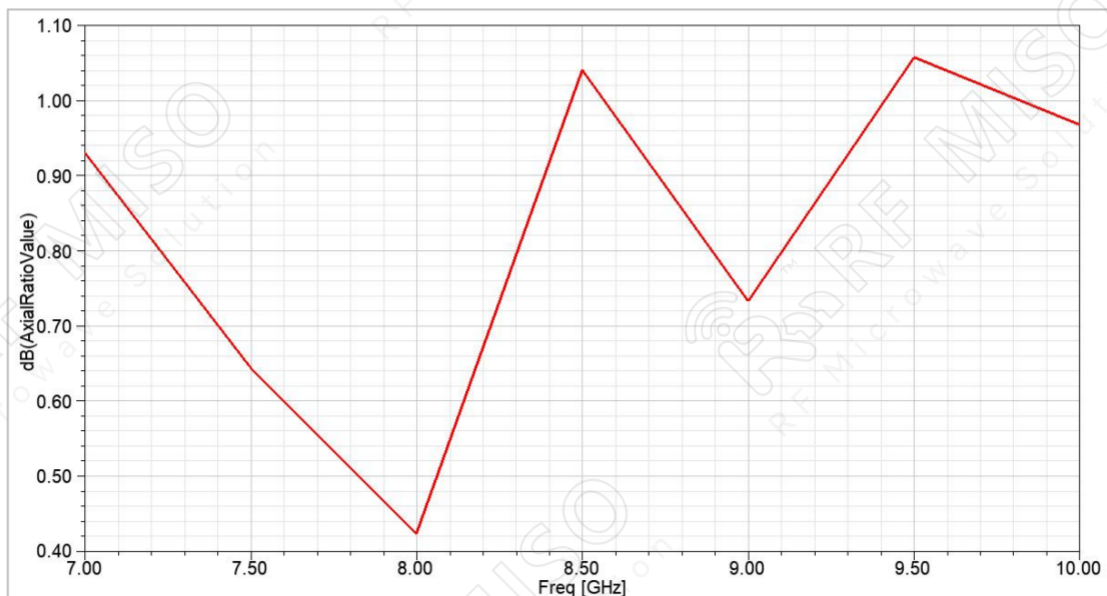
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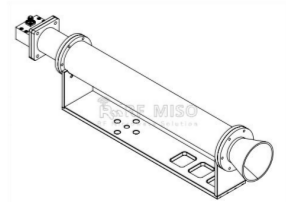
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VSWR



AR



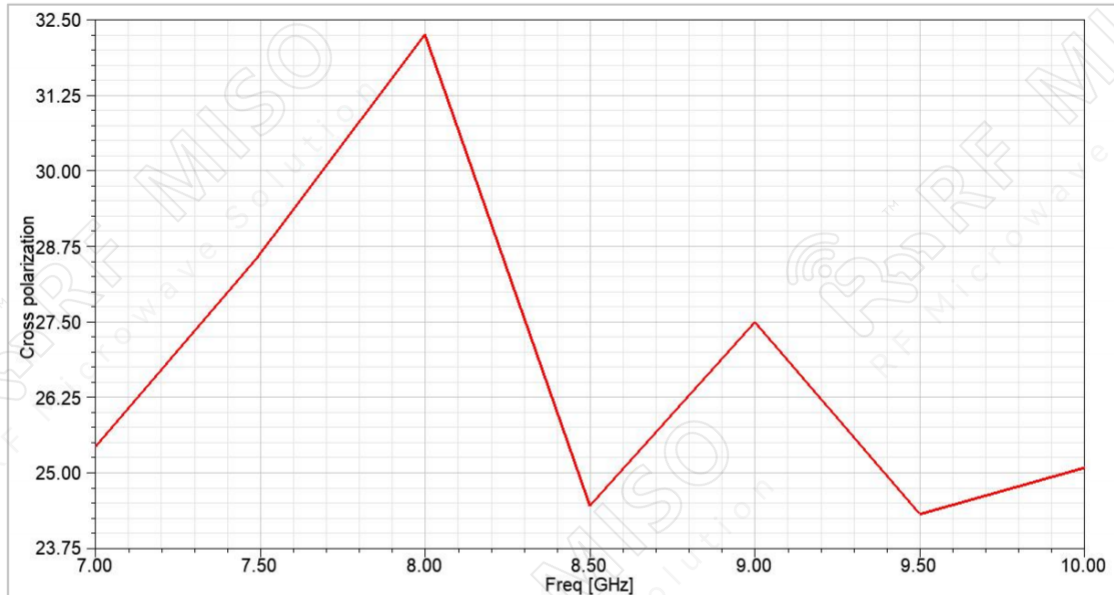


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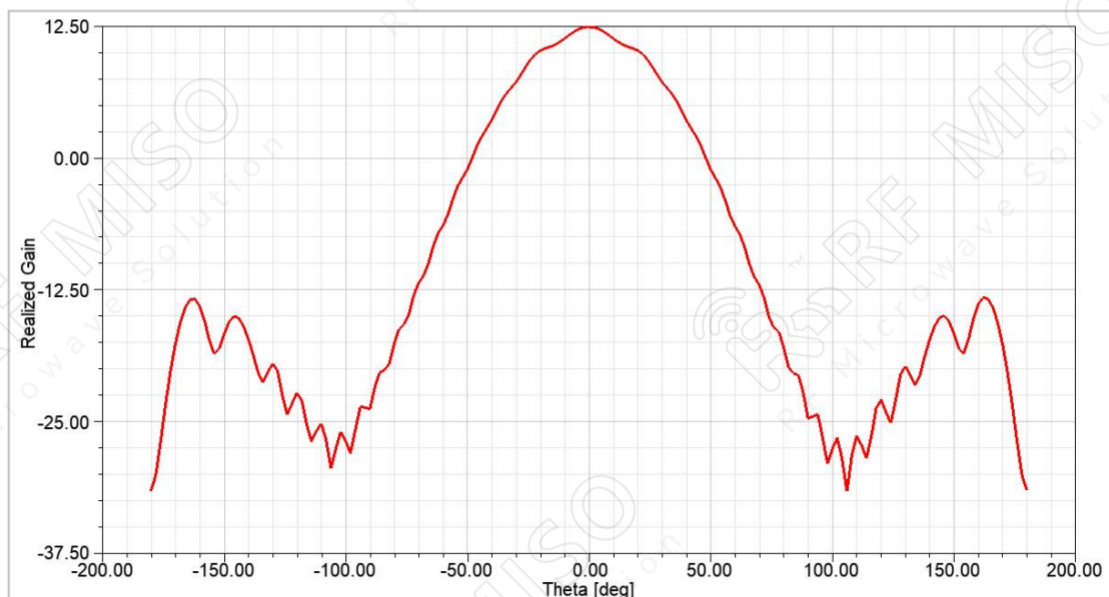
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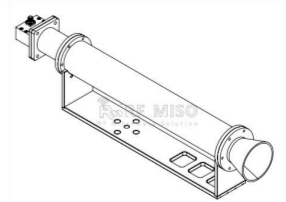
Cross Polarization



Gain Pattern



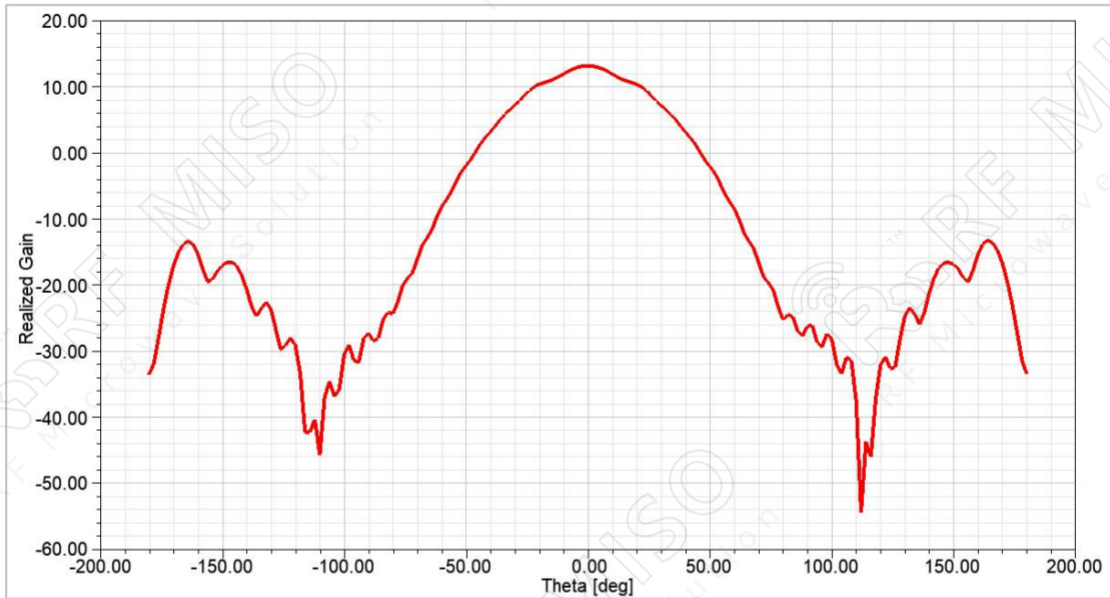
7 GHz



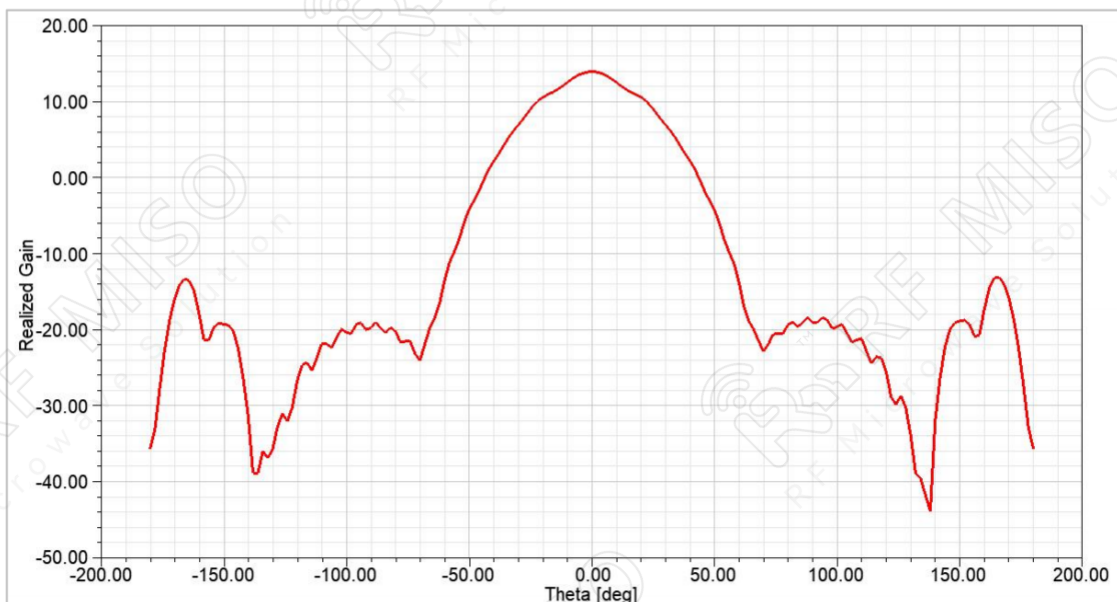
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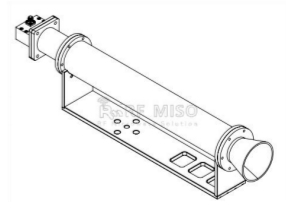
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7.5 GHz



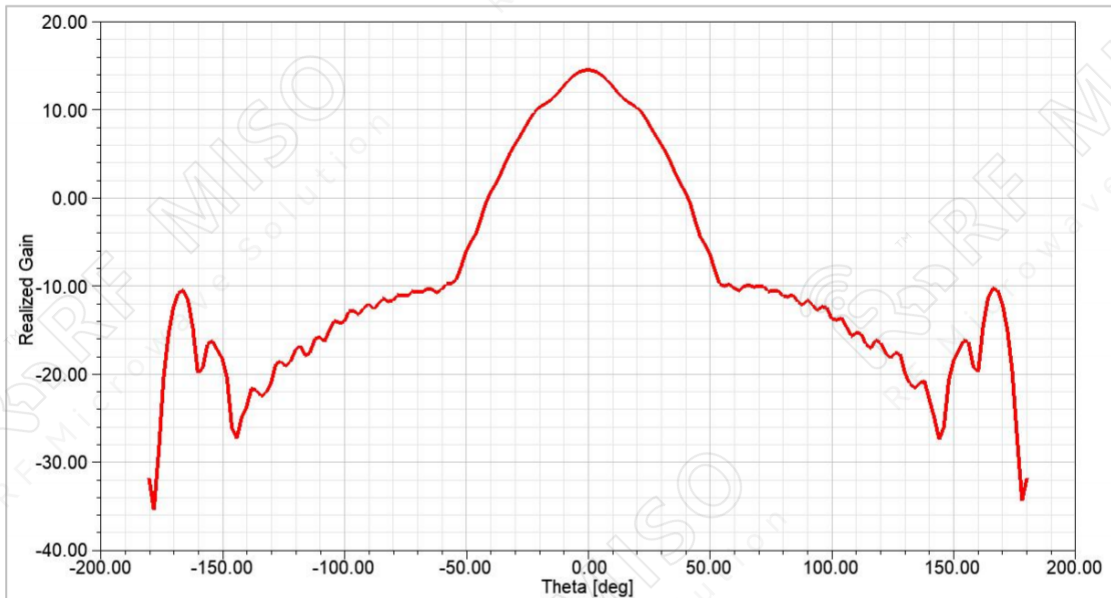
8 GHz



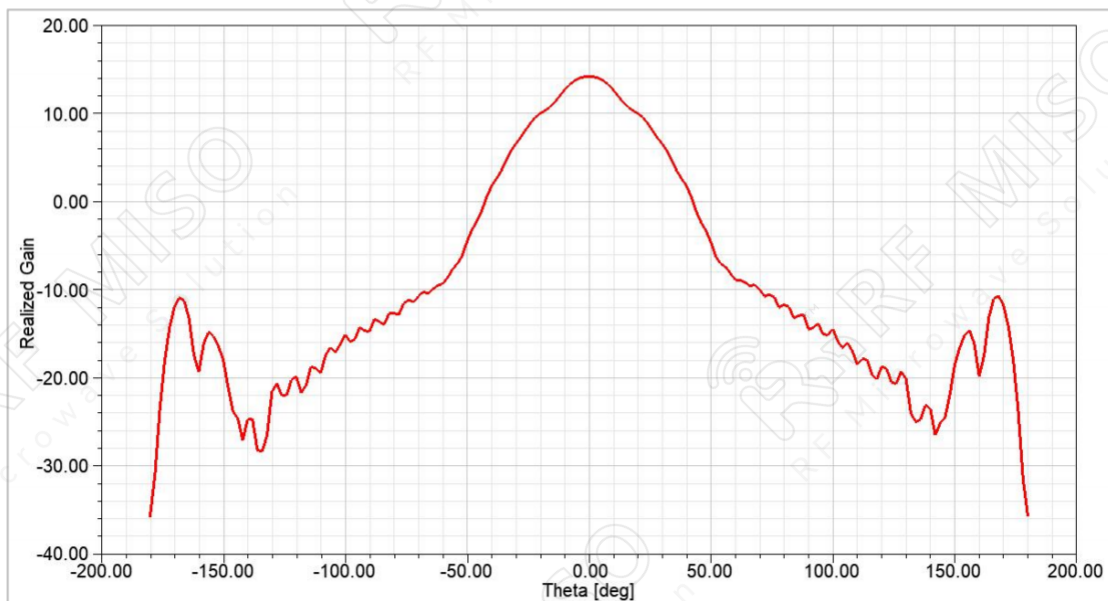
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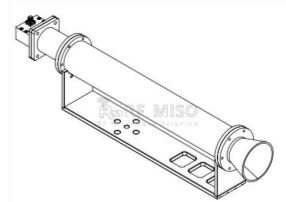
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8.5 GHz



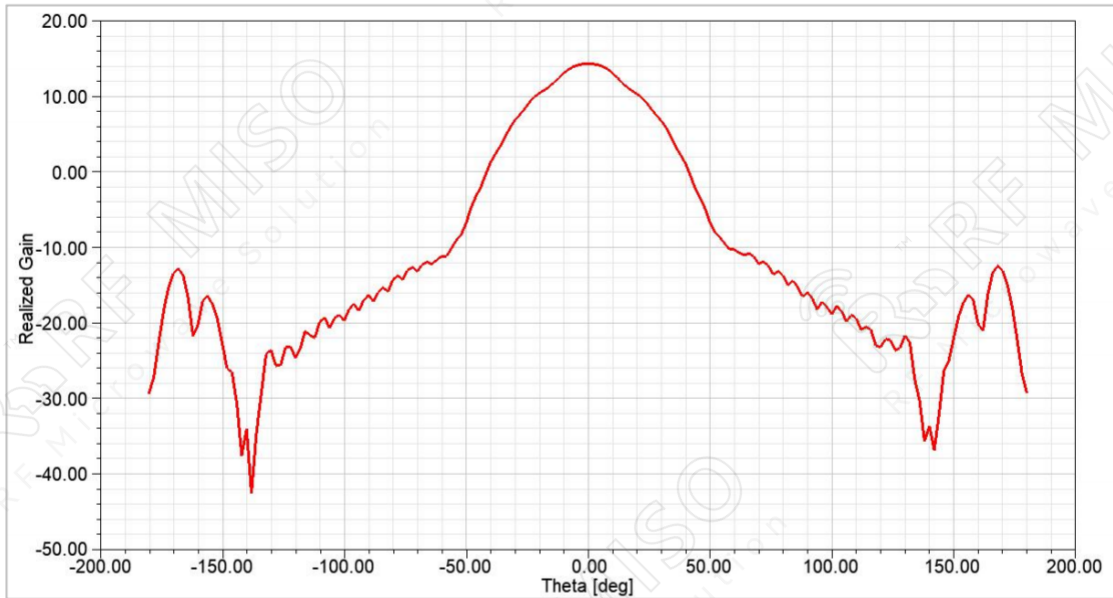
9 GHz



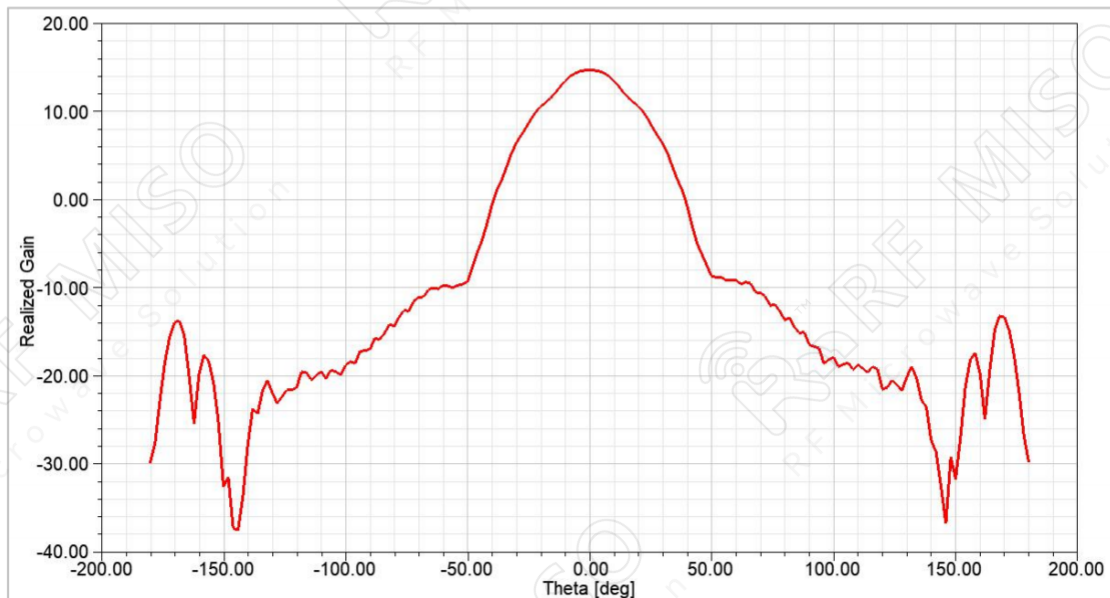
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9.5 GHz



10 GHz