

Planar Spiral Antenna
2 dBi Typ. Gain, 2-18 GHz Frequency Range



Planar Spiral Antenna Data Sheet

RM-PSA218-2R

Features

- Ideal for airborne or ground applications
- Low VSWR
- R-H Circular Polarization
- With Radome

Descriptions

RF MISO's **Model RM-PSA218-2R** is a right-handed circularly planar spiral antenna that operates from 2-18GHz. The antenna offers a gain 2 dBi Typ. and low VSWR 1.5:1 with SMA-Female connector. It designed for EMC, reconnaissance, orientation, remote sensing, and flush mounted vehicle applications. These helical antennas can be used as separate antenna components or as feeders for reflector satellite antennas.

Specifications

Parameters	Typical	Units
Frequency Range	2-18	GHz
Gain	2 Typ.	dBi
VSWR	1.5 Typ.	
Polarization	R-H Circular Polarization	
Connector	SMA-Female	
Material	Al	
Finishing	Paint Black	
Size(L*W*H)	Φ 82.55*48.26(±5)	mm
Antenna Cover	Yes	
Waterproof	Yes	
Weight	0.23	Kg
Axis Ratio	≤2	
Power Handling, CW	5	w
Power Handling, Peak	100	w

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Technical drawing of the RFR-1000 antenna, showing side and top views with dimensions in millimeters.

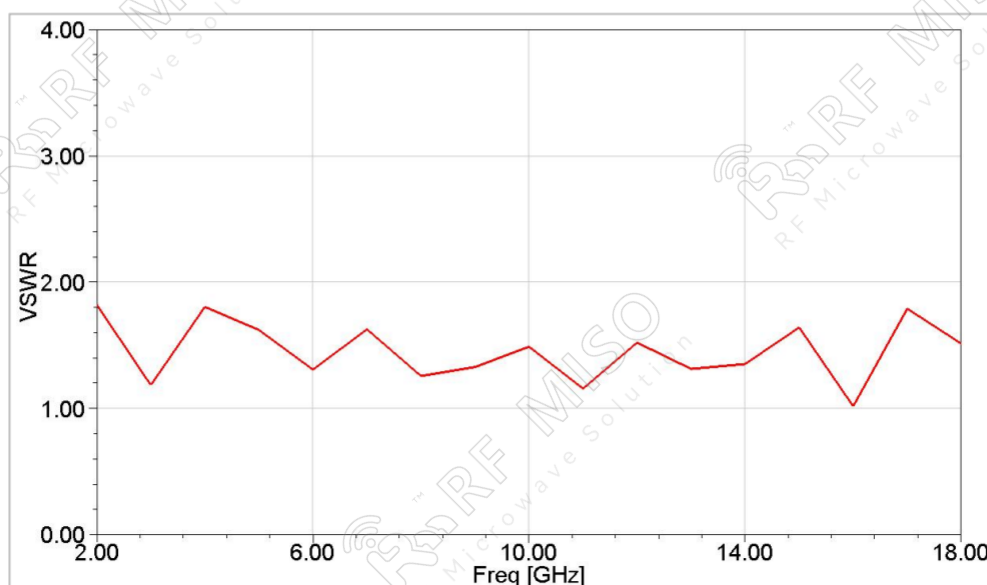
Side View Dimensions:

- Overall height: $[1.900]$ 48.26
- Height of the main body: $[1.260]$ 32.00
- Height of the SMA connector: $[0.190]$ 4.83
- Height of the base: $[1.550]$ 39.60
- Overall width: $[2.470]$ $\varnothing 62.74$
- Width of the main body: $[3.250]$ $\varnothing 62.55$

Top View Dimensions:

- Radius of the main body: $[0.820]$ 20.53
- Radius of the SMA connector: $[0.822]$ 20.88
- Radius of the base: $[0.920]$ 23.37
- Overall diameter: $[3.000]$ $\varnothing 76.20$
- Feature: SMA—Female
- Feature: $4 \times \varnothing 3.65 [0.144]$ Thru

VSWR



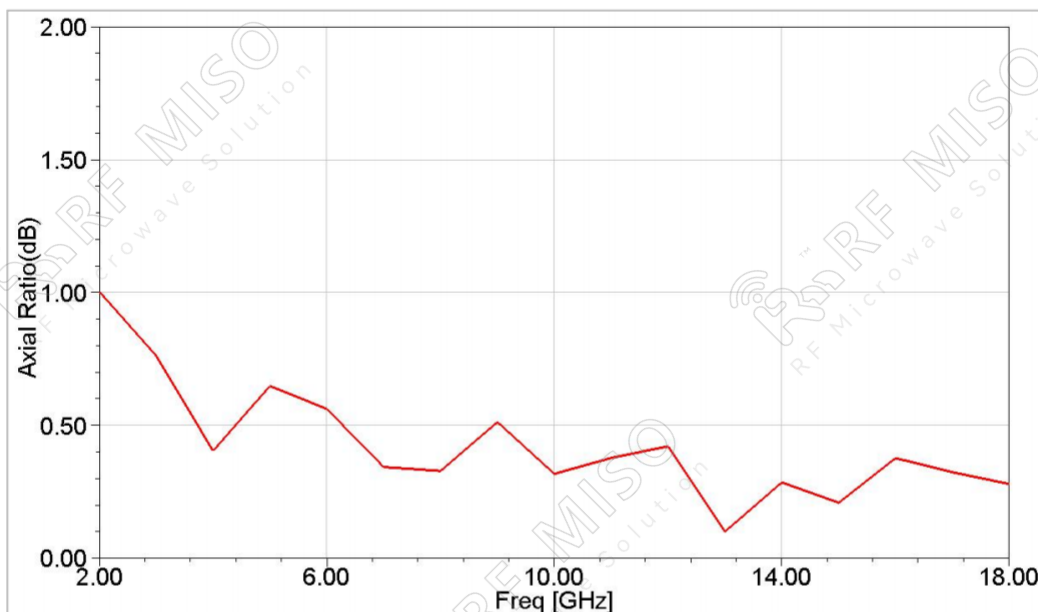
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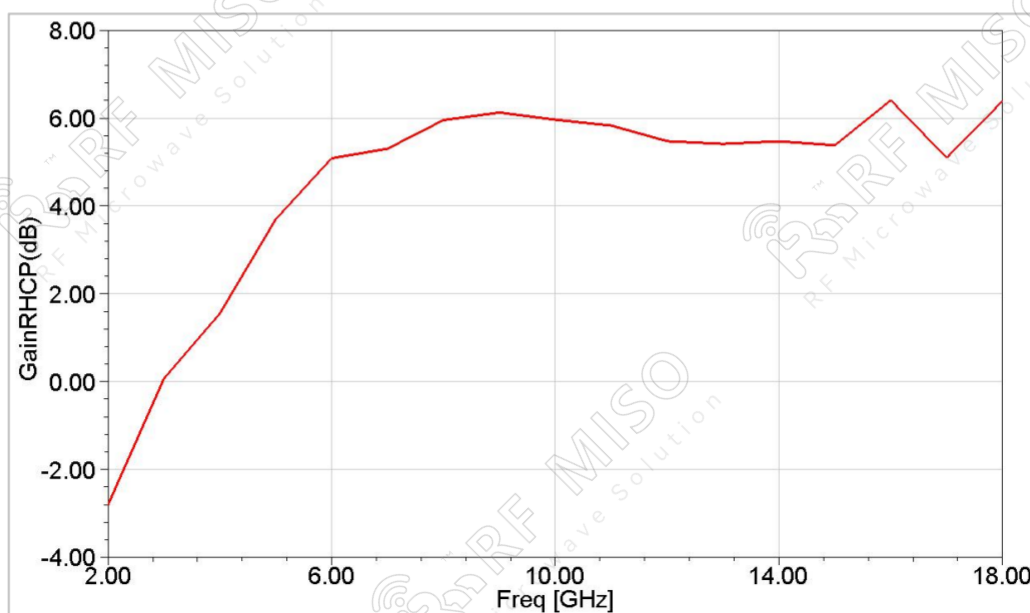
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Axial Ratio



Gain RHCP



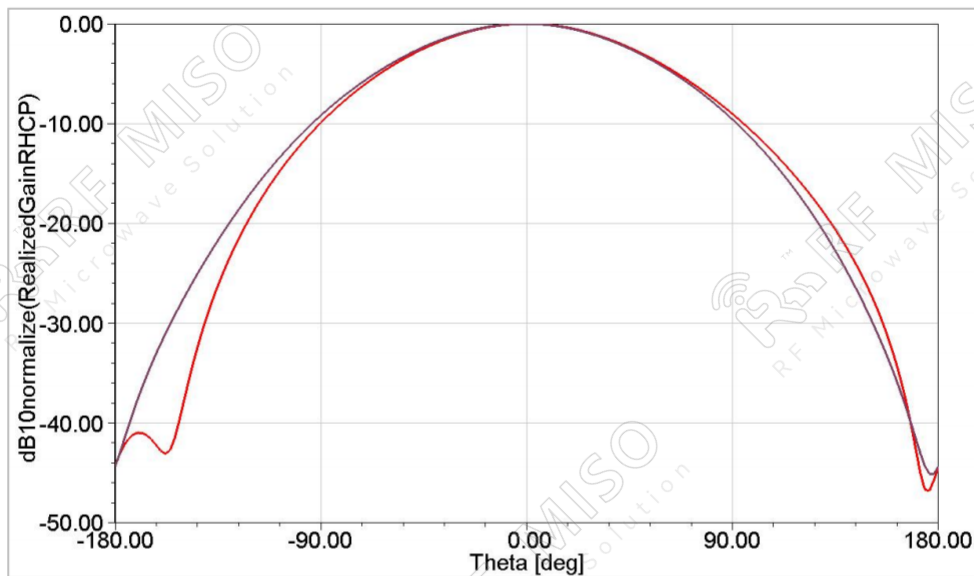
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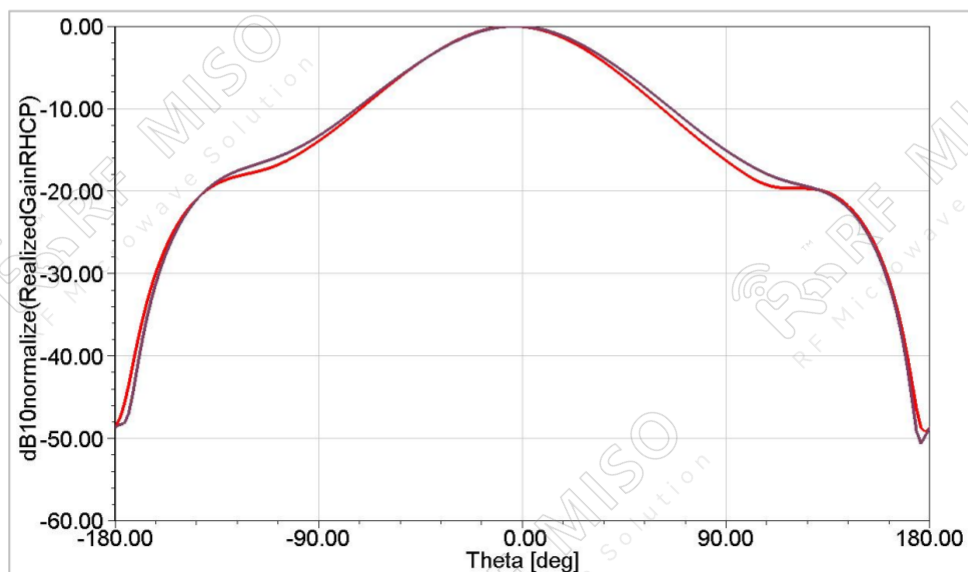
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2GHz:



6GHz:



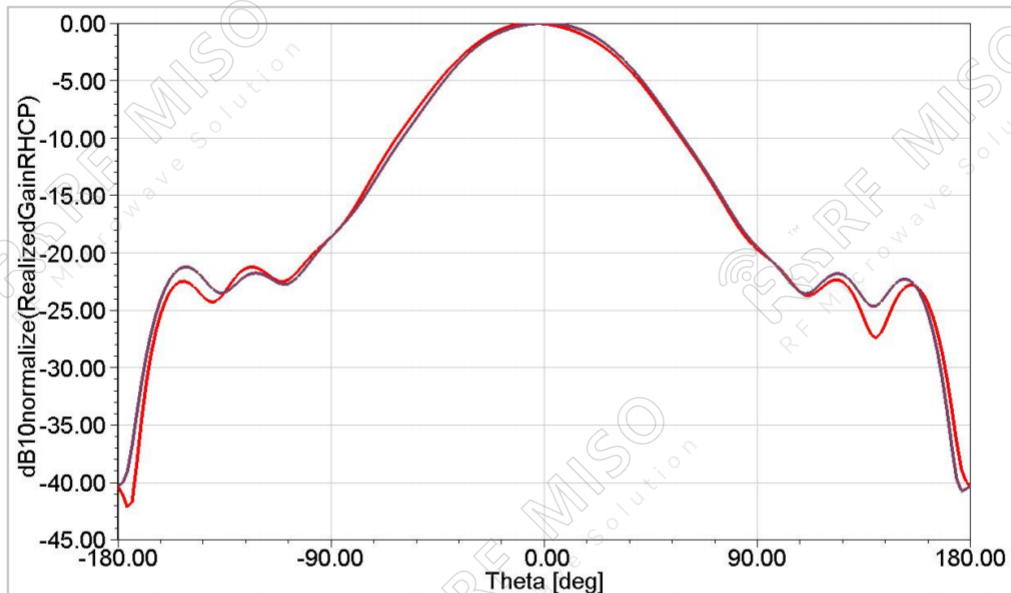
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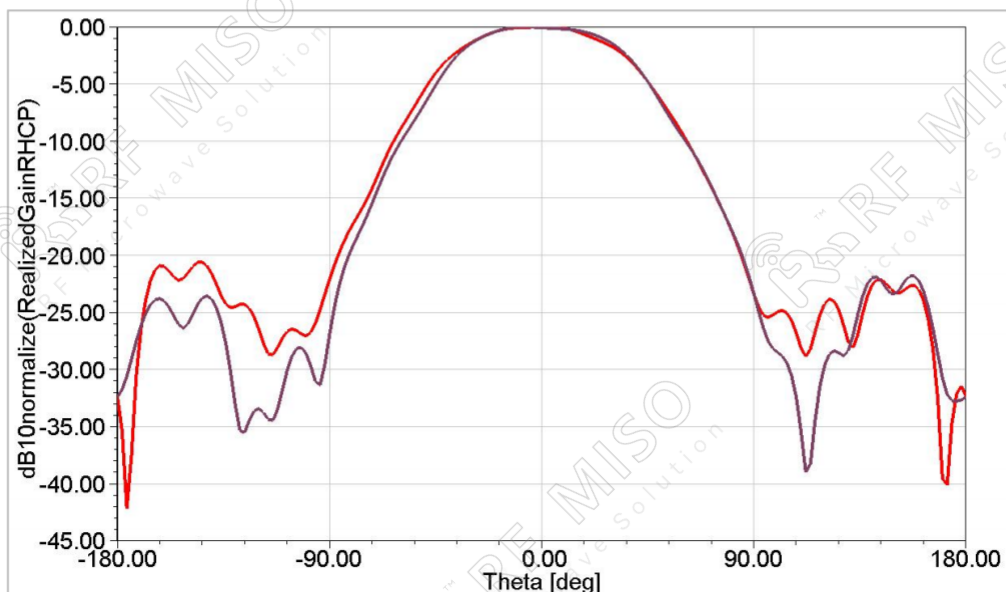
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10GHz:



14GHz:



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18GHz:

