

ANT-121-M22

Vandal Resistant 4G/5G 2x2 MIMO Omni Antenna



Applications

- Kiosks
- Vending Machines
- Digital Signage
- Video Surveillance
- Point-of-Sale Terminals
- SCADA / Telemetry / PLCs

Product Features

- Vandal Resistant
- Low Profile ~ 3 inches Tall
- Weatherproof
- Compatible with all 4G, 5G, FirstNet Networks
- Compatible with most Cellular Modems/Routers
- 3 – 4 dBi Peak Gain
- Omni-Directional MIMO
- 2x SMA Male Connectors on 10 ft Low-Loss Coax



Ordering Information

Part No.	Description
ANT-121-M22	Vandal Resistant MIMO Low Profile 4G/5G Omni-Directional Screw Mount MIMO Antenna - 10 ft Coax Lead

General Description

This low profile (~3 inches tall) fixed mount omni-directional antenna is a solution for today's state-of-the-art multi-antenna wireless systems (5G & 4G/LTE). It offers 3 to 4 dBi of gain and support for all 4G/5G cellular frequency bands on AT&T, Verizon, T-Mobile, Bell, Rogers, Telus and other carriers worldwide.

Permanently mounts via a 1/2 in. (12 mm) hole. Resists vandalism with no exposed coax cable, high impact ABS radome shell and a thick threaded mounting post. Includes two 10 ft strands of paired low-loss LMR 100 coax fed through the center mounting post. Includes an "L" bracket for optional wall mounting. Completely waterproof (IP67).

Integrated SMA male plug connectors mate with SMA female jacks found on most cellular modems and routers. The single lead version of this antenna is part # ANT-121-002 and the 4x4 MIMO version is ANT-121-M44

* For optimum performance this antenna should be mounted on a flat, horizontal metal surface at least 8 inches in diameter.

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Electrical Specifications

Parameter	Rating
Frequency Range	600-6000 MHz - all 4G & 5G Sub-6 (FR1) Bands including FirstNet and CBRS (OnGo)
Gain	3 – 4 dBi
VSWR	≤ 2.0:1
Input Impedance	50 Ohm
Polarization	Vertical
Max Input Power	50 W
DC Grounded	No
Ground Plane	8 inch (20 cm) diameter min

Mechanical Specifications

Parameter	Rating
Connector Type	2x SMA Male (plug)
Cable Length	10 ft (3 m) of LMR100 low-loss coax
Height	Radome: 3.2 inches (82 mm) above mounting surface Overall: 4.0 inches (102 mm)
Diameter	Radome: 1.9 inches (48 mm) at base Mounting post: 0.5 inches (12 mm x 1 mm extra fine thread)
Weight	6.2 oz (176 g excluding mounting bracket)
Materials	Radome: UV stabilized ABS plastic Connector: Brass with Nickel plating Mounting Bracket: Aluminum Adhesive Pad: Urethane Foam
Antenna Color	Black
Operating Temperature	-40°C to +70°C
Environmental Rating	IP67 (waterproof)

Operation of this device outside the parameter ranges given above may cause permanent damage.

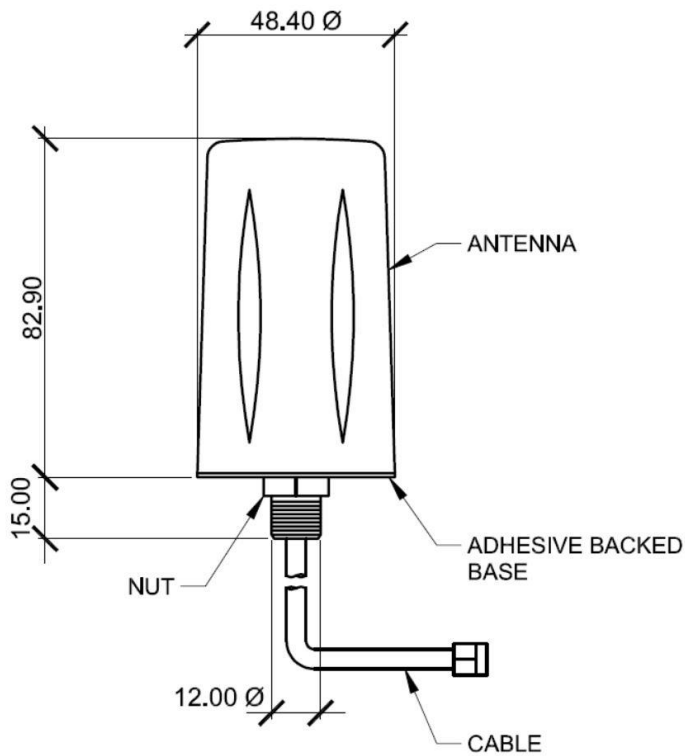
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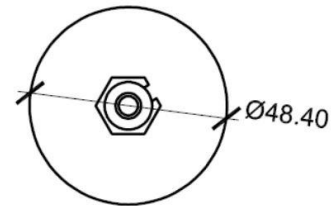


Mechanical Dimensions

NOTE: ALL DIMENSIONS IN MILLIMETERS (mm)



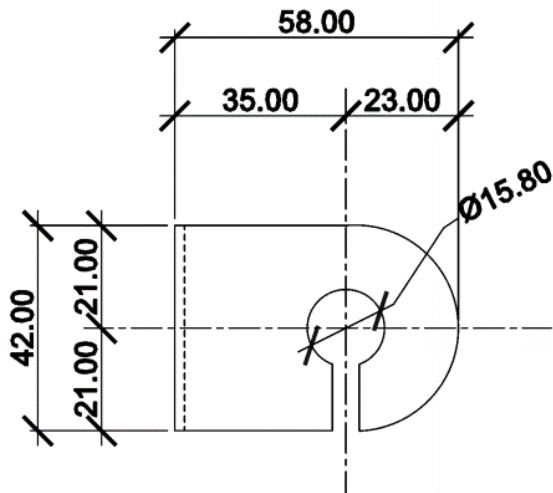
FRONT VIEW



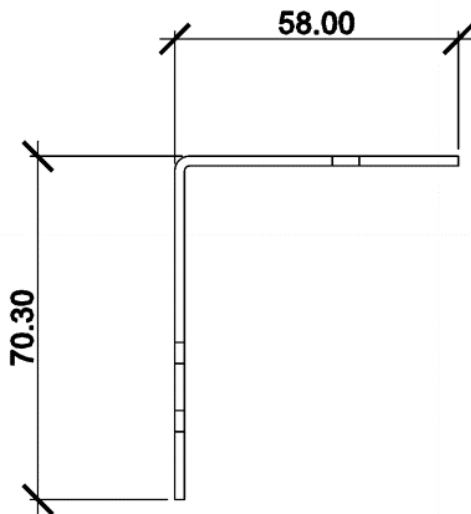
BOTTOM VIEW

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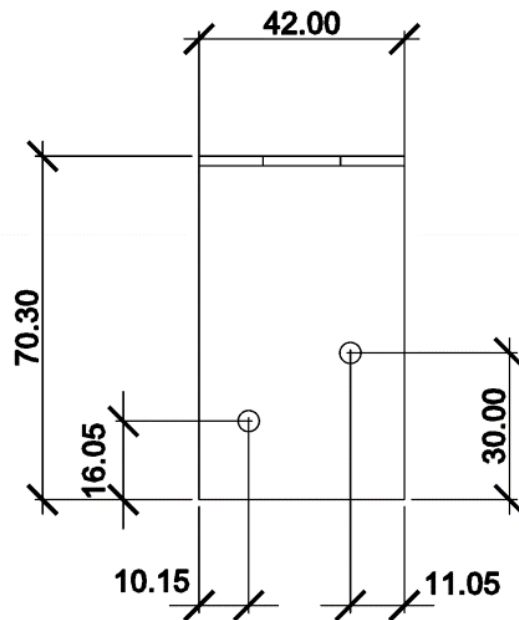
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PLAN VIEW



SIDE ELEVATION



FRONT ELEVATION

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Additional Product Images



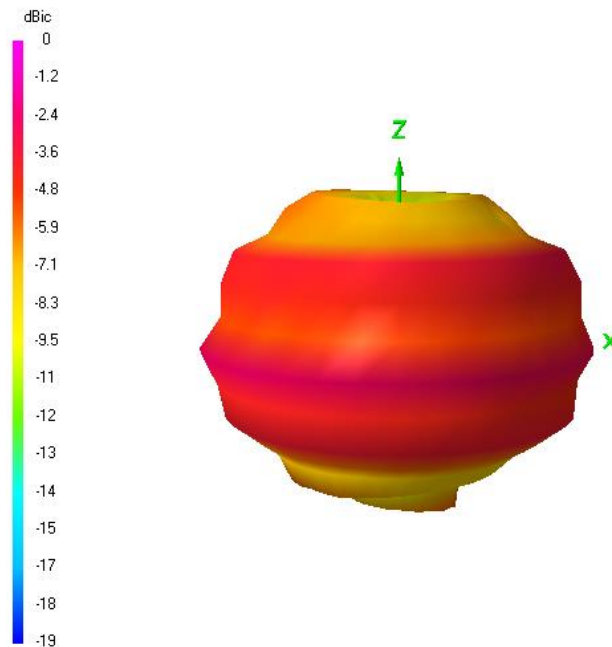
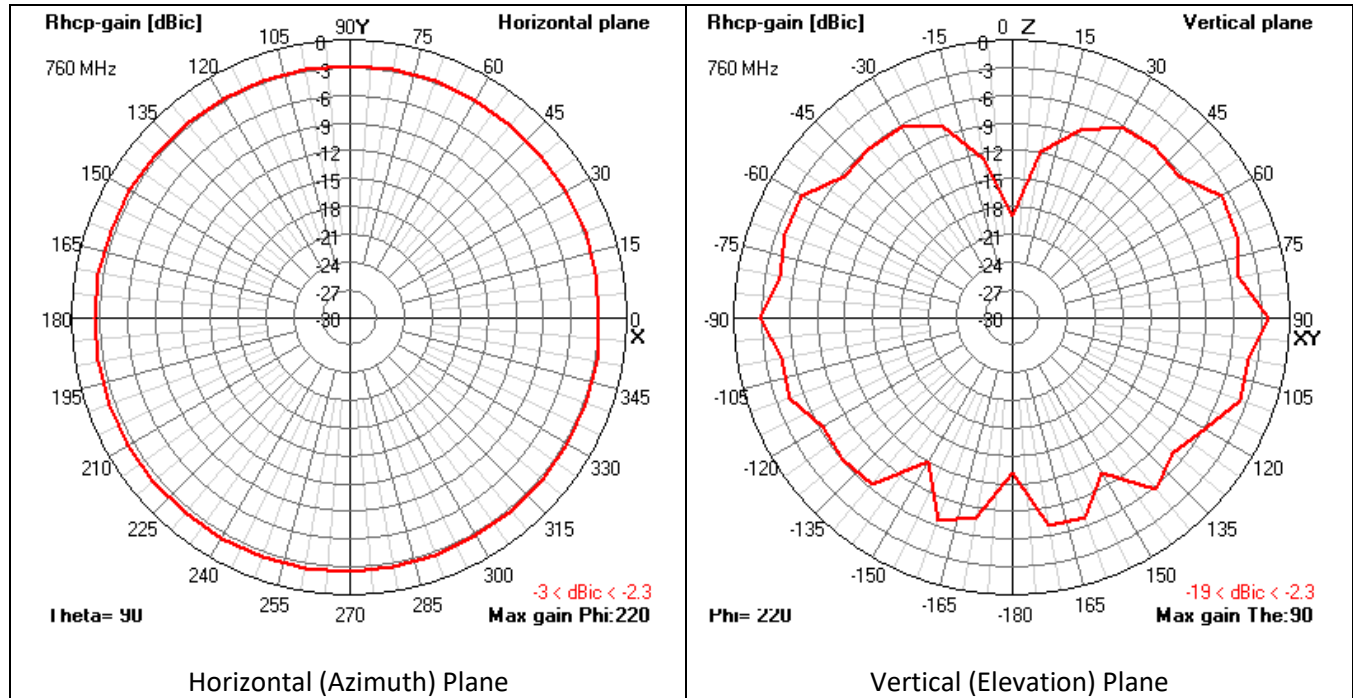
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Vandal Resistant 4G/5G 2x2 MIMO Omni Antenna



Radiation Patterns

760 MHz



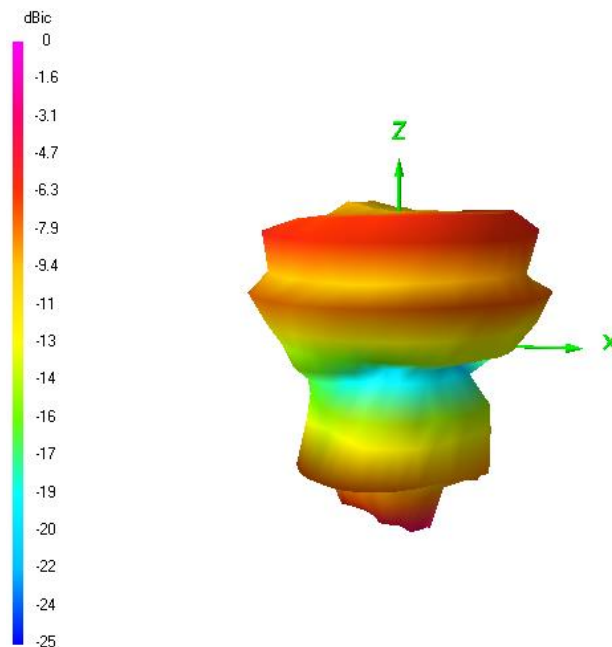
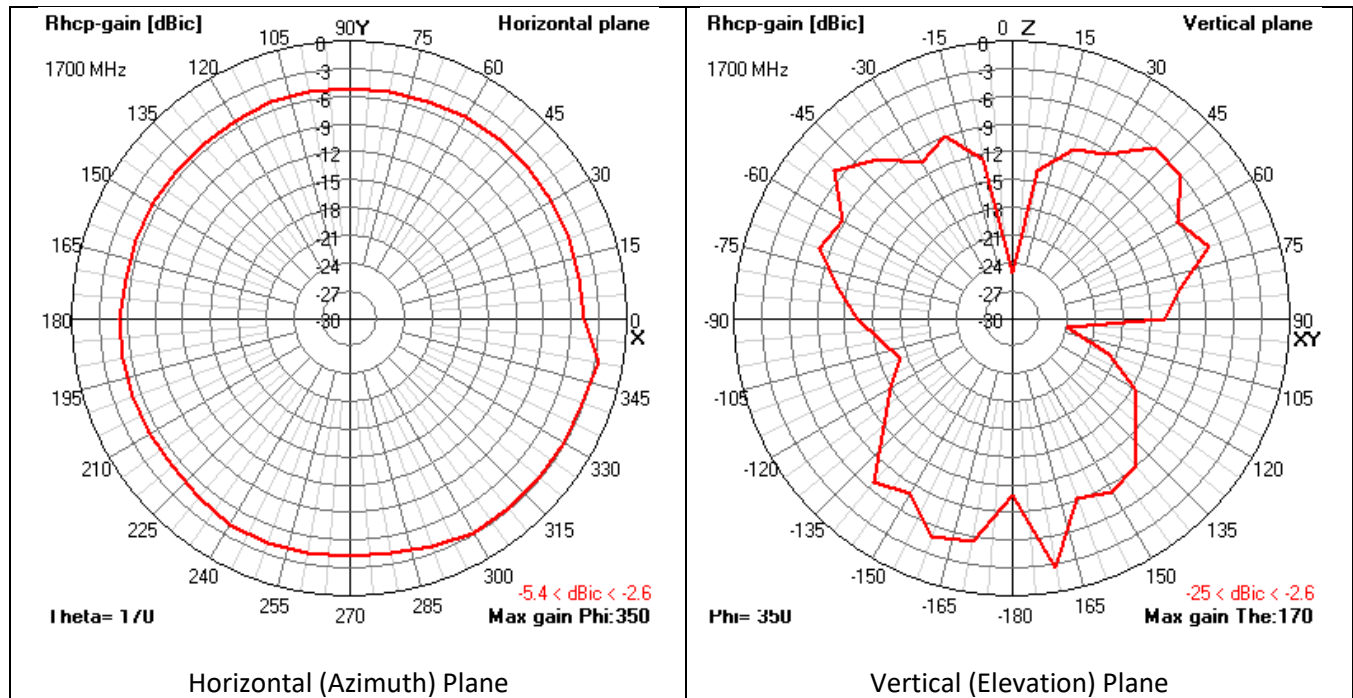
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Radiation Patterns

1700 MHz



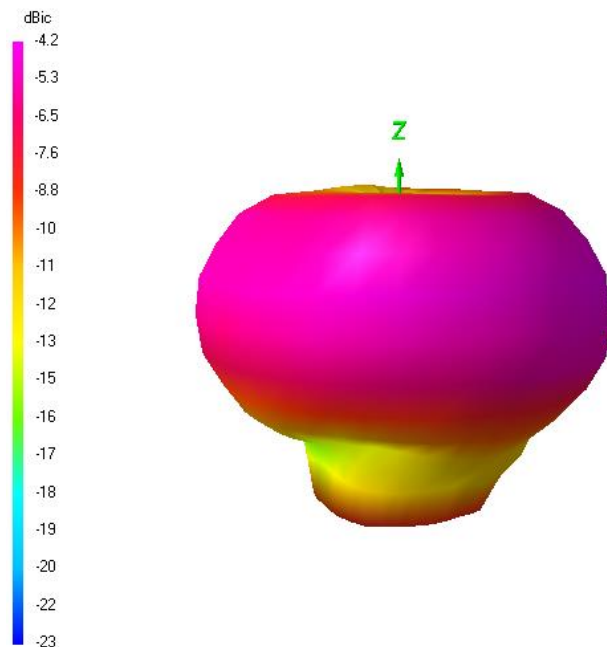
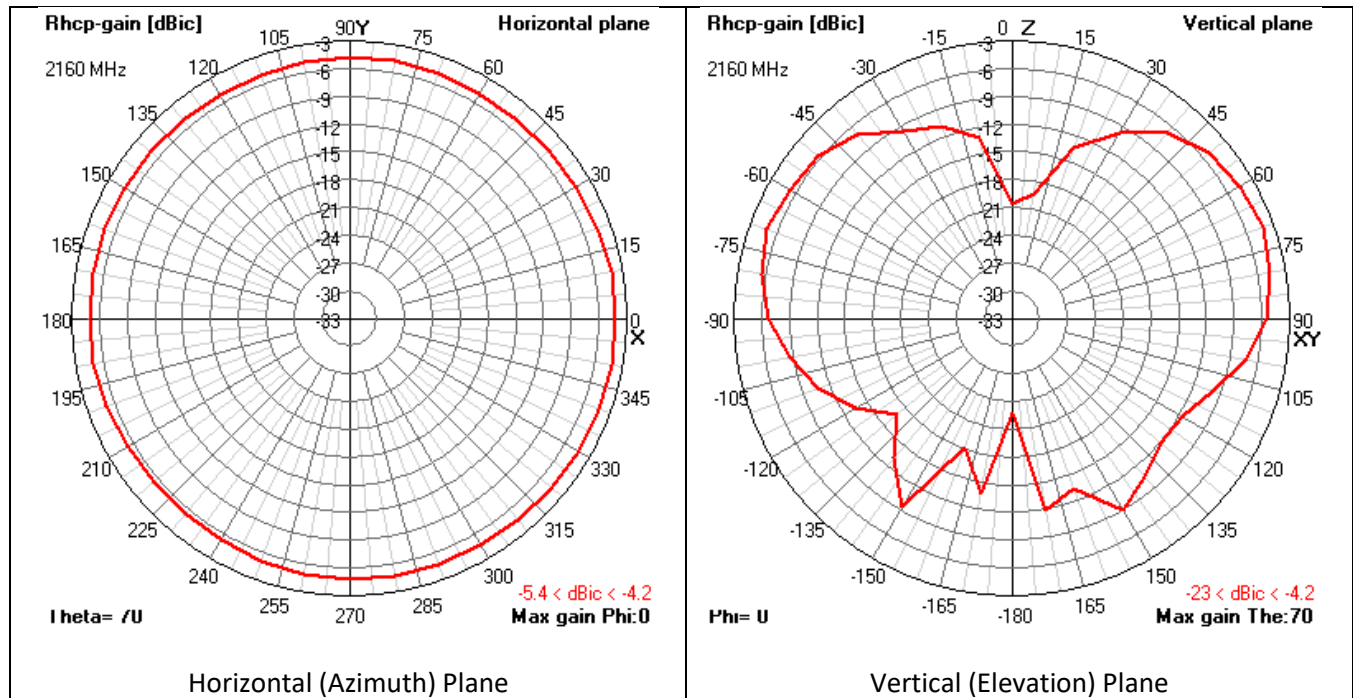
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Radiation Patterns

2160 MHz



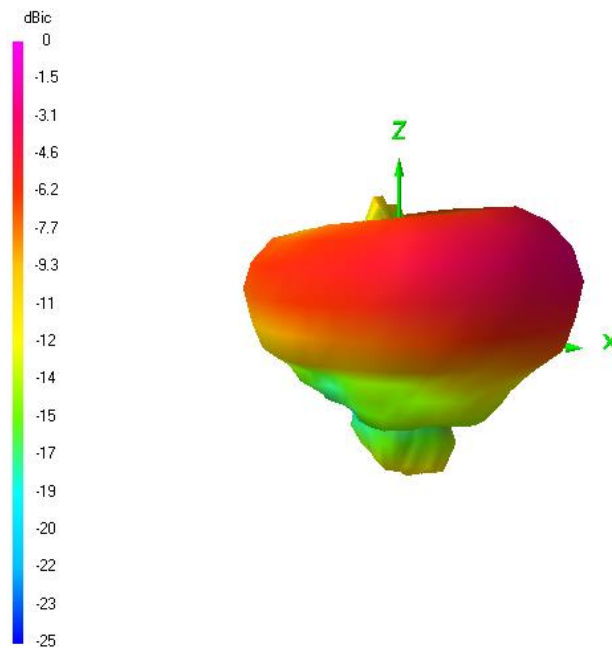
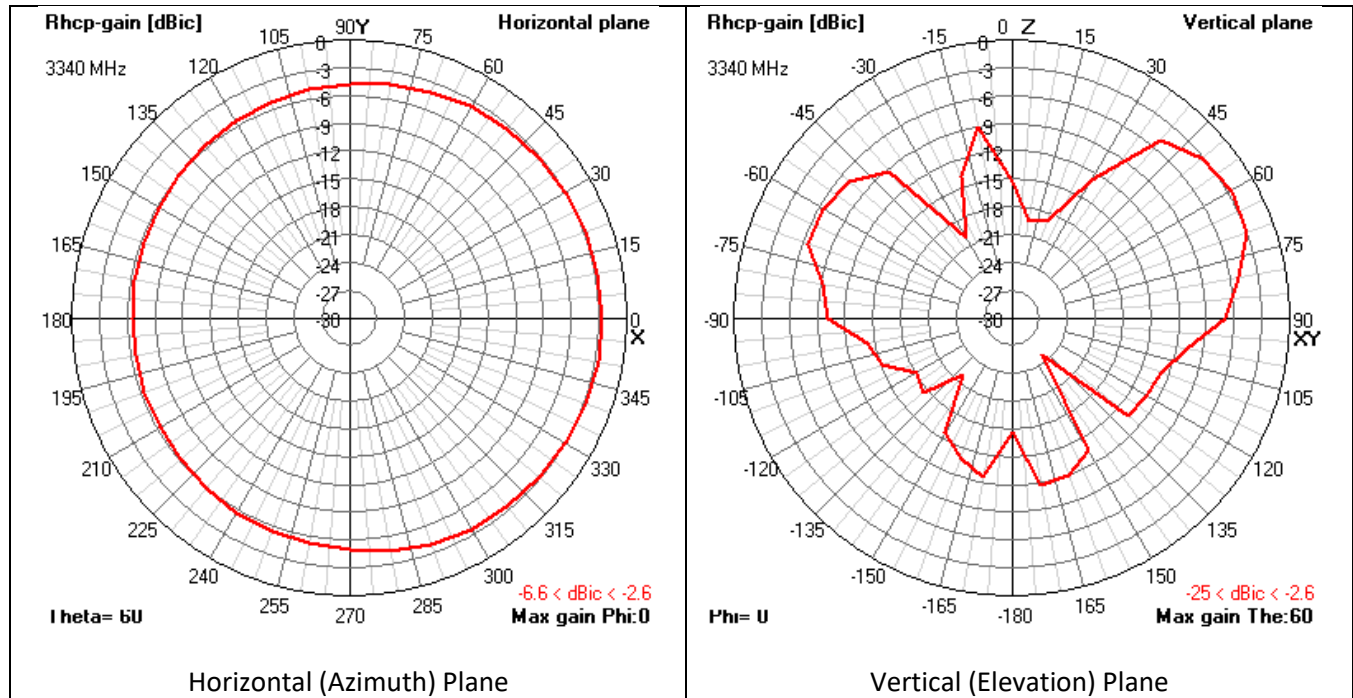
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Radiation Patterns

3340 MHz



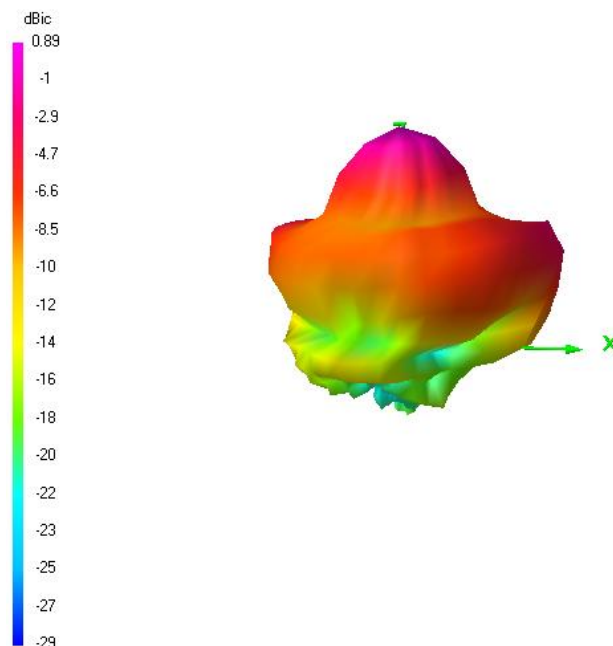
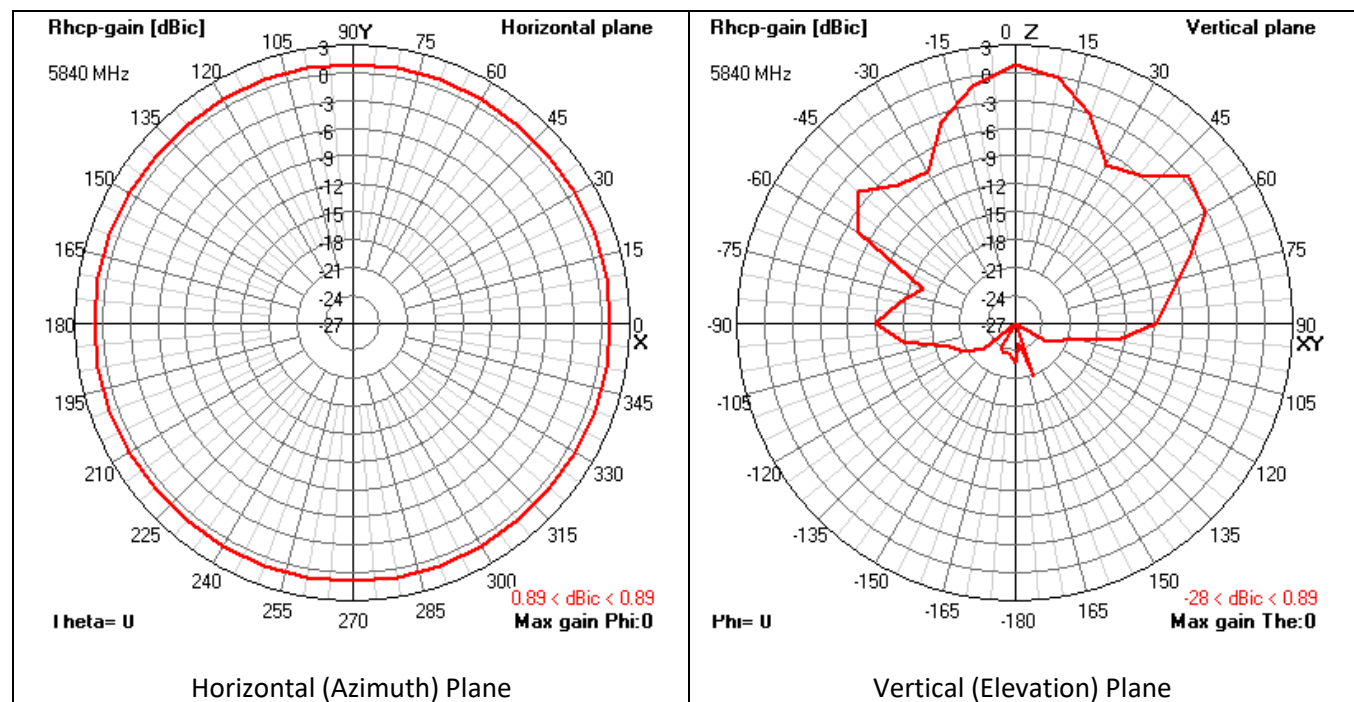
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Radiation Patterns

5840 MHz



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Installation Instructions

- Position away from:
 - CRT/TVs
 - Lighting fixtures & motors
 - Other antennas & wireless devices
 - Low-E or tinted/coated windows
 - Large vertical metal or concrete objects
- Drill a 1/2" (13mm) hole in flat horizontal surface
- Remove mounting nut and feed coax cable through hole
- Remove bottom plastic liner to expose adhesive
- Press antenna into hole and tighten nut & washer from underneath
- Optionally apply a thin bead of silicone caulk around the antenna rim

Contact Information

For the latest specifications, additional product information, worldwide sales and information about Proxicast:

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Email: support@proxicast.com

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