

ANT-121-T22

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



Applications

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

Product Features

- Vandal Resistant – Through Hole Mount
- Low Profile ~ 2.4 inches Tall
- Weatherproof
- Compatible with all 4G, 5G, FirstNet Networks
- Compatible with most Cellular Modems/Routers
- 3 – 5 dBi Peak Gain
- Omni-Directional
- SMA Male Connectors on Low-Loss 195 Coax



Ordering Information

Part No.	Description
ANT-121-T22-B-02	Black Antenna with 2 ft Coax
ANT-121-T22-B-06	Black Antenna with 6 ft Coax
ANT-121-T22-W-02	White Antenna with 2 ft Coax
ANT-121-T22-W-06	White Antenna with 6 ft Coax

Country of Origin: Taiwan
HTS Code: 8517.71.00.00
TAA Compliant: Yes

General Description

This low profile (2.4 inch tall) fixed mount omni-directional 5G external antenna provides 3 to 5 dBi of gain and supports all sub 6 GHz cellular frequency bands for AT&T, Verizon, T-Mobile, Bell, Rogers, Telus and other carriers worldwide.

Permanently mounts via a 7/8 in (20 mm) hole with internal nut. Resists vandalism with no exposed coax cable, a high impact polycarbonate radome shell and an extra thick stainless steel threaded mounting post and hardware. Completely waterproof (IP67).

Two integrated SMA male plug connectors mate with SMA female jacks found on most cellular modems and routers. Available in 2 standard coax cable lengths (2 ft, 6 ft) and black or white radomes. Lengths and colors can be customized (minimum order quantity required).

Ideal for use in vending machines, meter housings, equipment sheds, or other locations requiring a low-profile vandal resistant external antenna. Also suitable for vehicle mounting on buses, vans, trucks or other mobile installations. Completely waterproof (IP67).

* 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)
Peak Gain	3-5 dBi frequency dependent
Radiation Pattern	Omni-Directional
VSWR	< 2.0:1 in band
Inter-element Isolation	-8.5 dB min in band
Input Impedance	50 Ohm
Polarization	Vertical
Max Input Power	50 W
DC Grounded	No
Ground Plane	8 inch (20 cm) diameter min

Mechanical Specifications

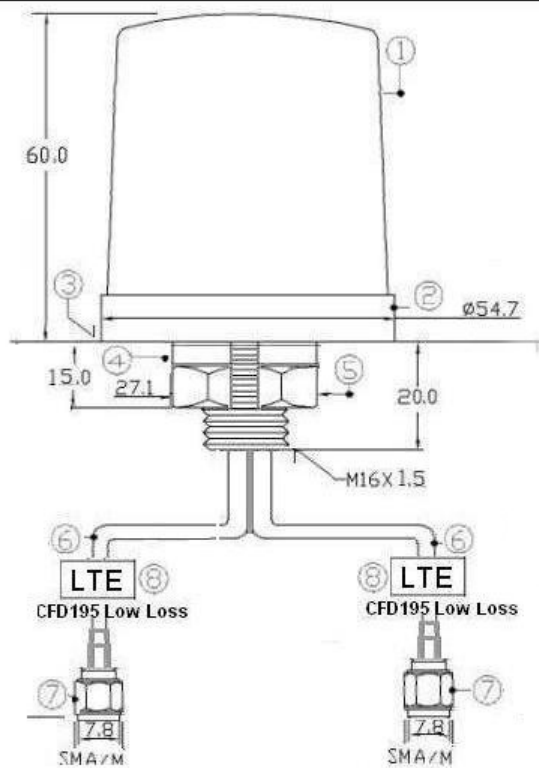
Parameter	Rating
Connector Type	2x SMA Male (plug)
Cable Type	Low-loss CFD195 coax – available in 2 ft & 6 ft lengths
Height	Radome: 2.4 inches (60 mm) above mounting surface Overall: 3.4 inches (84 mm)
Diameter	Radome: 2.2 inches (54.7 mm) at base Mounting post: 7/8 inches (20 mm) x 1.5 mm thread
Weight	4.6 oz (130 g)
Materials	Radome: UV Stabilized Polycarbonate Connectors: Gold-Plated Brass Mounting Post & Hardware: Stainless Steel Gasket: Rubber RoHS Compliant
Antenna Color	Black or White
Operating Temperature	-40°C to +80°C
Environmental Rating	IP67 (waterproof)
Shock (Drop Test)	100 cm drop on concrete

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

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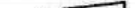
Mechanical Dimensions



No	NAME	MATERIAL	FINISH	QTY
01	Top Plastic Shell	PC	Black	1
02	Base Housing	PC	Black	1
03	Rubber Adhesive	Rubber	Gray	1
04	Spring Washer (Groove)	Stainless steel		1
05	NUT M16x1.5P (Groove)	Stainless steel		1
06	CFD195 Low Loss Cable	PVC	Black	2
07	SMA Male S/T (CFD195)	Brass	Au Plated	2

ROHS

IP67 Waterproof

 Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
					M/M			1
	TOLERANCE	X, XX±0, 15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS		APPEARANCE		Jack		Jimmy	Jimmy

ANT-121-T22

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



Additional Product Images



Dual SMA Male Connectors

Through Hole Screw Mount



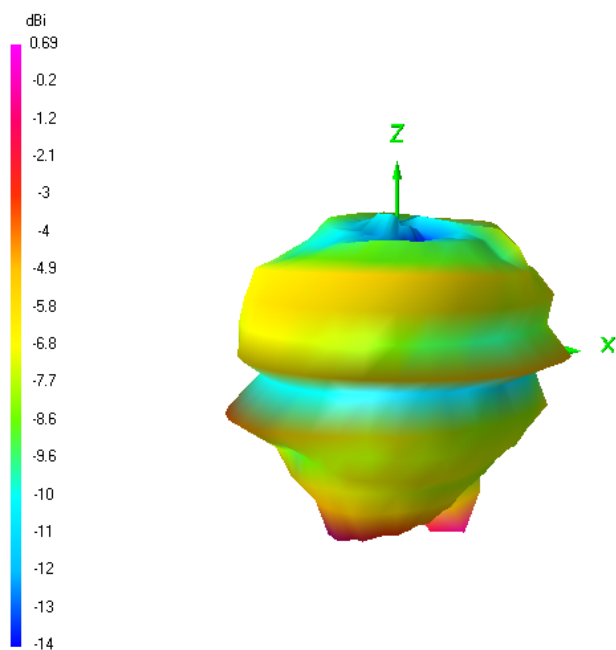
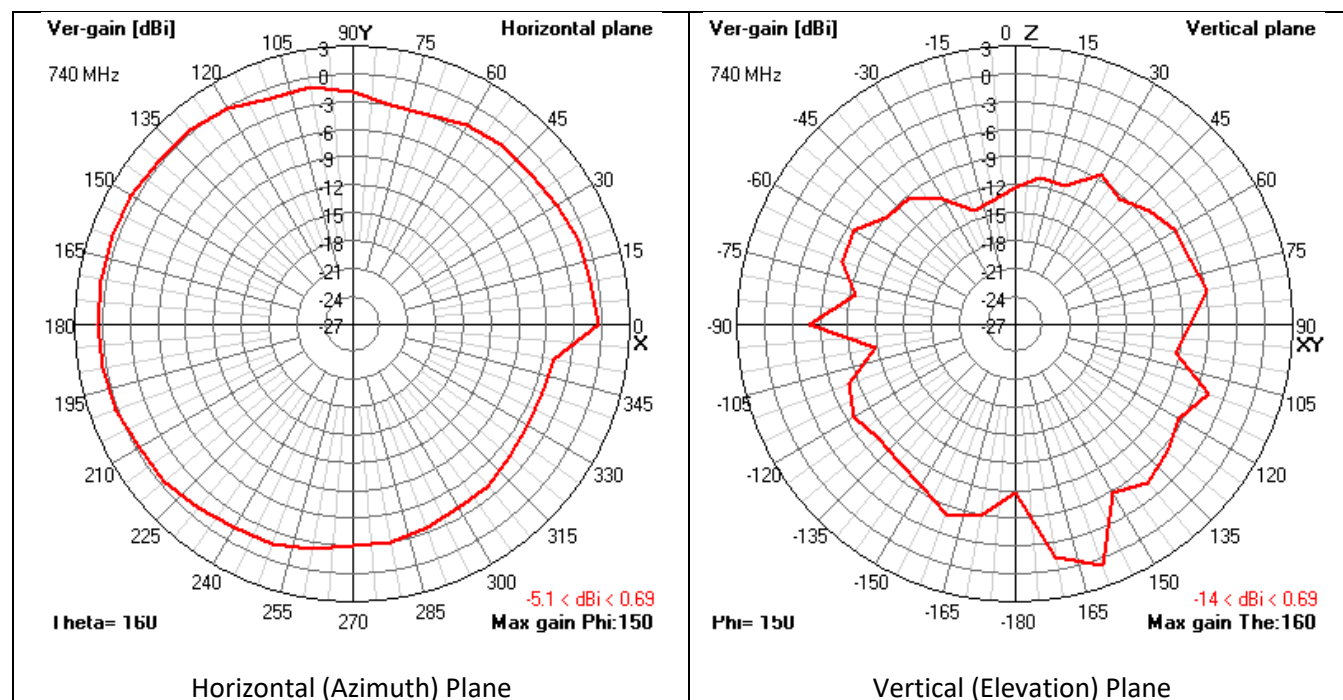
ANT-121-T22

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



Radiation Patterns

740 MHz



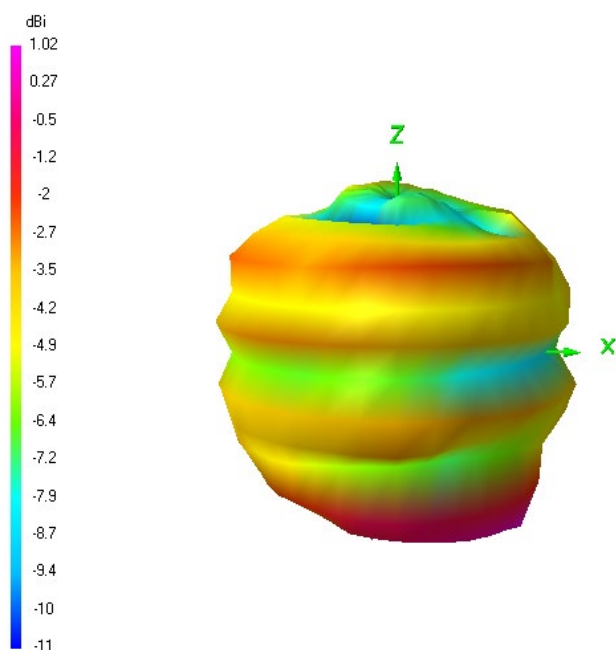
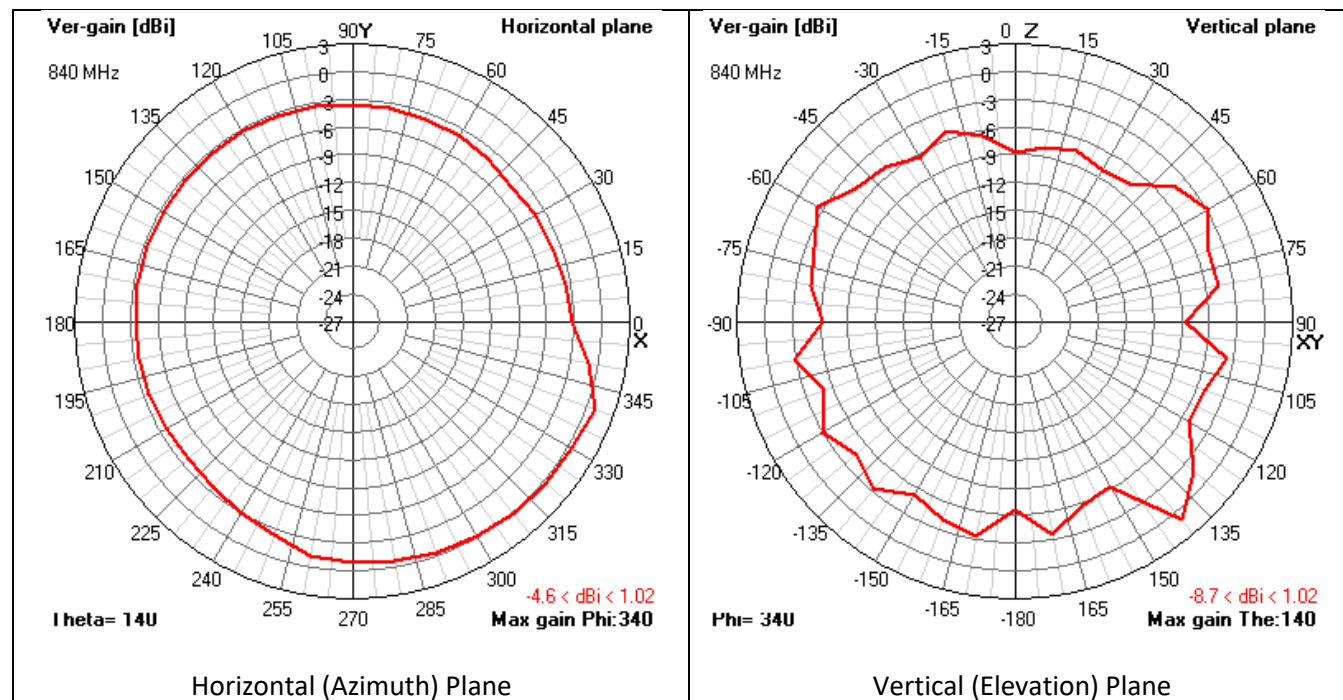
ANT-121-T22

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



Radiation Patterns

840 MHz



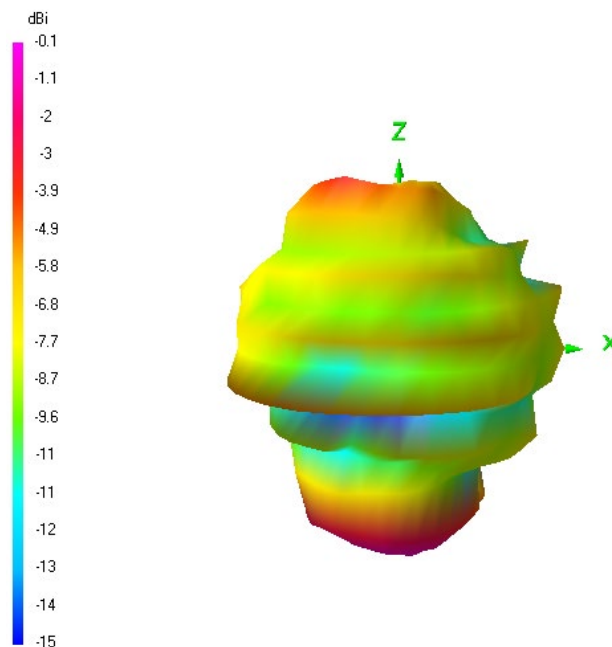
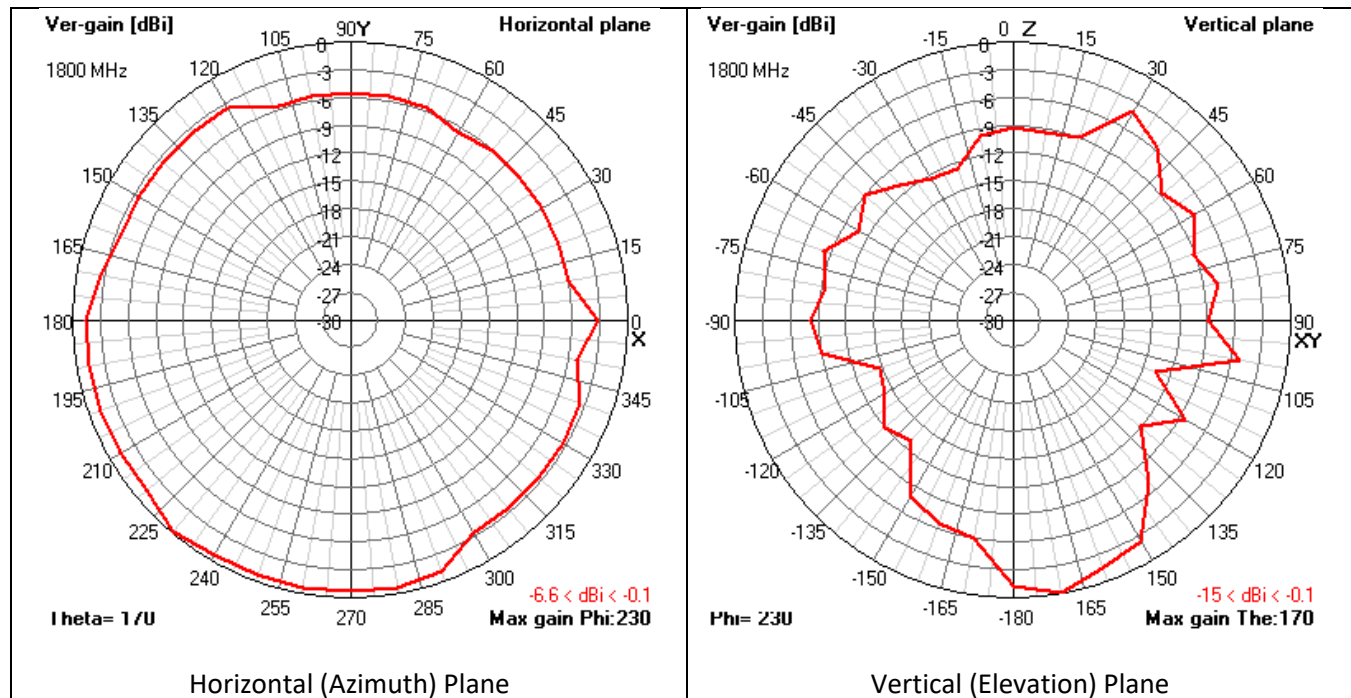
ANT-121-T22

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Radiation Patterns

1800 MHz



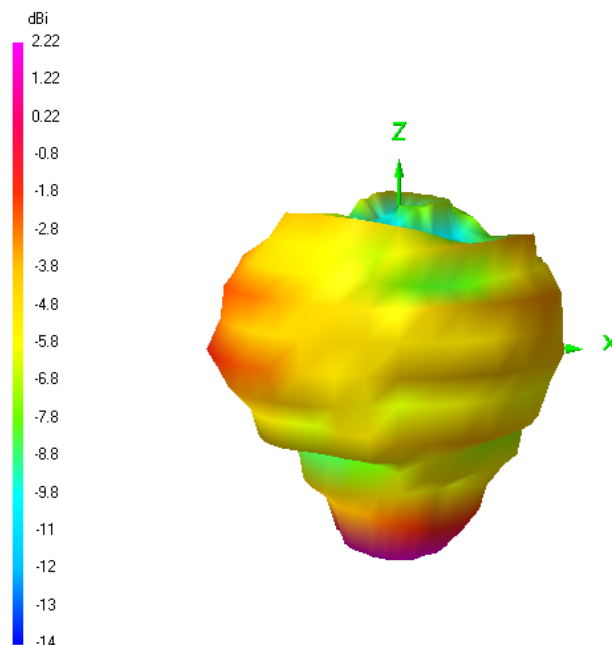
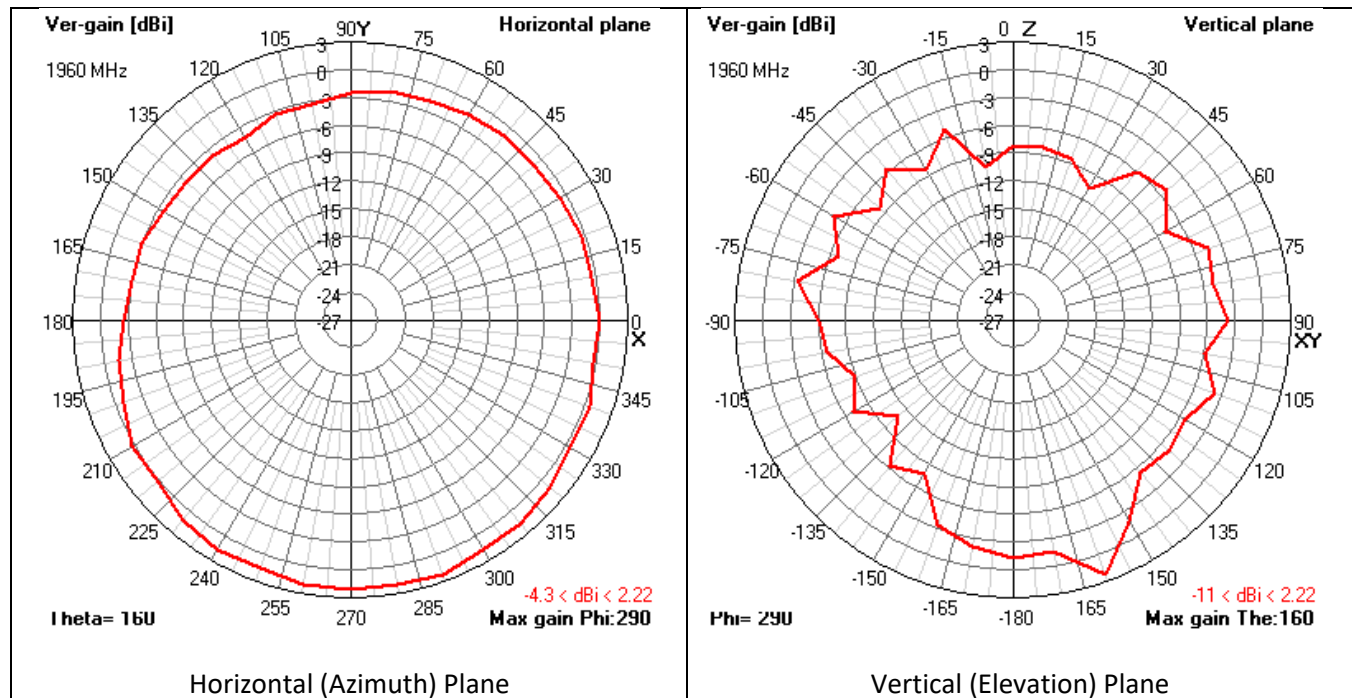
ANT-121-T22

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Radiation Patterns

1960 MHz



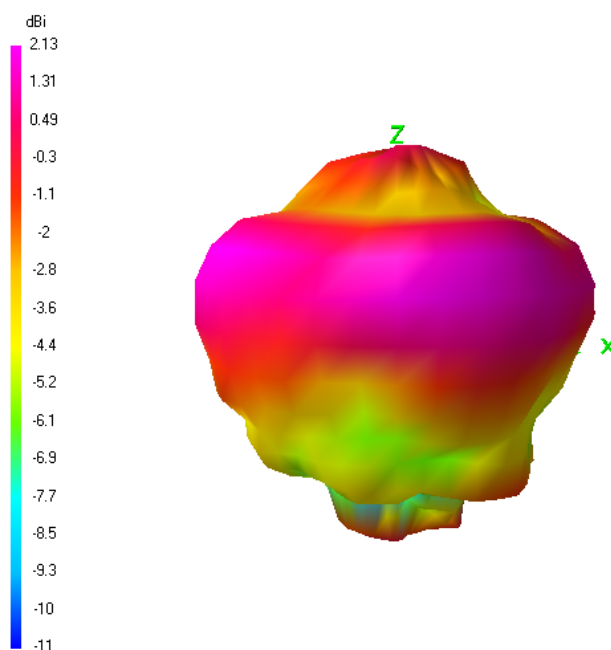
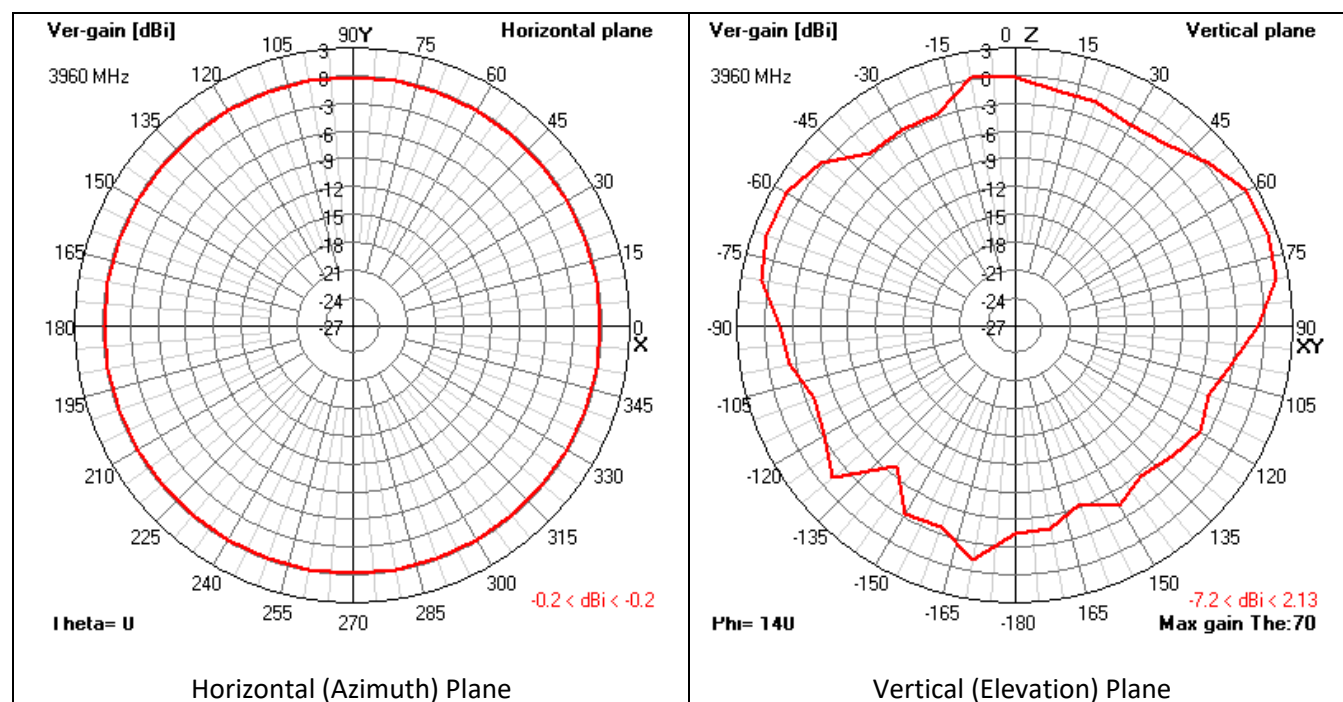
ANT-121-T22

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Radiation Patterns

3960 MHz



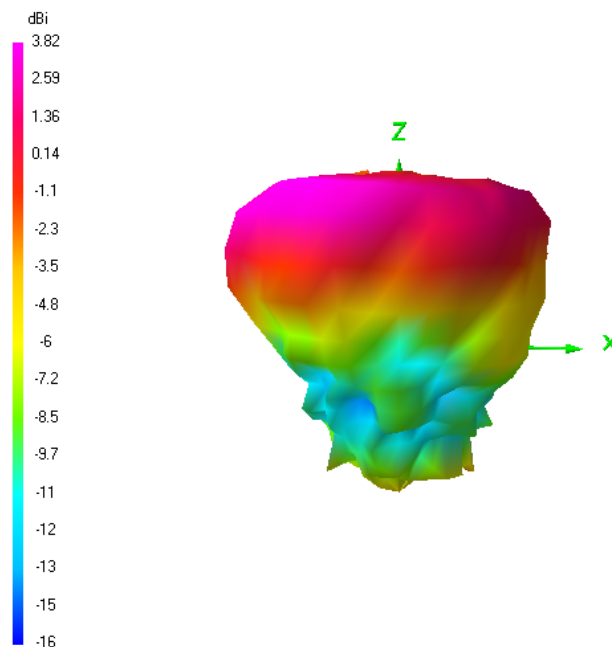
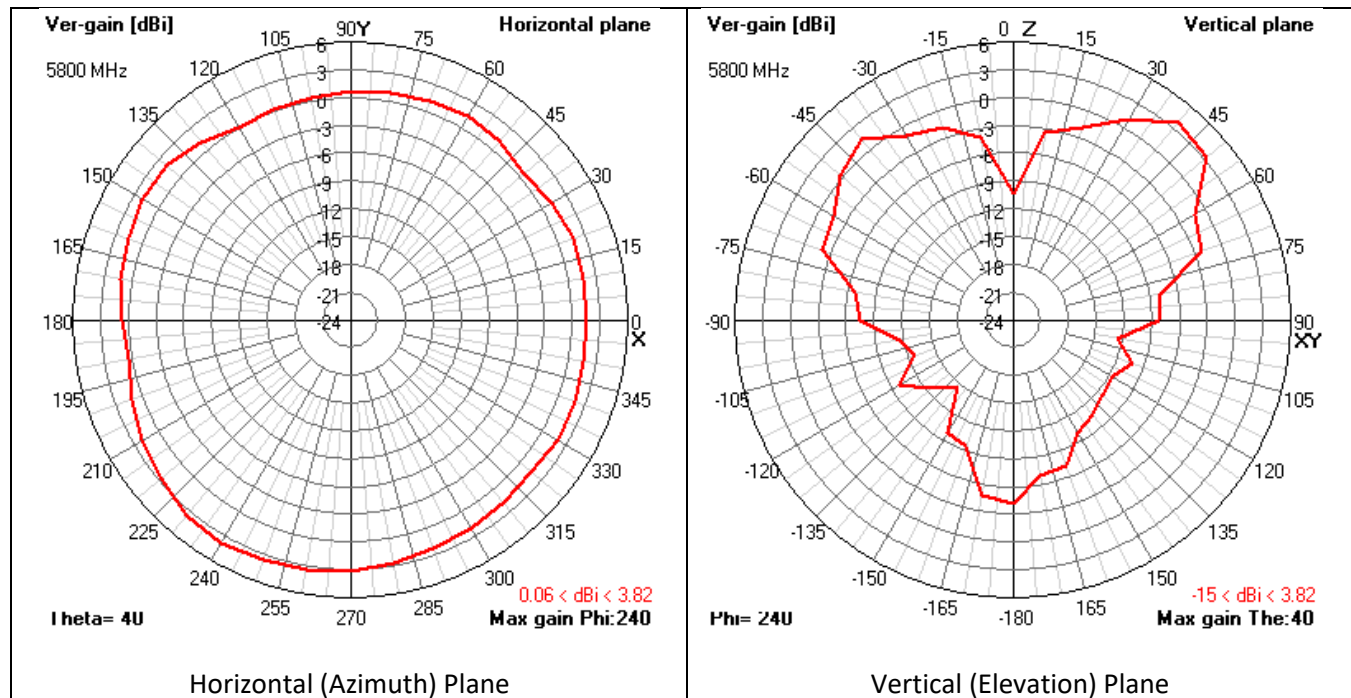
ANT-121-T22

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Radiation Patterns

5800 MHz



ANT-121-T22

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- 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 7/8" (20mm) hole in flat horizontal surface
- Remove mounting nut and feed coax cable through hole
- Press antenna into hole and tighten nut & washer from underneath
- Optionally apply a thin bead of silicone caulk around the antenna rim
- Keep coax lead cable as short as possible & weatherproof all outdoor connectors

Contact Information

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

Web: www.proxicast.com **Tel:** 1-877-777-7694

Email: sales@proxicast.com 1-412-213-2477

Proxicast • 312 Sunnyfield Drive, Suite 200 • Glenshaw, PA 15116 USA

For technical questions and application information:

Email: support@proxicast.com

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