

ANT-120-003

Ultra Low-Profile 3G/4G/LTE Omni-Directional Antenna



Applications

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

Product Features

- Extremely Low Profile ~ 0.6 in. high x 1.8 in dia.
- Hole / Screw Mounted
- Weatherproof, Compact & Light-weight
- Vandal Resistant – no exposed cable
- SMA Male Connector
- Compatible with N. American Cellular Networks
- Compatible with most Cellular Modems/Routers



Ordering Information

Part No.	Description
ANT-120-003	Proxicast Ultra Low-Profile 3G/4G/LTE Omni-Directional 2 dBi Screw Mount Antenna with 6 ft coax & SMA male
ANT-120-004	Proxicast Ultra Low-Profile 3G/4G/LTE Omni-Directional 2 dBi Screw Mount Antenna with 18 inch coax & right angle SMA male

General Description

This extremely low profile (< 0.6 inches tall) fixed mount omni-directional antenna provides 2 dBi of gain and works on all 3G & 4G cellular frequency bands worldwide (all CDMA, GSM, WCDMA/UMTS and LTE carriers - except 2600-2700 MHz European LTE).

Permanently mounts via a 1/2 in. (12 mm) hole with locking internal nut. Resists vandalism with no exposed coax cable. Includes low-loss coax fed through center mounting post.

Designed for M2M applications such as vending machines, meter housings, equipment sheds, or other locations requiring an inconspicuous low-profile external antenna. Can also be vehicle mounted for buses, vans, trucks or other mobile installations.

Integrated SMA male plug connector mates with SMA female jack on modems, routers, etc.

For MIMO applications mount 2 identical antennas at least 22 inches apart.

This antenna is also available for Wi-Fi frequencies (2.4/5.8 GHz). See ANT-130-005.

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Electrical Specifications

Parameter	Rating
Frequency Range	698~960 MHz 1710~2170 MHz
Peak Gain	2 dBi
VSWR	≤2.0:1
Input Impedance	50 Ohm
Polarization	Vertical
Max Input Power	20 W
Ground Plane	Not Required
DC Grounded	No

Mechanical Specifications

Parameter	Rating
Connector Type	SMA Male (plug)
Cable Length	ANT-120-003: 6.7 ft (2 m) of low-loss RG174 coax ANT-120-004: 1.5 ft (0.5 m) of low-loss RG174 coax
Mounting	Screw Mount via 0.5 inch (12mm) hole
Dimensions	0.59 in (15 mm) High 1.8 in (46 mm) Diameter
Materials	Radome: UV stabilized Polycarbonate plastic Connector: Brass Mounting Post: Nickel 3M Adhesive Pad
Antenna Color	Black
Weight	1 oz (28 g) excluding coax
Operating Temperature	-30°C to +75°C

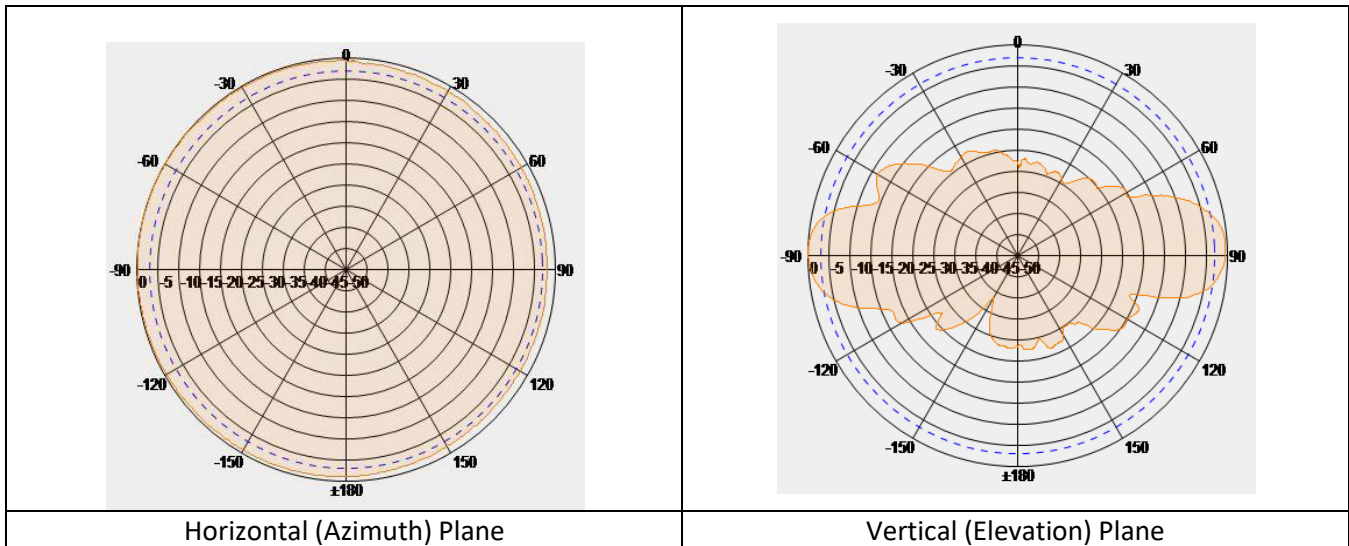
Operation of this device outside the parameter ranges given above may cause permanent damage.

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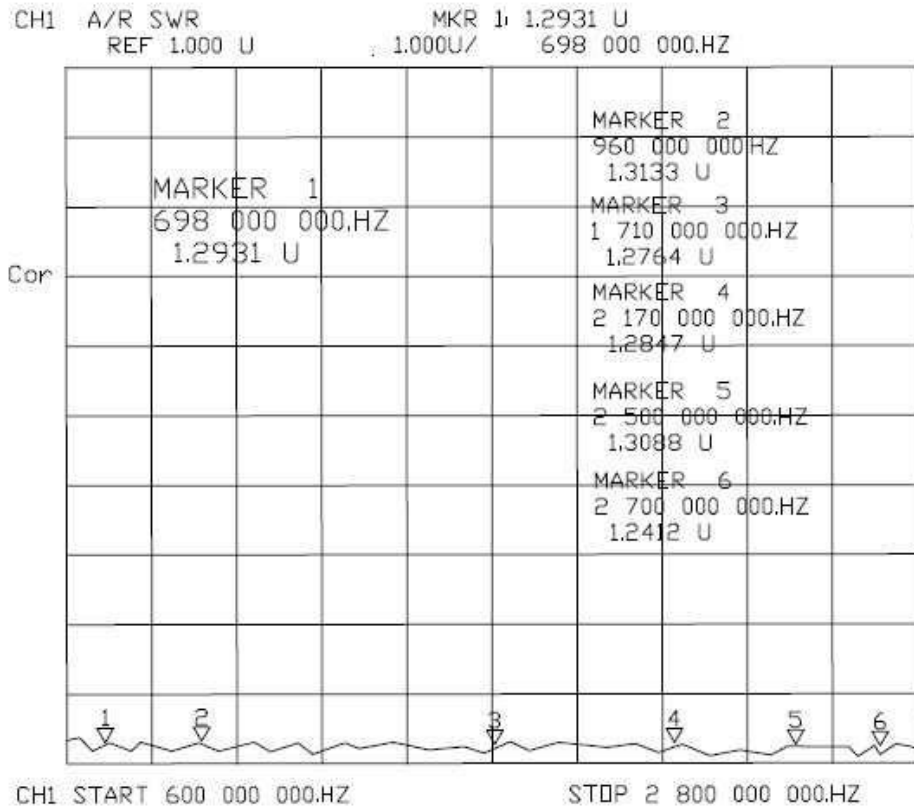
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Radiation Patterns



VSWR



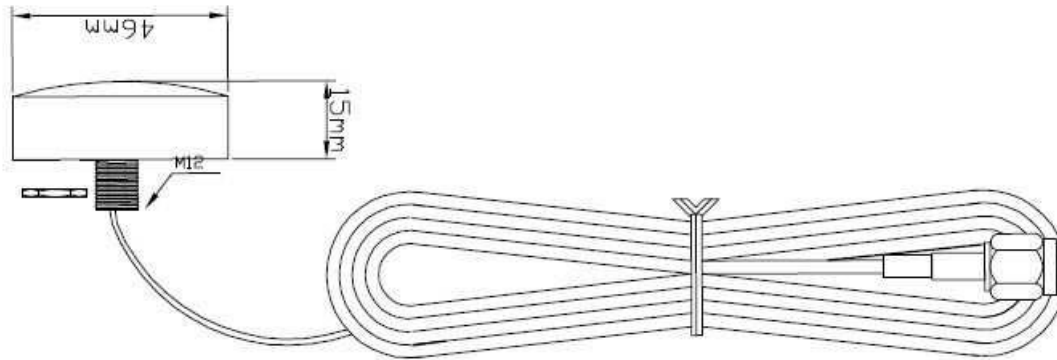
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Mechanical Dimensions

Dimensions in millimeters



Product Images



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Installation Instructions

- Position away from:
 - CRT/TVs
 - Lighting fixtures
 - Motors
 - Other wireless devices
 - Large vertical metal or concrete objects
 - Low-E or tinted/coated windows
- Drill a 0.5 inch (12 mm) diameter hole in a horizontal flat surface
- Remove mounting nut & washer and feed coax cable through hole
- Remove bottom plastic liner to expose adhesive
- Press antenna into hole and tighten nut & washer from underneath

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

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For technical questions and application information:

Email: support@proxicast.com

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