

# ANT-120-002H

3G/4G/LTE 3-5 dBi Omni-Directional Blade Antenna



## Applications

- 3G/4G Modems
- 3G/4G Routers
- 4G Cameras
- M2M Installations
- SCADA / Telemetry / PLCs
- General Purpose Cellular Antenna



## Product Features

- Wide-Band Operation
- Compatible with Worldwide Cellular Networks
- Compatible with most Cellular Modems/Routers
- SMA Male Connector
- Rotates 360°
- Bends 90°
- Optional Magnetic Mounting Base

## Ordering Information

Part No.	Description
ANT-120-002H	Proxicast 3G/4G/LTE 3-5 dBi Omni-Directional Universal Blade Antenna - SMA Male

## General Description

The Proxicast 3G/4G Universal Blade is a unique cellular dipole antenna that provides medium-gain on all 2G/3G (CDMA / GSM), and 4G (LTE / HSPA+) frequency bands (700-2700 MHz) currently in use by cellular network operators such as Verizon Wireless, AT&T Wireless, T-Mobile, Rogers, Bell Mobility and Telus as well as most other cellular operators worldwide.

The flat "blade-shaped" 3G/4G antenna is 6.2 inch (157 mm) long and has an omni-directional radiation pattern that delivers up to 5 dBi of gain with an integrated ground-plane. The polycarbonate antenna swivels 90 degrees and rotates 360 degrees for optimal positioning and maximum signal reception and has an integrated SMA male plug connector which mates with the SMA female jack on many popular cellular modems and routers. This antenna is an excellent general purpose cellular antenna suitable for any mobile or stationary application.

Compatible with all SMA-based equipment including modems and routers from Cisco, Cradlepoint, Digi, Pepwave, Proxicast, Sierra Wireless, Sixnet/Red Lion and many others.

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

For magnetic mounting, see optional base part number ANT-120-MB3 or ANT-120-MB9.

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## Electrical Specifications

Parameter	Rating
Frequency Range	700 - 2700 MHz
Peak Gain	3 - 5 dBi depending on frequency
VSWR	≤ 2.0:1
Input Impedance	50 Ohm
Polarization	Vertical
Max Input Power	50 W
Ground Plane	Not Required
DC Grounded	No

## Mechanical Specifications

Parameter	Rating
Connector Type	SMA Male (plug)
Mounting	Screw-on
Dimensions	6.2 in (157 mm) Long 0.83 in (21 mm) Wide
Materials	Radome: UV stabilized polycarbonate plastic Connector: Brass RoHS Compliant
Antenna Color	Black
Weight	0.66 oz (18.6 g)
Operating Temperature	-30°C to +75°C

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

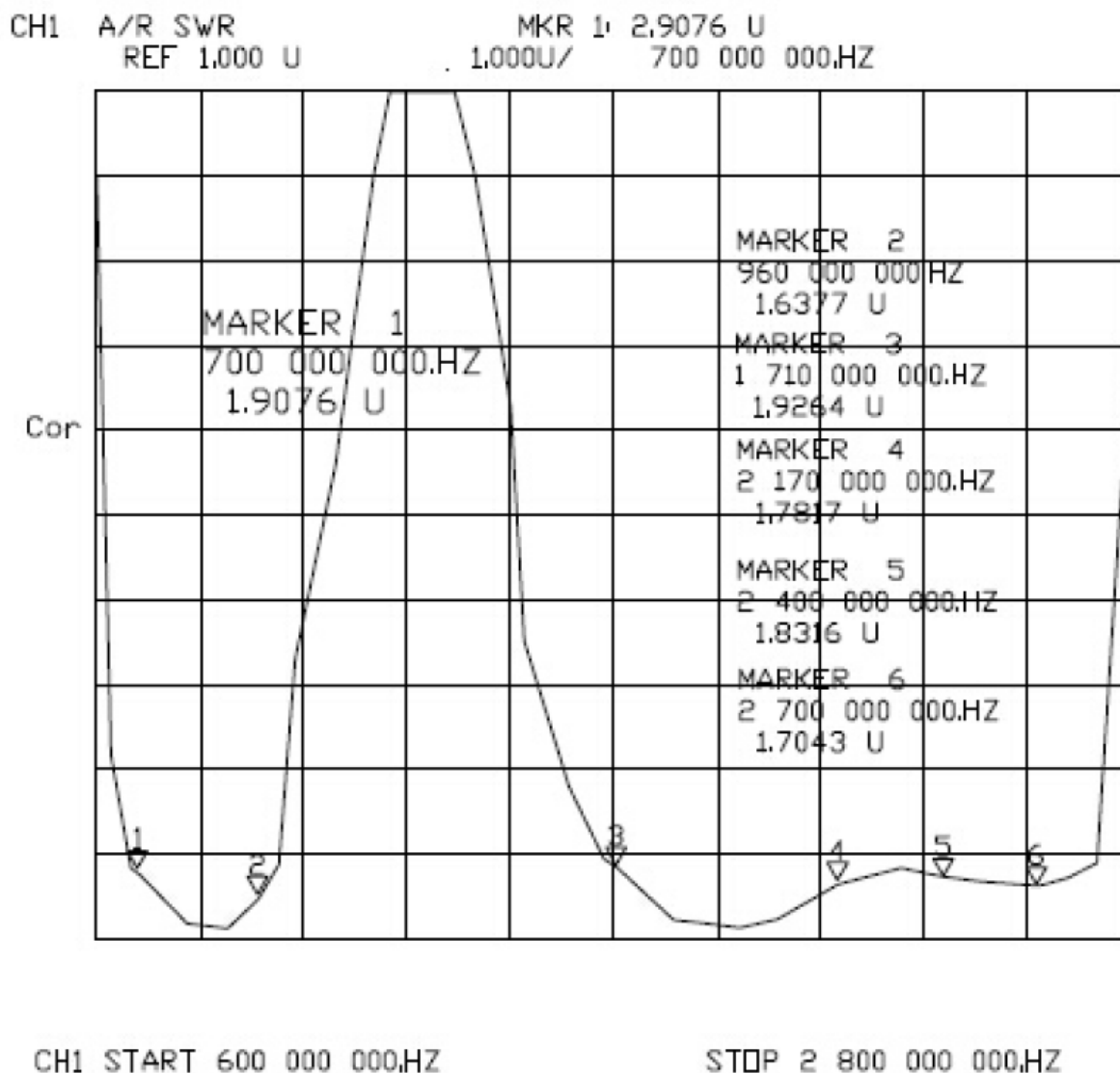
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## Characteristic Curve

### VSWR



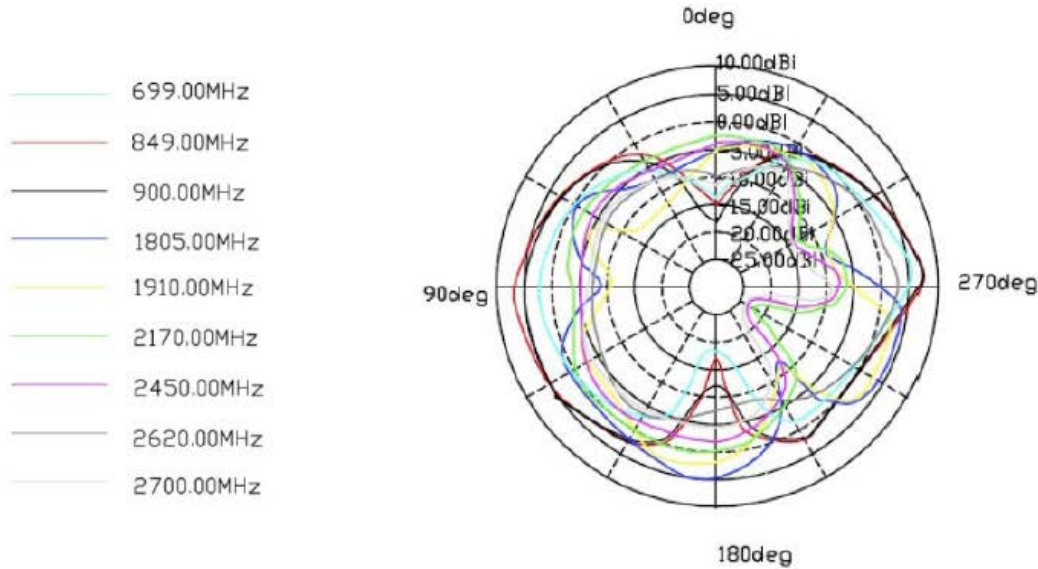
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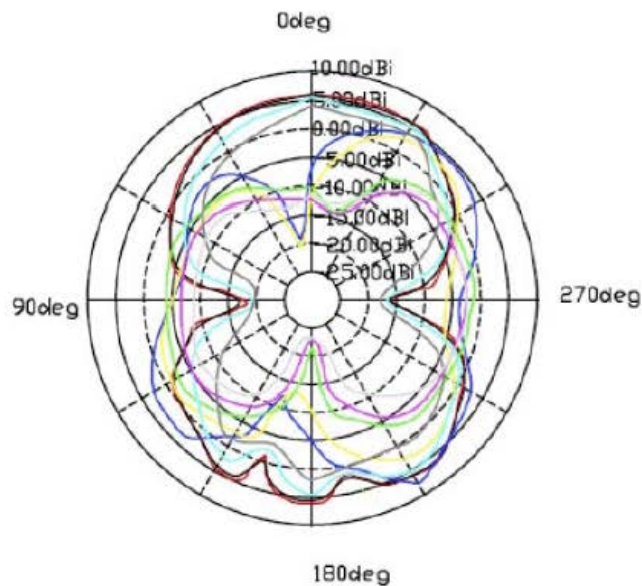


## Radiation Patterns

Horizontal Plane



Vertical Plane



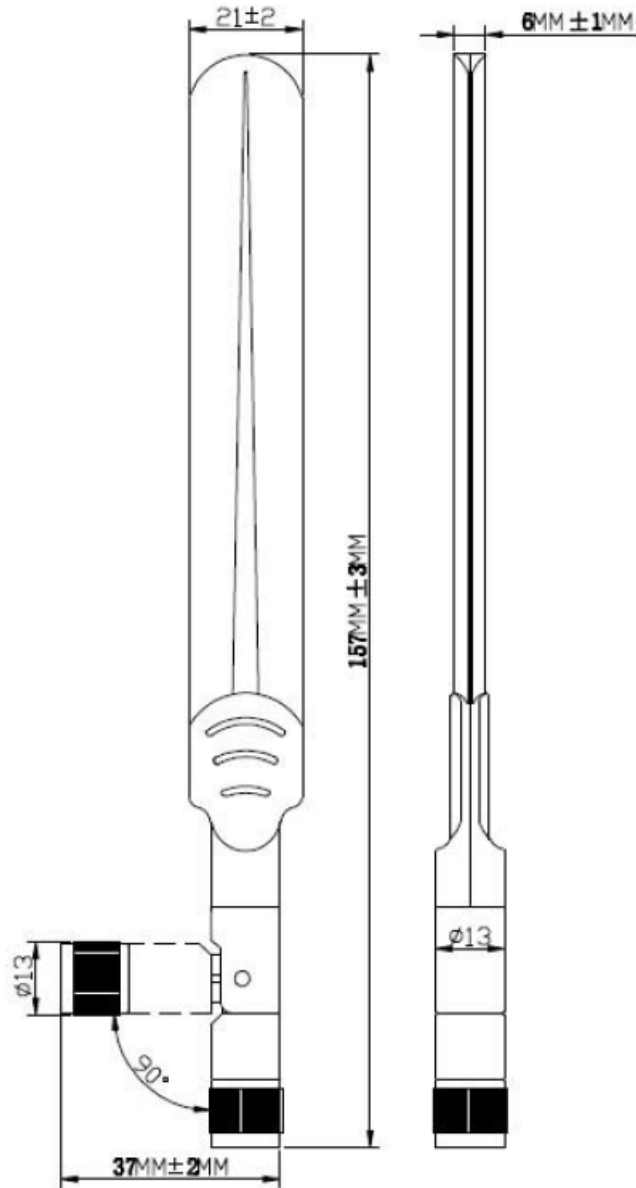
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## Mechanical Dimensions

Dimensions in millimeters



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## Product Images



## Installation Instructions

- Orient antenna vertically
- Position away from:
  - CRT/TVs
  - Lighting fixtures & motors
  - Other antennas & wireless devices
  - Low-E or tinted/coated windows
  - Large vertical metal or concrete objects
- Fully tighten antenna connector to modem's antenna jack
- Rotate to find strongest signal
- Use 2 identical antennas if modem supports diversity or MIMO
- Not intended for permanent outdoor use unless weather sealed

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**3G/4G/LTE 3-5 dBi Omni-Directional Blade Antenna**



## Contact Information

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

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Email: [sales@proxicast.com](mailto:sales@proxicast.com) 1-412-213-2477

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For technical questions and application information:

Email: [support@proxicast.com](mailto:support@proxicast.com)

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