

Marine



HD

HASCALL-DENKE

NOTE D
TRAFFIC SEPARATION SCHEME
One-way traffic lanes overlaid on this chart are
RECOMMENDED for use by all vessels traveling
between the points involved. They have been designed
to aid in the prevention of collisions at the approach to
Nantuxet Bay and Buzzards Bay but are not intended
in any way to supersede or alter the applicable Rules
of the Road. Separation zones are intended to separate
inbound and outbound traffic and to be free of ship traffic.
Separation zones should not be used except for
crossing purposes. When crossing traffic lanes and
separation zones use extreme caution.

ANCHORAGE AREAS
110.140, 110.450 (see note A)
Limits and design of anchorage areas are shown
GENERAL ANCHORAGES (E) (F) (L) (M)
SPECIAL ANCHORAGE (2)

CAUTION
Only marine radio beacon signals have been
broadcast for this area. Lighthouses and other
navigation aids can be found in the U.S. Coast
Guard Light Lists and General Mapping
Agency Publication 117.
Radio direction finder bearings to commercial
broadcasting stations are subject to error
and should be used with caution.
Station positions are shown
○ (Accurate location) ◐ (Approximate location)

Broadband Marine Antenna



The MADP30X17 is a broadband dipole antenna designed to be used with military, private, or commercial applications where reliability is needed most. This antenna works with all radios within the 30-512 MHz band.

The antenna has a band pass covering 30-512 MHz with a single input (dual input available) at a power level of 50 Watts. A VSWR of less than 3.0:1 throughout the 155-512 MHz and a maximum of 3.5:1 between 30-90 MHz provides an efficient match to all modern military transceivers.

Being “ground independent”, this antenna can be used on all types of structures (metal or non-metal) with no degradation in performance.

The upper whip may be removed for lower physical signature (lower height) with minimal degradation in electrical performance in the lower frequencies.

- **30-512 MHz Continuous**
- **50 Watts**
- **Robust Construction**
- **Low VSWR.**
- **Ground Independent**

Mounting bracket shown not included.



Broadband Marine Antenna

Specifications

ELECTRICAL:

Frequency Range: 30-512 MHz

Gain:
-6 dBi @ 30 MHz
2 dBi @ 88 MHz
5 dBi @ 116 MHz
3 dBi @ 512 MHz

VSWR: < 3.5:1 Max
(Except at Crossover Band)

Input Impedance: 50 Ω Nominal

Power: 50 Watts

Polarization: Vertical

Radiation Pattern:
Azimuth: 360°
Elevation: 90°

Input Connector: Type N Female

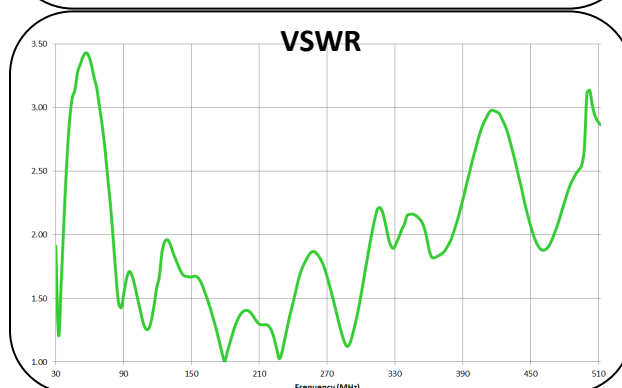
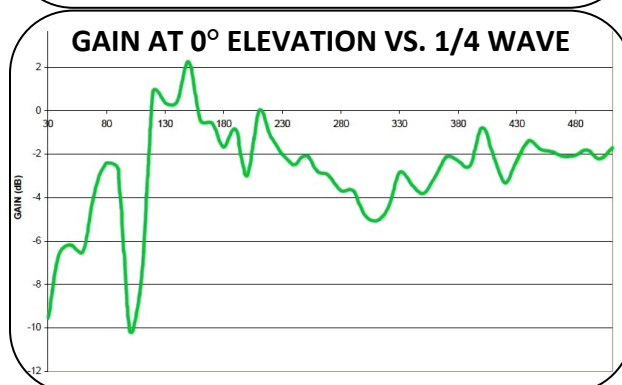
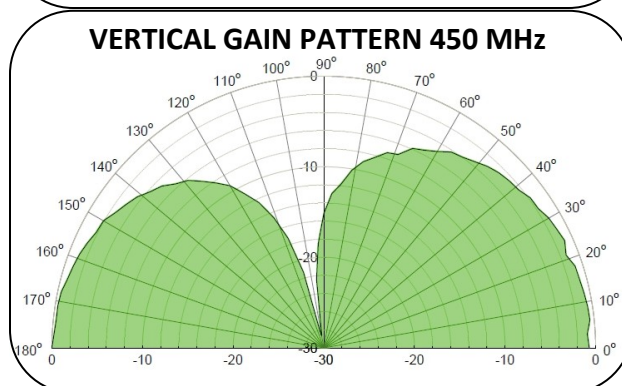
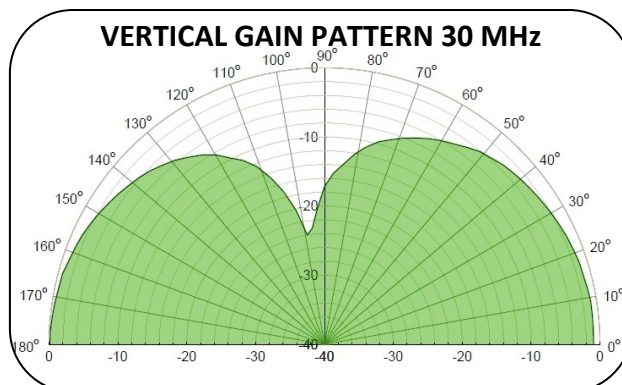
MECHANICAL:

Overall Height: 92 in. (2.34 m)

Net Weight: 8 lb. (3.63 kg)

Color: Black/Green/Tan/Grey

Mounting: NATO Standard Four .5" (12.7 mm)
Holes, equally spaced on a 4.5"
(114.3 mm) Dia. BHC



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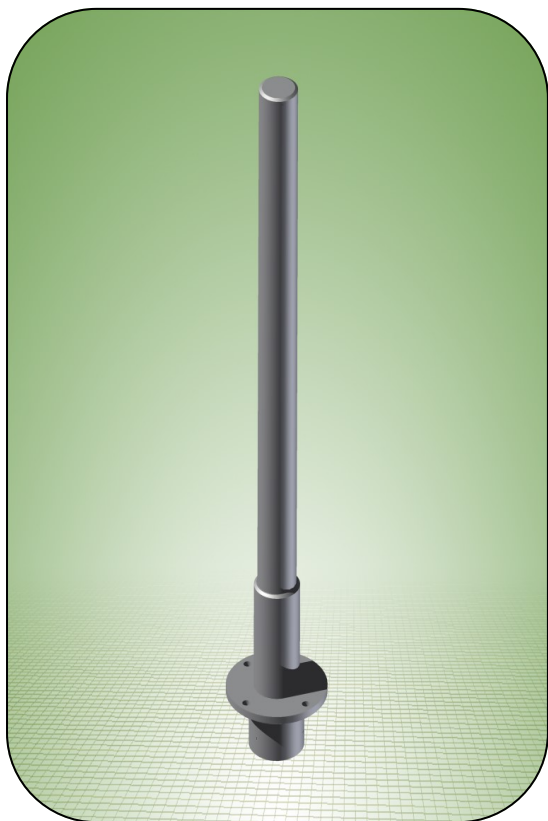
****Specifications are subject to change without prior notice.**



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(1Y06800)

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Marine Broadband Antenna



The MADP30X17AB broadband antenna designed to be used with military, private, or commercial applications where reliability is needed most. This antenna works with all radios within the 30-512 MHz band.

Robust and tough, this antenna is housed in a thick fiberglass radome double reinforced at the base and is constructed from corrosion resistant materials for reliability in the harshest environments.

- **Optimum Performance with Minimum Radiator Length**
- **Robust Construction**



Marine Broadband Antenna

Specifications

ELECTRICAL:

Frequency Range:	30-512 MHz
Gain:	-15 dBi @ 30 MHz -2 dBi @ 88 MHz 5 dBi @ 116 MHz 3 dBi @ 512 MHz
VSWR:	3.5:1 Max @ 30-90 MHz 2.5:1 Max @ 155-512 MHz
Input Impedance:	50 Ω Nominal
Power:	50 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	40 in. (1.02 m)
Net Weight:	8 lb. (3.63 kg)
Color:	Black/Green/Tan/Grey
Mounting:	NATO Standard Four .5" (12.7 mm) Holes, equally spaced on a 4.5" (114.3 mm) Dia. BHC

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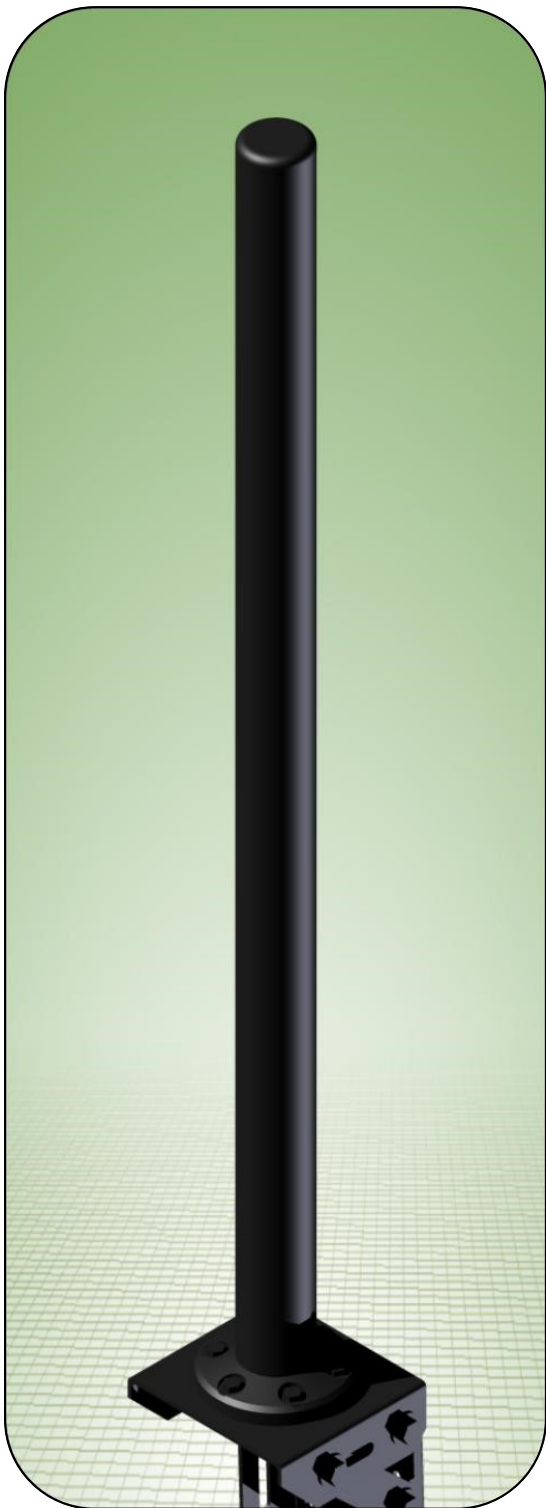
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Marine Broadband Antenna



The MAMP100X4 is a ground independent monopole antenna designed for marine operations. The UM002 mounting bracket facilitates mounting on all sloping surfaces from 0° (horizontal) through 90° (vertical).

The antenna and mount are designed to meet severe marine environments. Optimum compromises have been made in the antenna “matching” to permit acceptable performance under a wide variety of “near field conditions”.

The radiator is encased in a high-impact fiberglass tube which is foam-filled for stability and strength. The base is aluminum, anodized to MIL-A-0625. For corrosive and water protection the antenna is overall coated with Prolane-T flat black two part polyurethane.

UM002 Mounting Bracket sold separately.



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Marine Broadband Antenna

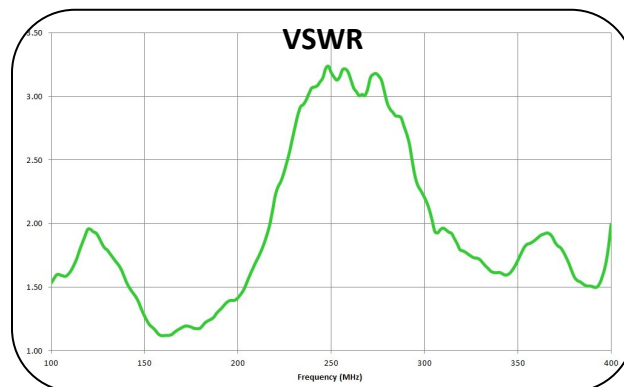
Specifications

ELECTRICAL:

Frequency Range:	100-400 MHz
Gain:	Unity
VSWR:	< 2.5:1 Typical 3.5:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	50 Watts CW & PEP
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	37 in. (0.94 m)
Net Weight:	3 lb. (1.36 kg)
Color:	Black/Green/Tan/Grey
Mounting:	Six 1/4" (6.35 mm) holes equally spaced on a 3 1/16" (77.79 mm) diameter circle.



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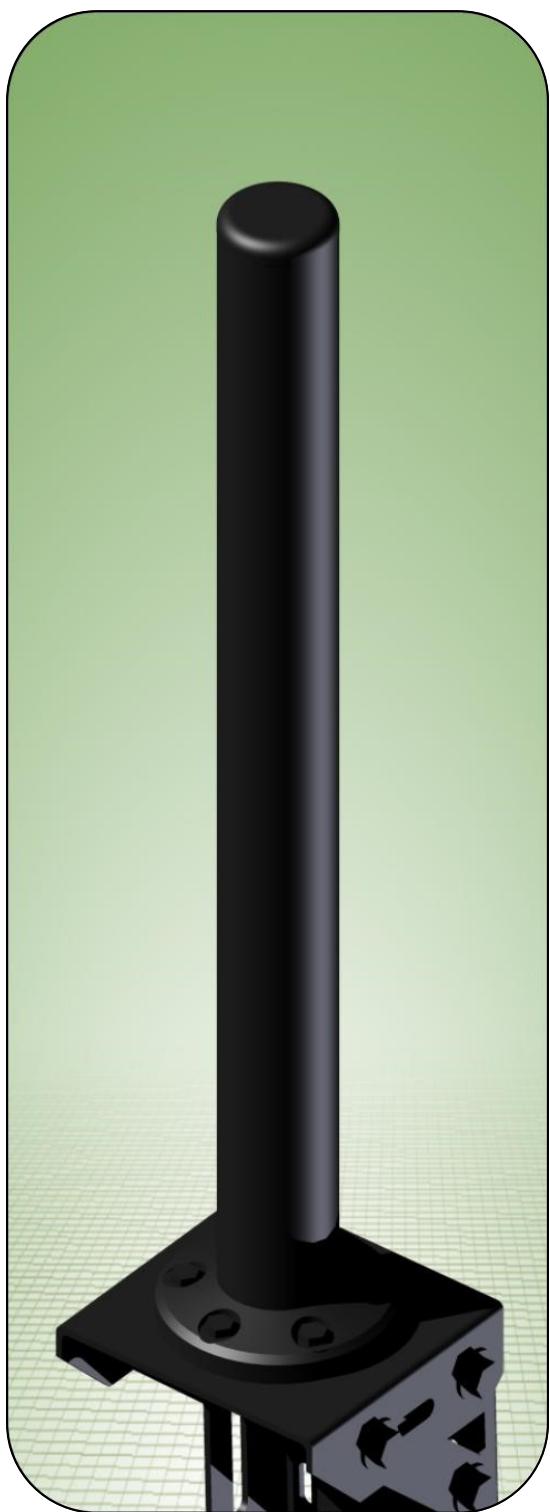
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Marine Broadband Antenna



The MAMP100X4AB is a ground independent monopole antenna designed for marine operations. The UM002 mounting bracket facilitates mounting on all sloping surfaces from 0° (horizontal) through 90° (vertical).

The antenna and mount are designed to meet severe marine environments. Optimum compromises have been made in the antenna “matching” to permit acceptable performance under a wide variety of “near field conditions”.

The radiator is encased in a high-impact fiberglass tube which is foam-filled for stability and strength. The base is aluminum, anodized to MIL-A-0625. For corrosive and water protection the antenna is overall coated with Prolane-T flat black two part polyurethane.

UM002 Mounting Bracket sold separately.



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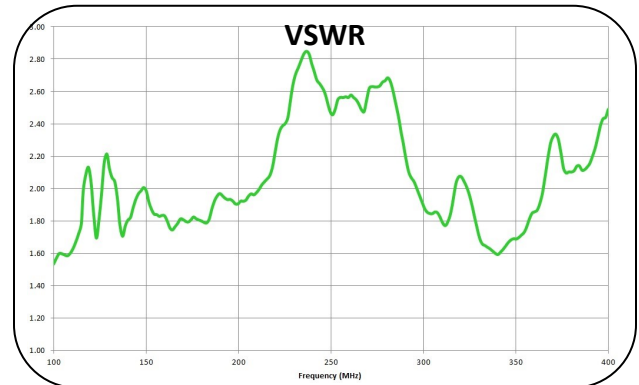
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Marine Broadband Antenna

Specifications

ELECTRICAL:

Frequency Range:	100-400 MHz
Gain:	Unity
VSWR:	< 2.5:1 Typical 3.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	50 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	Type N Female



MECHANICAL:

Overall Height:	20 in. (0.51 m)
Net Weight:	4 lb. (1.81 kg)
Color:	Black/Green/Tan/Grey
Mounting:	Six 1/4" (6.35 mm) holes equally spaced on a 3 1/16" (77.79 mm) diameter circle.
Operational Temp:	-40° to 122° Fahrenheit -40° to 50° Celsius
Wind Load:	65 Mph(100 Kph)
Built to Meet MIL-STD-810 F	

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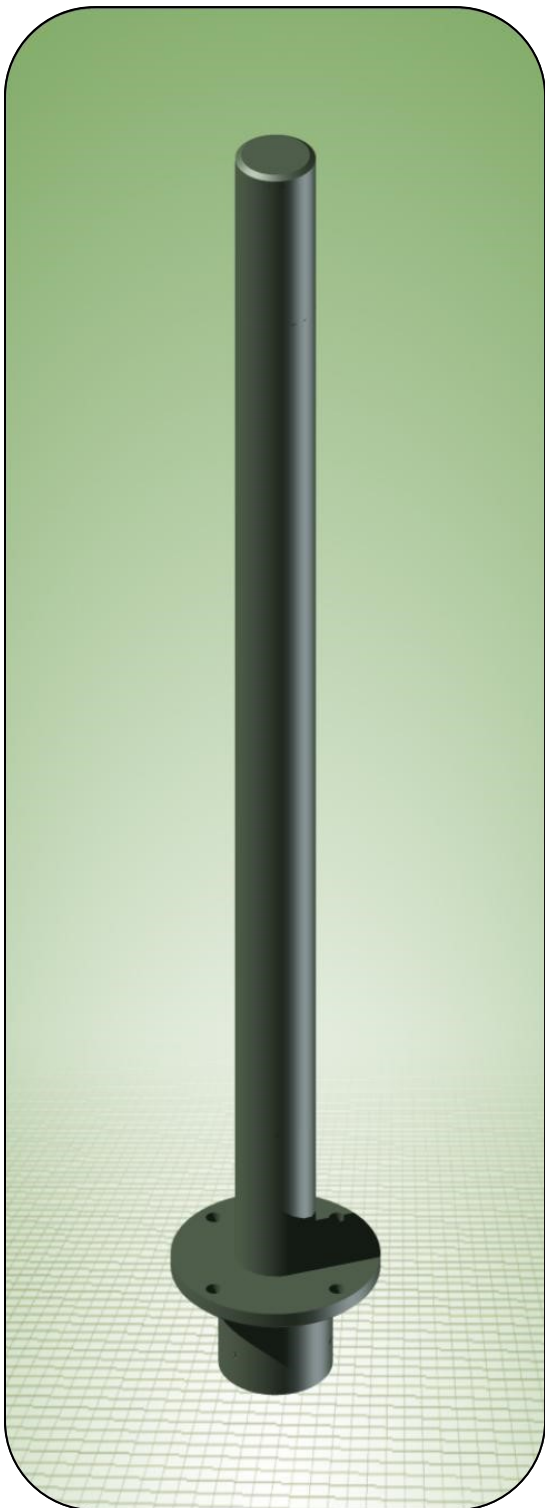
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Marine Broadband Antenna



The MADP100X5 broadband antenna is designed to be used with military, private or commercial applications where reliability is needed most. This antenna works with all radios within the 100-512 MHz band.

The antenna has a band pass covering 100-512 MHz with a single input, at a power level of 75 Watts. A VSWR of less than 2.5:1 throughout most of the band provides an efficient match to all modern military transceivers.

Being “ground independent”, this antenna can be used on all types of vehicles (metal or non-metal) with no degradation in performance.

Robust and tough, this antenna is housed in a thick fiberglass radome and is constructed from corrosion resistant materials for reliability in the harshest environments including high winds, rain and snow.

- **Broadband**
- **100-512 MHz Continuous**
- **75 Watts**
- **Low VSWR**
- **Ground Independent**
- **Robust Construction**



Marine Broadband Antenna

Specifications

ELECTRICAL:

Frequency Range:	100-512 MHz
Gain:	5 dBi @ 116 MHz 3 dBi @ 512 MHz
VSWR:	2.5:1 Typical
Input Impedance:	50 Ω Nominal
Power:	75 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	Type N Female

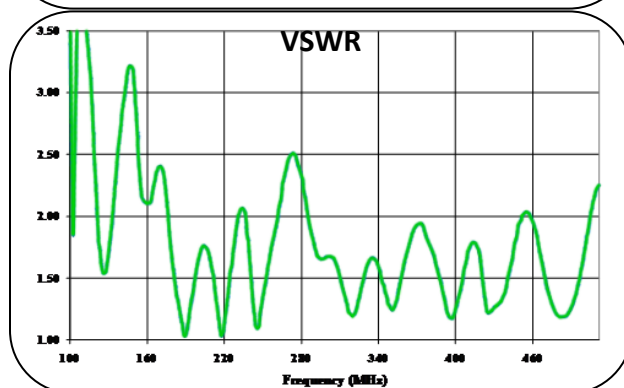
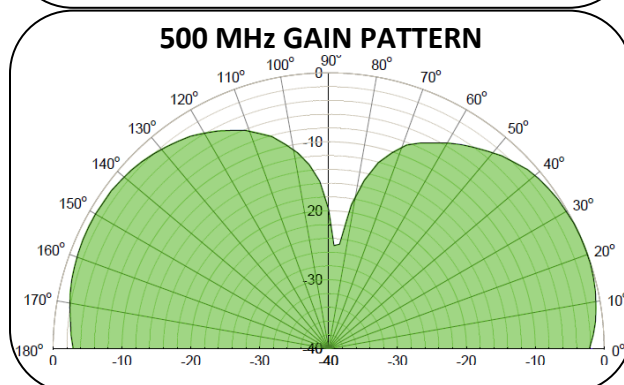
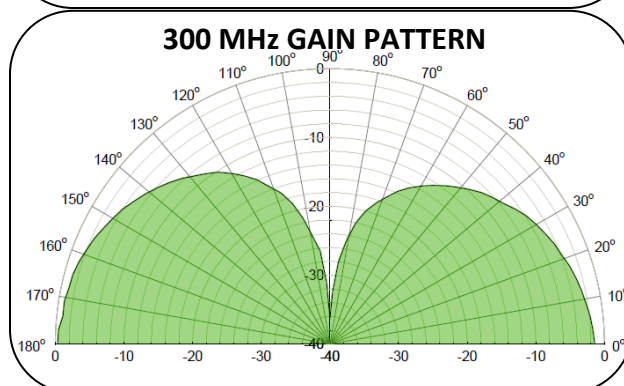
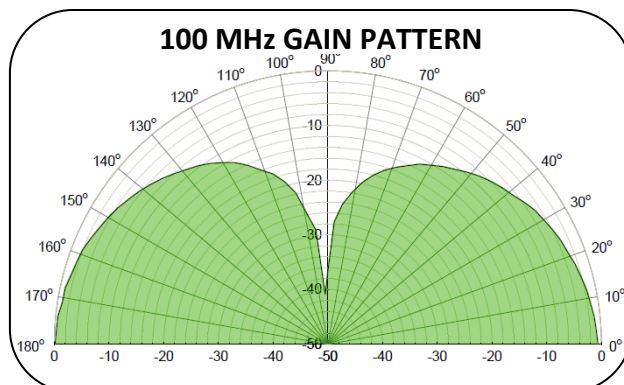
MECHANICAL:

Overall Height:	40 in. (1.02 m)
Net Weight:	7 lb. (3.18 kg)
Color:	Black/Green/Tan/Grey
Mounting:	NATO Standard Four .5" (12.7mm) Holes, equally spaced on a 4.5" (114.3 mm) Dia. BHC
Operational Temp:	-40° to 104° F (-40° to 40° C)
Storage Temp:	-44° to 122° F (-42° to 50° C)
Wind Load:	120 Mph(193 Kph)
Lightning Protection:	DC Grounded

Built to Meet MIL-STD-810 F

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Marine Broadband Antenna



The MADP100X5AB broadband antenna is designed to be used with military, private or commercial applications where reliability is needed most. This antenna works with all radios within the 100-512 MHz band.

The antenna has a band pass covering 100-512 MHz with a single input, at a power level of 200 Watts. A VSWR of less than 2.5:1 throughout most of the band provides an efficient match to all modern military transceivers.

Being “ground independent”, this antenna can be used on all types of vehicles (metal or non-metal) with no degradation in performance.

Robust and tough, this antenna is housed in a thick fiberglass radome and is constructed from corrosion resistant materials for reliability in the harshest environments.

- **Broadband**
- **100-512 MHz Continuous**
- **200 Watts**
- **Low VSWR**
- **Ground Independent**
- **Robust Construction**



Marine Broadband Antenna

Specifications

ELECTRICAL:

Frequency Range:	100-512 MHz
Gain:	5 dBi @ 150 MHz 3 dBi @ 512 MHz
VSWR:	2.5:1 Typical
Input Impedance:	50 Ω Nominal
Power:	200 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	Type N Female

MECHANICAL:

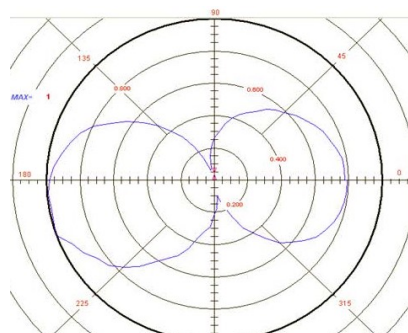
Overall Height:	40 in. (1.02 m)
Net Weight:	7 lb. (3.18 kg)
Color:	Black/Green/Tan/Grey
Mounting:	NATO Standard Four .5" (12.7 mm) Holes, equally spaced on a 4.5" (114.3 mm) Dia. BHC
Wind Load:	125mph (201 kp/h)

Designed to Meet MIL-STD-810

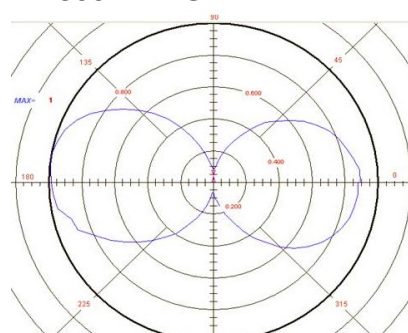
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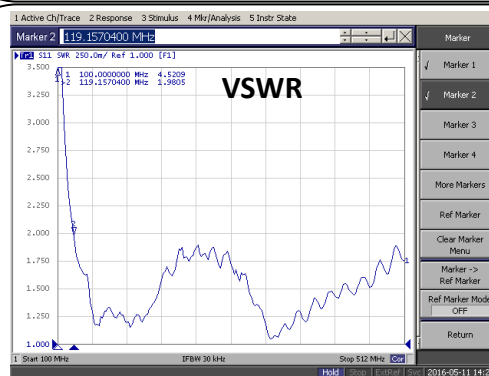
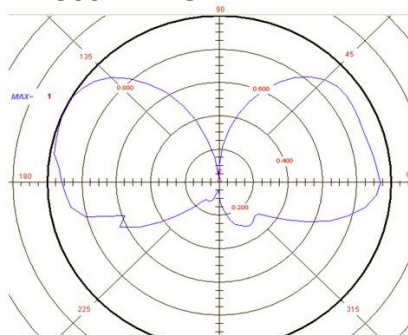
100 MHz GAIN PATTERN



300 MHz GAIN PATTERN



500 MHz GAIN PATTERN



Tri-Band Omnidirectional Antenna



The MADP150-450-816 marine tri-band antenna is designed to be used in commercial, military, private and other craft where reliability is needed most. This antenna works with all radios within the 136-174, 380-520, 762-960 MHz bands.

Being “ground independent”, this antenna can be used on all types of vehicles or vessels (metal or non-metal) with no degradation in performance.

The radiator elements are designed for maximum durability and performance. The antenna radiator is sealed in a heavy duty fiberglass radome for mechanical stability and reliability in harsh environments.

- **Tri-Band Performance in Single Antenna**
- **Ground Plane Independent**
- **Main Beam at Horizon**
- **Single Input**
- **Space Economy**
- **Simplified Installation**
- **Designed to Withstand All Maritime Environments for Shipboard Applications**



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Tri-Band Omnidirectional Antenna Specifications

ELECTRICAL:

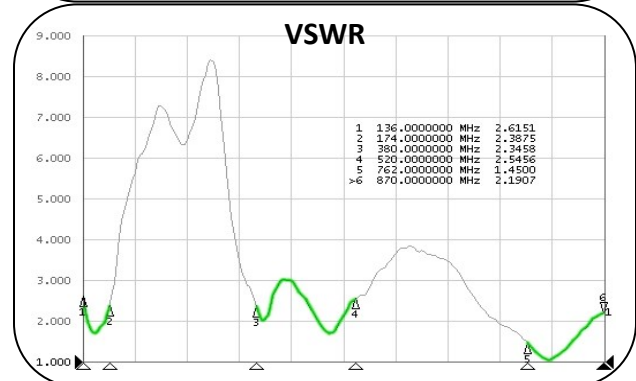
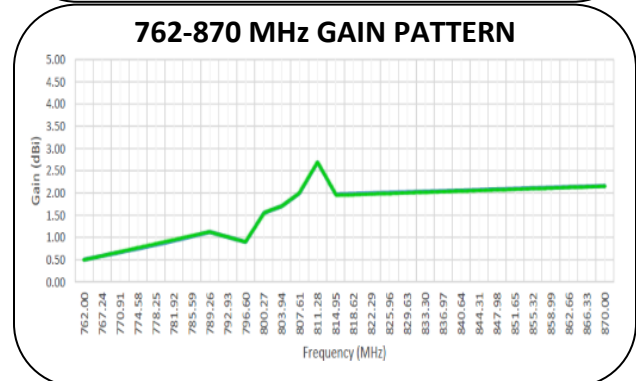
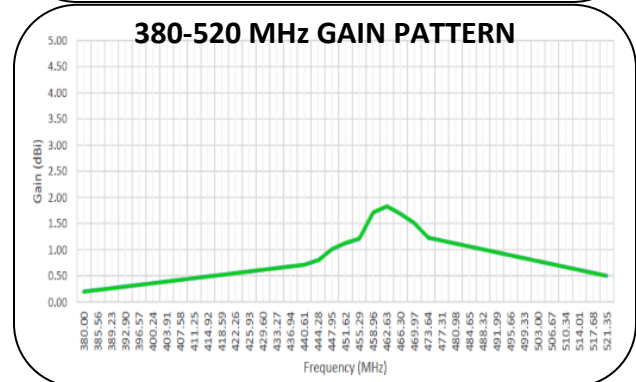
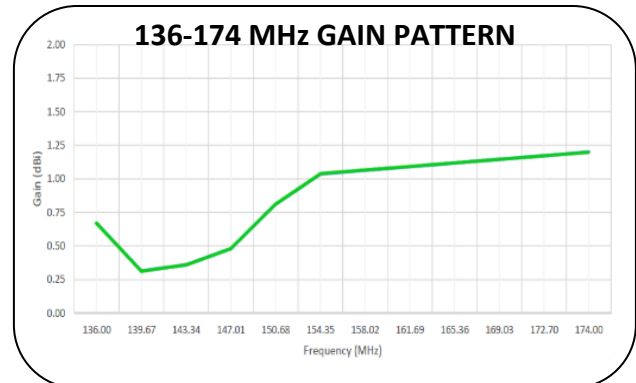
Frequency Range:	136-174 MHz 380-520 MHz 762-960 MHz
Gain:	Unity ~ 2.0 dBi
VSWR:	2.5:1 Operational < 3.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	100 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 72°
Input Connector:	12" Pigtail Type N Female

MECHANICAL:

Overall Height:	39 in. (1 m)
Radome Diameter:	2 in. (51 mm)
Maximum Wind Load:	150 mph (241 kph)
Net Weight:	5.5 lb. (2.5 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
Color:	Black/Green/Tan/Grey/White
Environmental to Shipboard:	Yes
Mounting:	1"-14 Female Thread

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