

Vehicular



HD
HASCALL-DENKE

Vehicular HF Antenna



The MVMP2X30 is designed to enhance the capabilities of the common HF tactical radio application by allowing tuner-less operation across the HF band. This antenna base has integral broadband impedance matching allowing broadband waveforms to be utilized even after the addition of higher power amplifiers.

Additionally, this antenna will cover 5-60 MHz with a VSWR of less than 3.5:1. For more efficient operation in the 2-5 MHz region of spectrum an accessory tuner is available to provide a lower VSWR required by some tactical transceiver products. The tuner can be located anywhere between the transceiver output and the input of the common mode choke. The tuner requires a DC voltage source of 11-16 Volts DC @ 750 mA. For most vehicular platforms efficiency depending on vehicular ground loss averages > 75%. The connector provided with the antenna is a type N Female other connectors available upon request.

A 16ft (4.88 m) fiberglass whip, consisting of four screw together sections, is mounted on top of a tilting whip adapter and spring assembly. The base matching unit is also provided with a cable assembly that includes a common mode RF choke.



Vehicular HF Antenna

"BREAK THROUGH TECHNOLOGY"

The broadband antenna can be used in two modes (1) Broadband with no tuner required or (2) selective mode with tuner.

Specifications:

A. Broadband Mode:

1. The antenna is pre-tuned from 5-22 MHz for broadband applications...no tuner required.
2. Input power: 200 Watts continuous RF
3. VSWR < 3.5:1 over the 5-60 MHz band
4. Broadband efficiency: for most vehicular platforms efficiency (depending on vehicular ground loss and other broadband compensation factors) averages greater than 60%.

B. Tuner mode:

1. Available with the MVMP2X30 antenna and fits seamlessly between the transceiver output and the coax cable going to the antenna base matching unit. (The tuner requires a dc voltage source of 11-16 volts DC @ 750mA)
2. Tuner operation (Ref. to manual) the tuner has two modes of operation
 - (a) tuner off—allows broadband operation from 5-22 MHz...tuner is in bypass mode.
 - (b) tuner on—allows tuner to tune the antenna system from 2-60 MHz single frequency. This mode also allows a pre-set VSWR and up to 8000 tuned single frequencies can be stored in tuner memory.
 - (c) Max power: 200 Watts
 - (d) Efficiency: for most vehicular platforms efficiency (depending on vehicular ground loss) averages > 75%.

C. Other specifications:

1. Standard NATO 4 bolt on 4.5 inch DBHC
2. High voltage protection up to 20 KV and high voltage static buildup protection
3. EMP protection included
4. Base connector: Type N Female

D. Antenna System consists of:

1. Min 16 foot fiberglass whip in four screw together sections
2. Spring and tilt whip adapter for NVIS applications
3. Base matching unit
4. Cable assembly with common mode RF choke
5. 2-60 MHz tuner (optional)

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



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Mobile Broadband Antenna



The MVMP20X6 broadband antenna is designed to be used on public safety vehicles. This antenna works with all radios within the 20-120 MHz band.

The antenna has a band pass covering 20-120 MHz with a single input at a power level of 100 Watts with a VSWR of less than 3.5:1 provides an efficient match to all modern public safety transceivers.

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

- **Broadband**
- **20-120 MHz Continuous**
- **100 Watts**
- **Low VSWR**
- **Robust Construction**



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Mobile Broadband Antenna

Specifications

ELECTRICAL:

Frequency Range:	20-120 MHz
Gain:	-5 ~ +1.5 dBi ref. 1/4 wave radiator on a 10' x 10' x 10' ground plane.
VSWR:	< 3.0:1 Typical 3.5:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	100 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	106 in. (2.69 m)
Net Weight:	9 lb. (4.08 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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Vehicular Broadband Antenna



The MVDP25X4 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 25-110 MHz band.

The antenna has a band pass covering 25-110 MHz with a single input at a power level of 300 Watts. A VSWR of less than 3.5:1 between 25-110 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.

- **25-110 MHz Continuous**
- **300 Watts**
- **Robust Construction**
- **Low VSWR.**
- **Ground Independent**

Mounting bracket shown not included.



Vehicular Broadband Antenna

Specifications

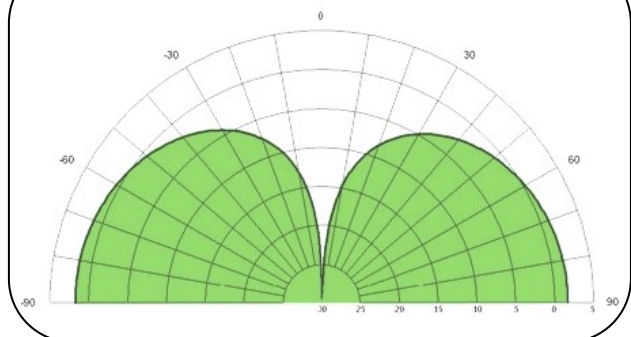
ELECTRICAL:

Frequency Range:	25-110 MHz
Gain:	-6 dBi @ 30 MHz 2 dBi @ 88 MHz
VSWR:	3.5:1
Input Impedance:	50 Ω Nominal
Power:	300 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	Type N Female

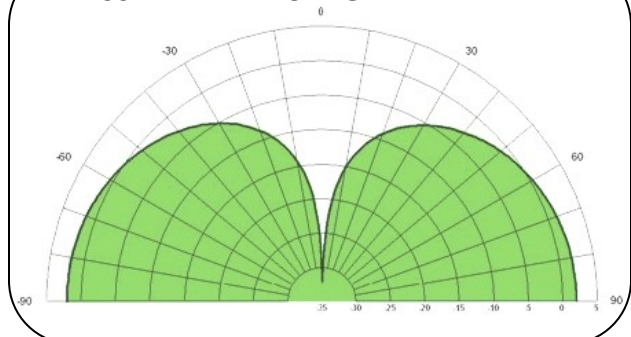
MECHANICAL:

Overall Height:	93 in. (2.36 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

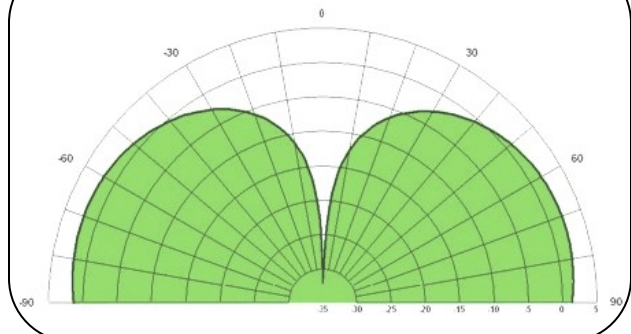
30 MHz VERTICAL GAIN PATTERN



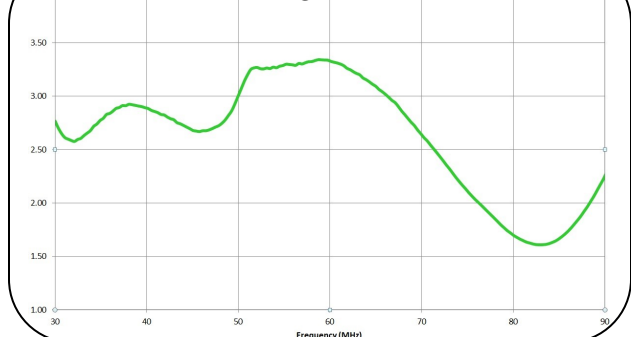
60 MHz VERTICAL GAIN PATTERN



90 MHz VERTICAL GAIN PATTERN



VSWR



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Mobile Whip Antenna



The MVMP30X3 is a broadband, stainless steel whip antenna designed to be used on military tactical vehicles. This antenna is designed to work with frequency hopping radio systems in the VHF 30-90 MHz band. The antenna is also compatible with all fixed frequency and selective frequency transceivers.

This antenna requires no additional power cables, tuning, or adjustments of any kind for its operation.

- **Short and Thin Profile**
- **Matching Network in Base**
- **75 Watt Power Capability**
- **High Voltage Isolated and EMP Protection**
- **Standard 4.5" BHC Mount (NATO Std.)**
- **Stainless Steel Whip**
- **Designed to Meet MIL-STD-810
Environmental Specifications**
- **For Tactical Military Use**

Mounting Bracket sold separately.



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(1Y01825)

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Mobile Whip Antenna

Specifications

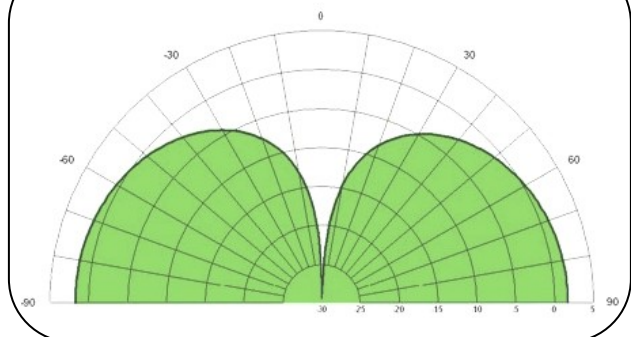
ELECTRICAL:

Frequency Range:	30-90 MHz
Gain:	-5.6 dBi @ 30 MHz -1.7 dBi @ 90 MHz
VSWR:	< 3.0:1 Typical 3.5:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	75 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	BNC (Others Available)

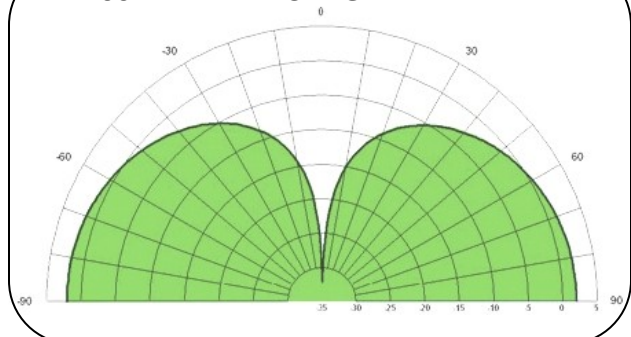
MECHANICAL:

Overall Height:	75 in. (1.91 m)
Net Weight:	5 lb. (2.27 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

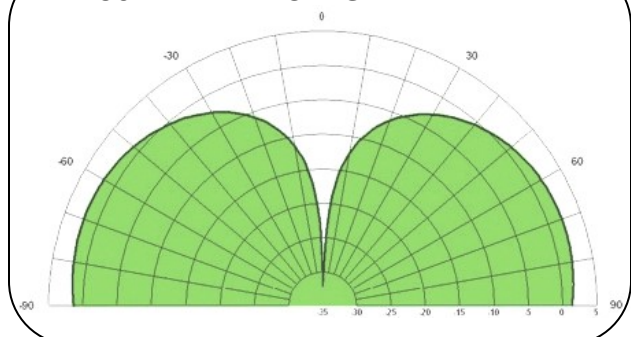
30 MHz VERTICAL GAIN PATTERN



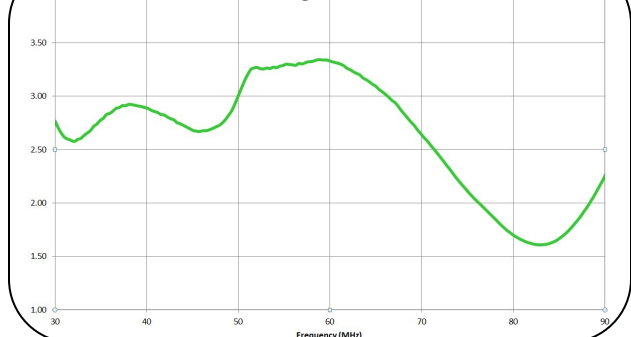
60 MHz VERTICAL GAIN PATTERN



90 MHz VERTICAL GAIN PATTERN



VSWR



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Mobile Broadband Antenna



The MVMP30X3AB broadband antenna is designed for tactical battlefield conditions using frequency hopping radios. This antenna requires no tuning within the 30-90 MHz band.

The antenna is an ideal choice for multiband radios and can replace multiple antennas with a single antenna.

The antenna is designed for mounting on armored or other metallic body vehicles.

- **Rugged Fiberglass Construction**
- **Ideal for Armored Vehicles**
- **Spring Base**
- **30-90 MHz Frequency Hopping**

Mounting Bracket sold separately.



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Mobile Broadband Antenna

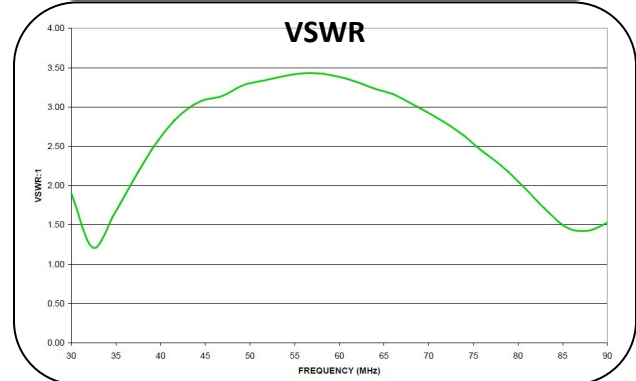
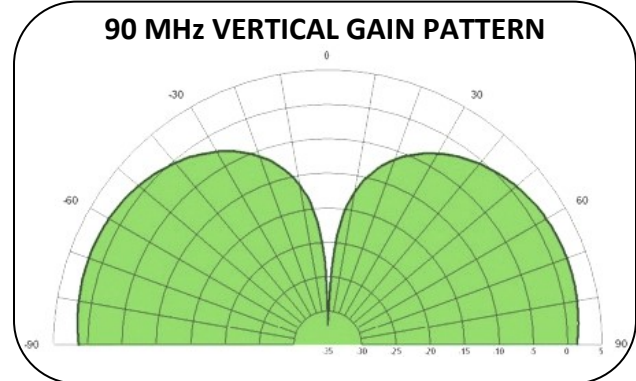
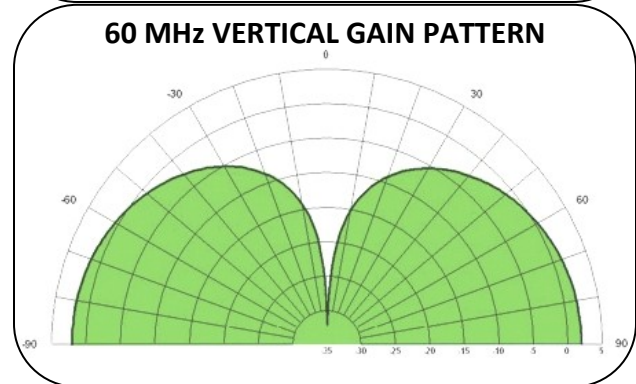
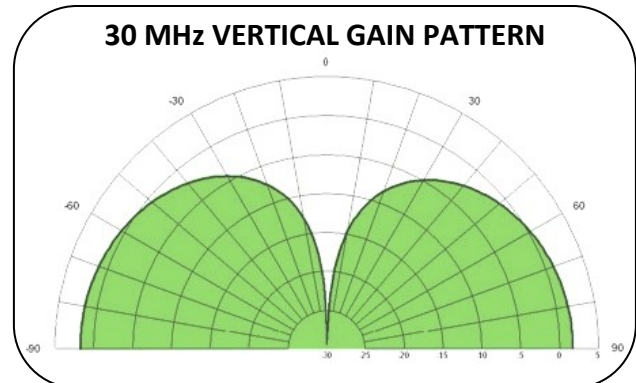
Specifications

ELECTRICAL:

Frequency Range:	30-90 MHz
Gain:	-5 ~ +1.5 dBi ref. 1/4 wave radiator on a 10' x 10' x 10' ground plane.
VSWR:	< 3.0:1 Typical 3.5:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	200 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	BNC or Type N Female

MECHANICAL:

Overall Height:	106 in. (2.69 m)
Net Weight:	9 lb. (4.08 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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Mobile Broadband Antenna



The MVMP30X17 broadband monopole antenna is designed for tactical battlefield conditions using frequency hopping radios. This antenna requires no tuning within the 30-512 MHz band.

The antenna is an ideal choice for multiband radios and can replace multiple antennas with a single antenna.

This antenna is designed for mounting on armored or other metallic body vehicles.

- **Rugged Fiberglass Construction**
- **Ideal for Armored Vehicles**
- **Spring Base**
- **30-512 MHz Frequency Hopping**

Mounting Bracket sold separately.



Mobile Broadband Antenna

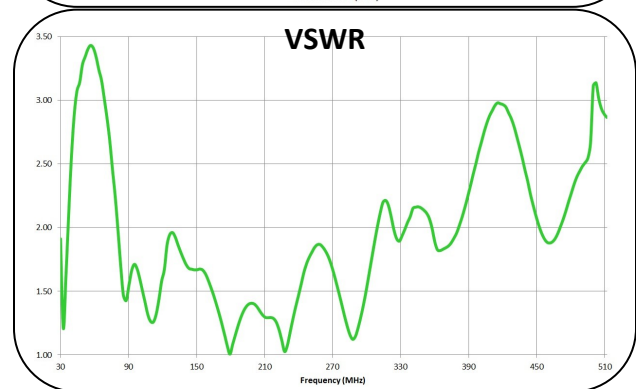
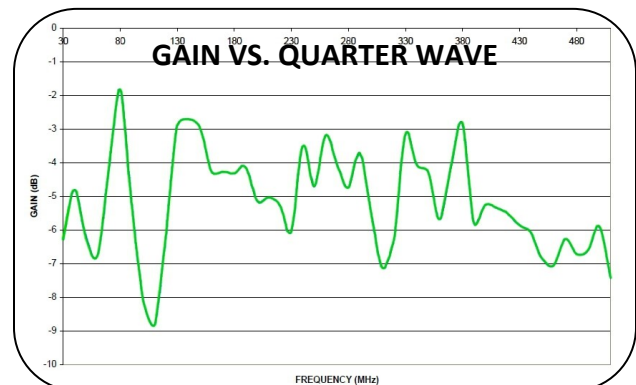
Specifications

ELECTRICAL:

Frequency Range:	30-512 MHz
Gain:	-5 ~ +1.5 dBi ref. 1/4 wave radiator on a 10' x 10' x 10' ground plane.
VSWR:	< 3.0:1 Typical 3.5:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	100 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	BNC or Type N Female

MECHANICAL:

Overall Height:	106 in. (2.69 m)
Net Weight:	9 lb. (4.08 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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Vehicular Broadband Antenna



The MVDP30X17 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.



Vehicular Broadband 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

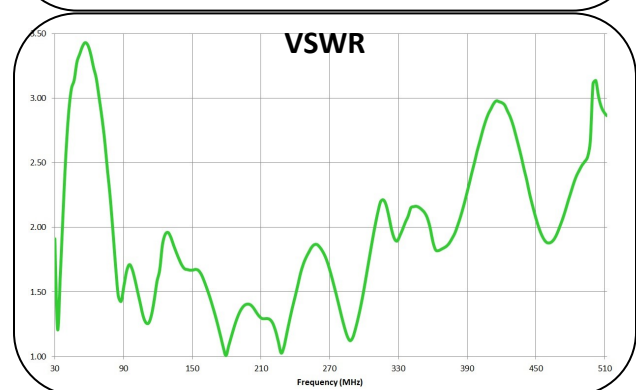
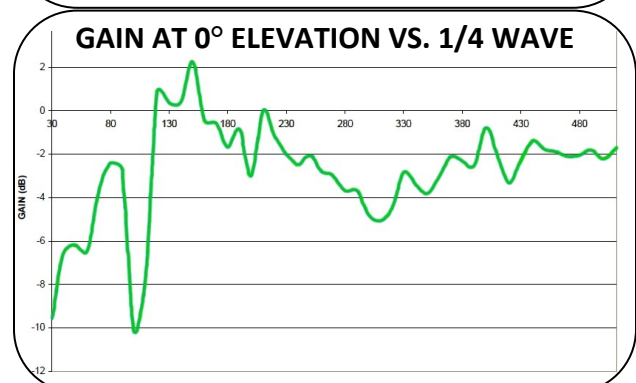
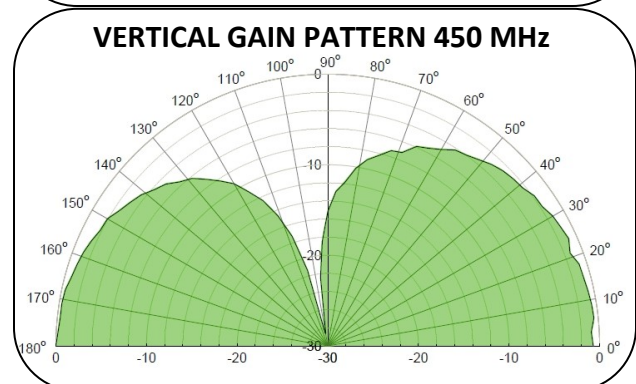
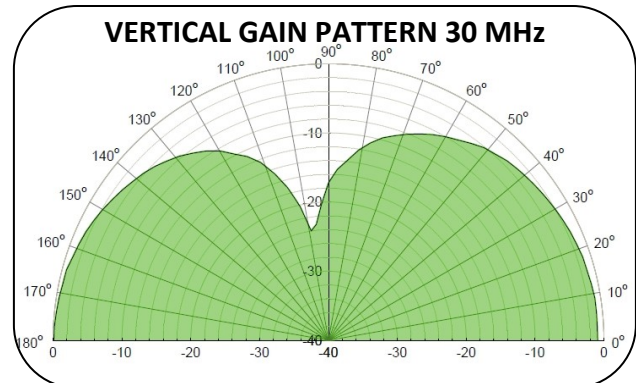
MECHANICAL:

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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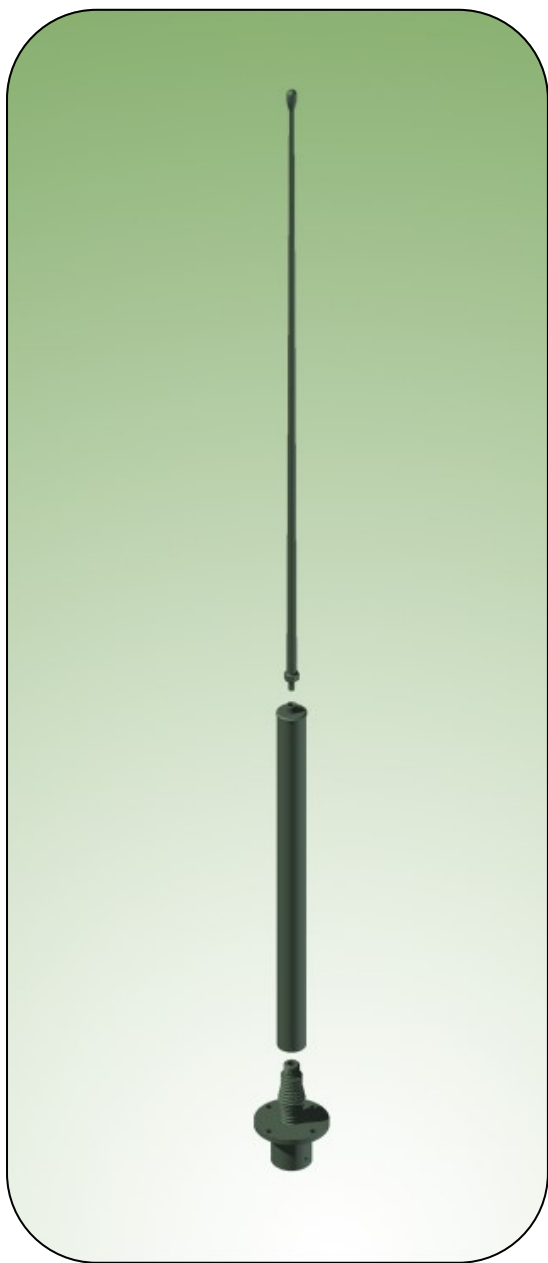
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Vehicular Broadband Antenna



The MVDP30X17AB-383 GREEN broadband dipole 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 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.



Vehicular Broadband 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

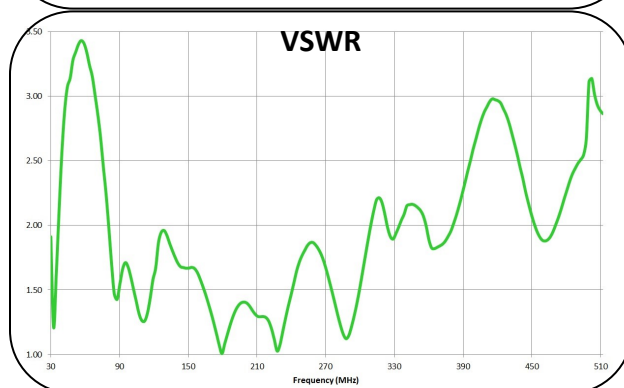
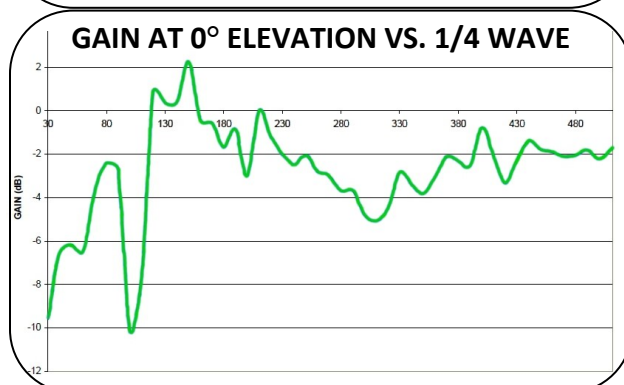
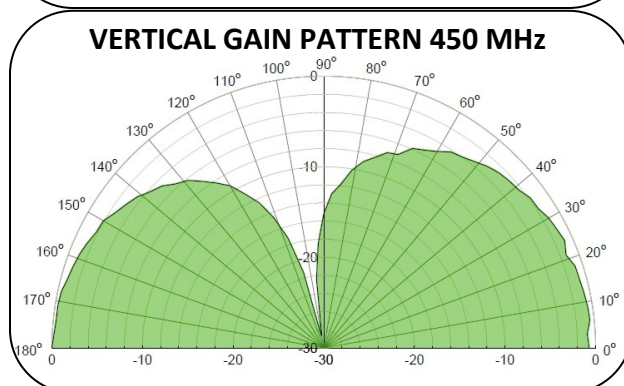
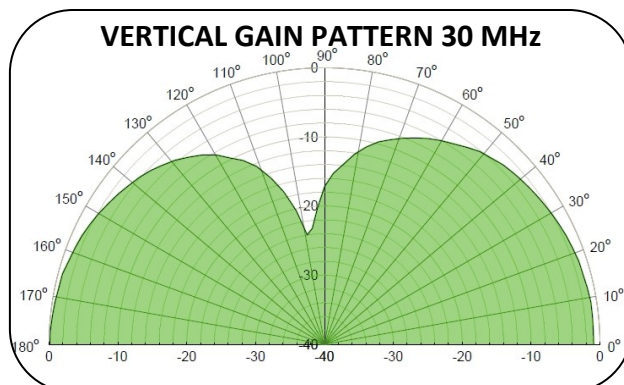
MECHANICAL:

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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Dual Input Vehicular Broadband Antenna



The MVDP30X17DAC 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 30-90 & 130 -512 MHz bands.

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.

- **50 Watts**
- **Robust Construction**
- **Low VSWR.**
- **Ground Independent**

Mounting bracket shown not included.



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(1Y19900)

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Dual Input Vehicular Broadband Antenna Specifications

ELECTRICAL:

Frequency Range: 30-90 & 130-512 MHz

Gain:
-6 dBi @ 30 MHz
2 dBi @ 88 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: (2) Type N Female

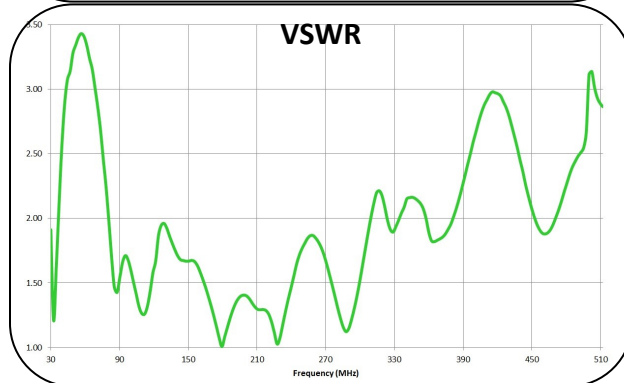
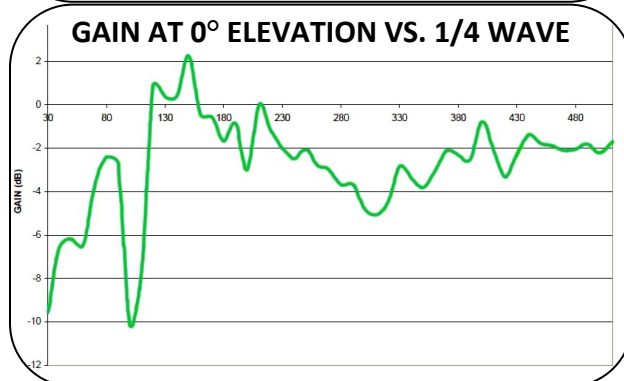
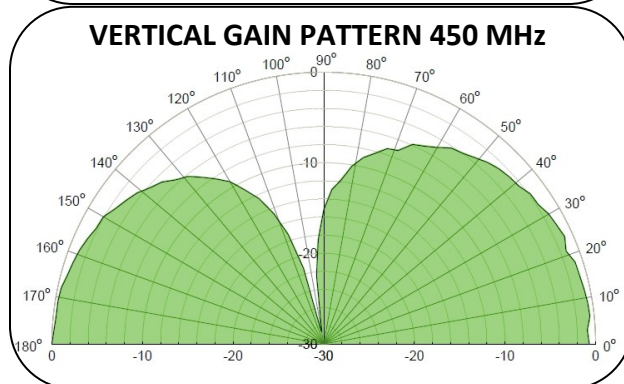
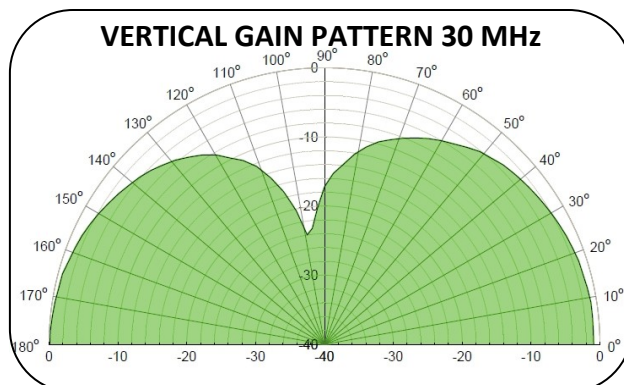
MECHANICAL:

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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Vehicular Broadband Antenna



The MVDP30X17AD 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 100 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**
- **100 Watts**
- **Robust Construction**
- **Low VSWR.**
- **Ground Independent**

Mounting bracket shown not included.



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Vehicular Broadband 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: 100 Watts

Polarization: Vertical

Radiation Pattern:
Azimuth: 360°
Elevation: 90°

Input Connector: Type N Female

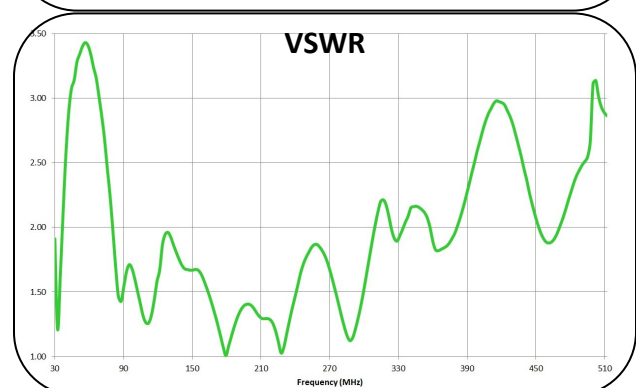
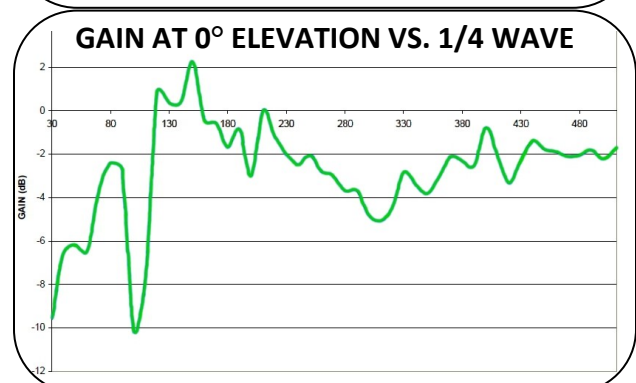
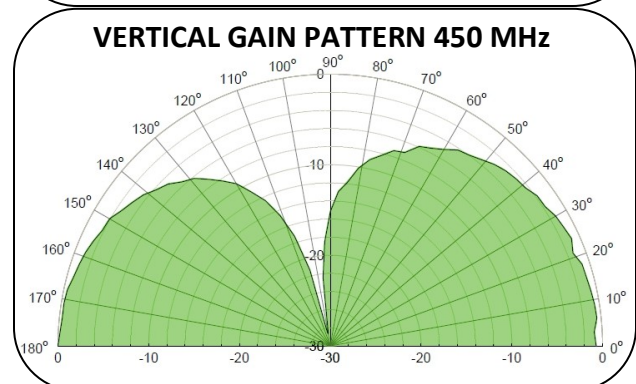
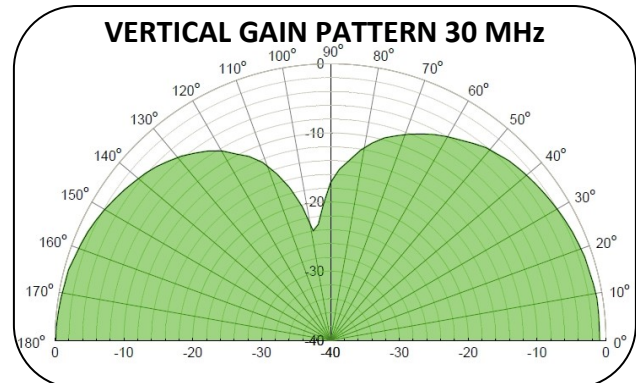
MECHANICAL:

Overall Height: 89 in. (2.26 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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Vehicular Broadband Antenna



The MADP30X17AE 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 100 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**
- **100 Watts**
- **Robust Construction**
- **Low VSWR.**
- **Ground Independent**

Mounting bracket shown not included.



Vehicular Broadband 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: 100 Watts CW

Polarization: Vertical

Radiation Pattern:
Azimuth: 360°
Elevation: 90°

Input Connector: Type N Female

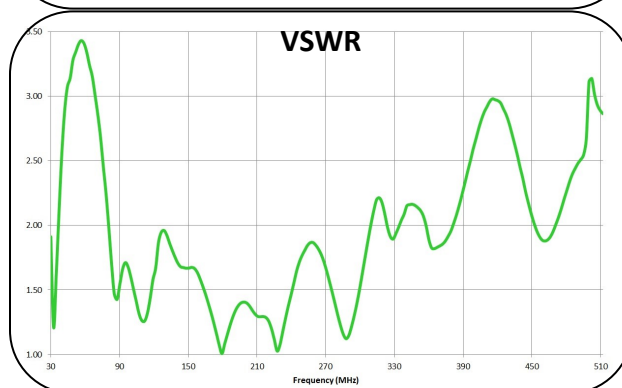
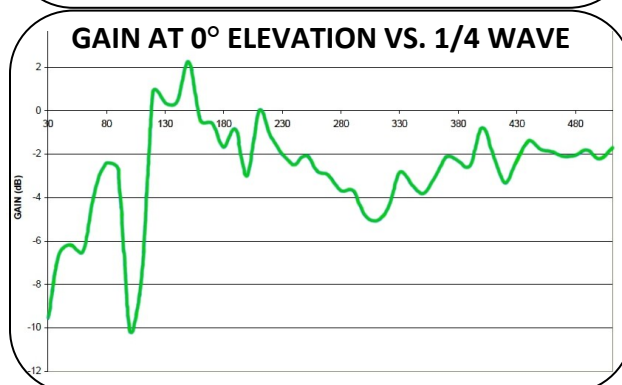
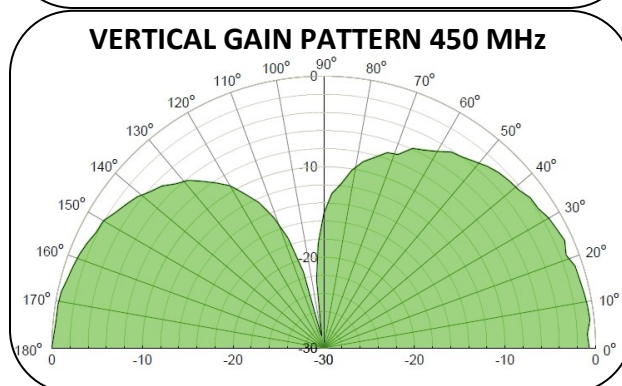
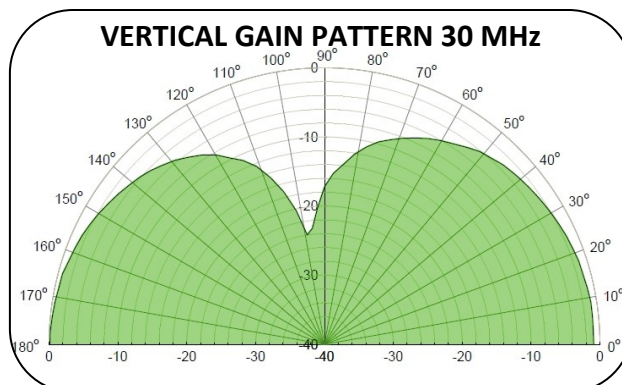
MECHANICAL:

Overall Height: 89 in. (2.26 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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Broadband Vehicular Antenna



The MAMP30X17AB broadband monopole antenna is designed to be used in military or commercial, vehicular or marine applications where low profile and reliability are needed most. This antenna works with all radios within the 30-520 MHz band with a VSWR of less than 2.5:1. The base of the antenna is reinforced for rough handling

- **Compatible with all mounts using PSC-5 type connectors**
- **Hascall-Denke mounts available are: HDM006 Roof Mount, MM003 Magnetic Mount and UM0014 Trunk Lid Mount**
- **Antennas and mounts available with type "N" Connectors.**



Broadband Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range: 30-512 MHz

Gain:
-30dBi Peak @ 30 MHz
-2 dBi @ 125-512 MHz
0 dBi @ 225-400 MHz

VSWR:
< .25:1 Typical
2.5:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 35 Watts

Polarization: Vertical

Radiation Pattern:
Azimuth: 360°
Elevation: 90°

Input Connector: PSC-5

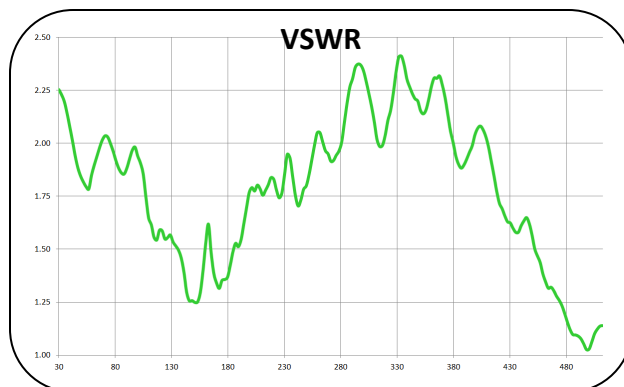
MECHANICAL:

Overall Height: 17.5 in. (0.44 m)

Net Weight: 1.5 lb. (0.52 kg)

Color: Black

Mounting: PSC-5



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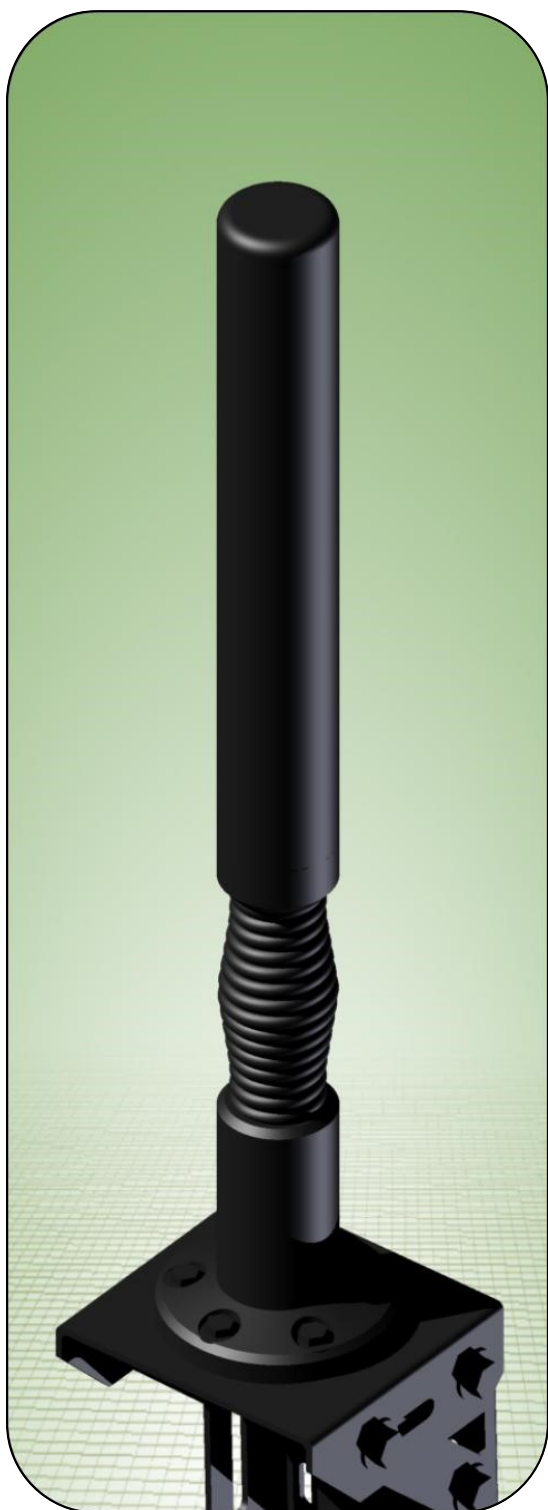
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Mobile Vehicular Antenna



The MVMP100X4 was developed to meet the rigors of military tactical environments and provide reliable communications under the most adverse conditions.

The primary parameters for the design of the MVMP100X4 were as follows:

- **Optimum Gain for 100-400 MHz**
- **Low Profile for Minimum Physical Signature**
- **Low VSWR ($< 2.5:1$)**
- **Survivability in Hostile Environments**
- **Ground Independence (i.e. to perform on fiberglass as well as metal surfaces)**

The radiator is encased in a durable fiberglass radome and attached to the matching base unit by a heavy duty stainless steel coil spring. Both the radiator and base matching unit are pressure filled with a structural thermoset foam for maximum strength. The spring is coated with black nickel and the aluminum base flange is black anodized. The entire antenna is over coated with a matte black two-part urethane.

Optimum performance is achieved when the MDB001 is used with UM002 universal vehicular antenna mount. The antenna is easy to install using the 1/4" stainless steel cap screws (6 ea.) provided with the UM002 mount. The bolt holes are evenly spaced on a 3-1/16" circle. The Type-N Female connector is recessed in the base mounting flange for mechanical and protection from the environment.

UM002 mounting bracket not included.



Mobile Vehicular Antenna

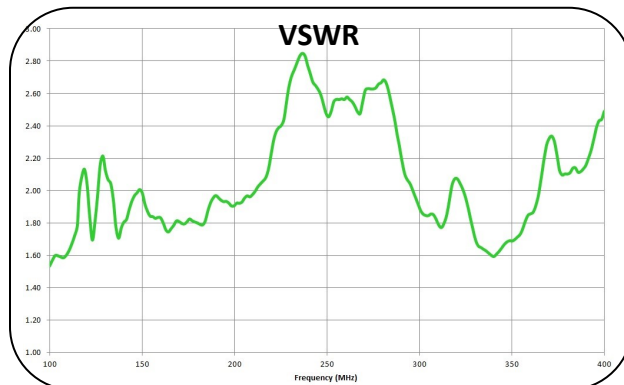
Specifications

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 CW & PEP
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.



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Mobile Vehicle Antenna



The MVMP100X4AB was developed to meet the rigors of military tactical environments and provide reliable communications under the most adverse conditions.

The MVMP100X4AB also provides increased radiation efficiency in comparison to the MVMP100X4, and is used where minimal physical size **is not** of paramount importance.

The primary parameters for the design are as follows:

- **Optimum Gain for 100-400 MHz**
- **Low VSWR ($< 2.5:1$)**
- **Survivability in Hostile Environments**
- **Ground Independence (i.e. to perform on fiberglass as well as metal surfaces)**

A radiator element is encased in a durable fiberglass radome and attached to the base matching unit by a heavy duty stainless steel coil spring. Both the radiator and base matching unit are pressure filled with a structural foam for maximum strength. The spring is coated with black oxide and the aluminum base flange is black anodized. The radome, base matching unit and mounting flange are over coated with a matte black two-part urethane.

Optimum performance is realized when the MDB002 is used with UM002 universal vehicular antenna mount. The antenna is easy to install using the (6 ea.) 1/4" S-S cap screws provided with the UM002 mount. The 6 mounting holes are evenly spaced on a 3 1/6" circle. The Type N Female connector is recessed in the base mounting flange for mechanical and environmental protection.

UM002 mounting bracket not included.



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Mobile Vehicle Antenna

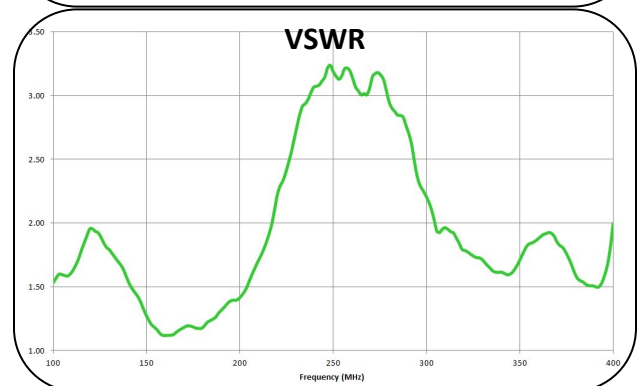
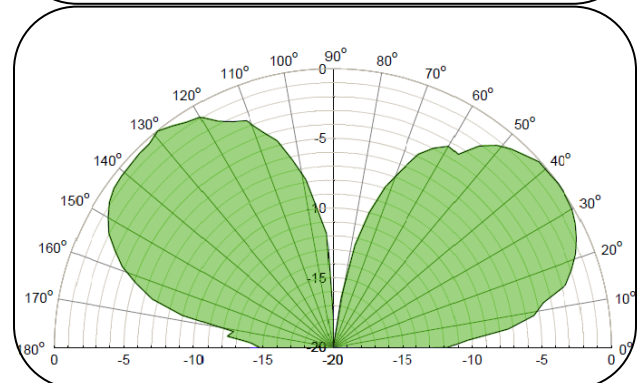
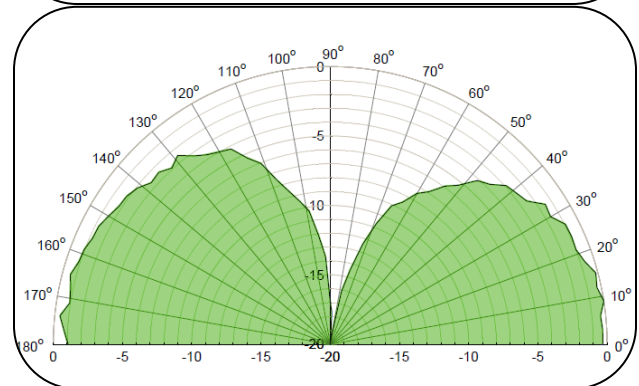
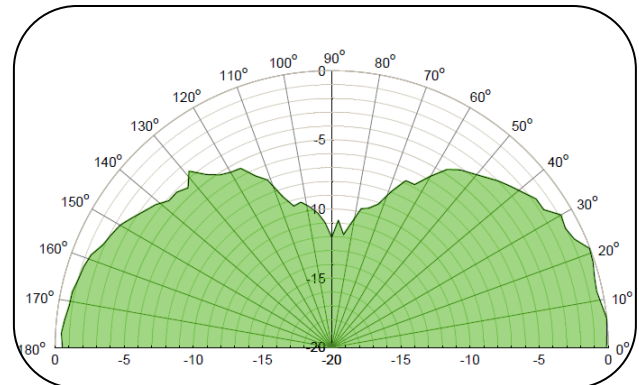
Specifications

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:	5.25 lb. (2.38 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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Broadband Vehicular Antenna



The MAMP100X4AC broadband monopole antenna is designed to be used in military or commercial vehicular or marine applications where low profile and reliability are needed most. This antenna works with all radios within the 100-420 MHz band with a VSWR of less than 2.5:1. The base of the antenna is reinforced for rough handling.

- **Compatible with all mounts using PSC-5 type connectors.**
- **Hascall-Denke mounts available are: HDM006 Roof Mount, MM003 Magnetic Mount and UM0014 Trunk Lid Mount.**
- **Antennas and mounts available with Type "N" connectors.**



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Broadband Vehicular Antenna

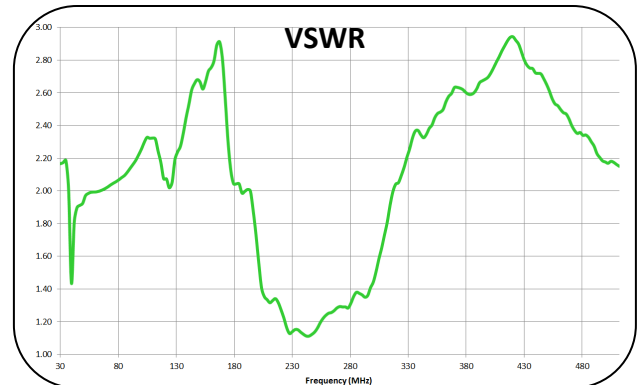
Specifications

ELECTRICAL:

Frequency Range:	100-420 MHz
VSWR:	< 2.5:1 Typical 3.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	30 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	PSC-5 (Type "N" available.)

MECHANICAL:

Overall Height:	16.25 in. (0.41 m)
Net Weight:	1.1 lb. (0.50 kg)
Color:	Black
Mounting:	PSC-5 (Type "N" available.)



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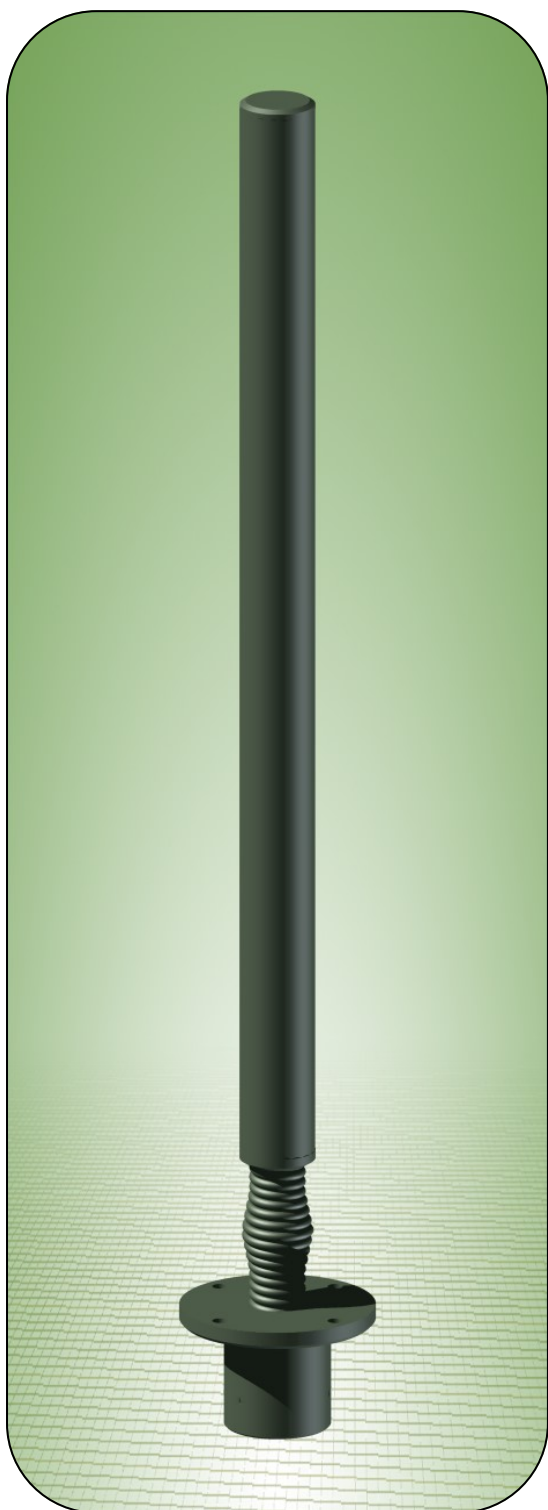
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Mobile Broadband Antenna



The MVDP100X5 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.

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



Mobile Broadband Antenna

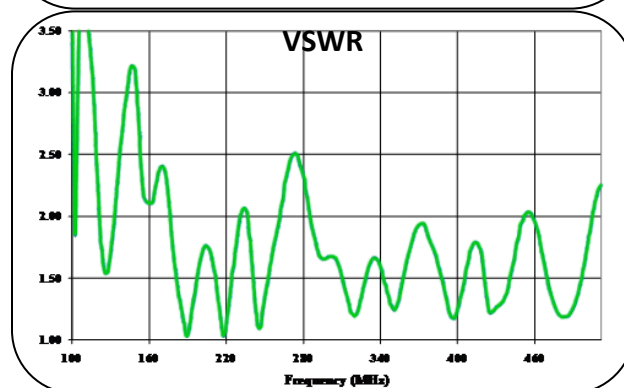
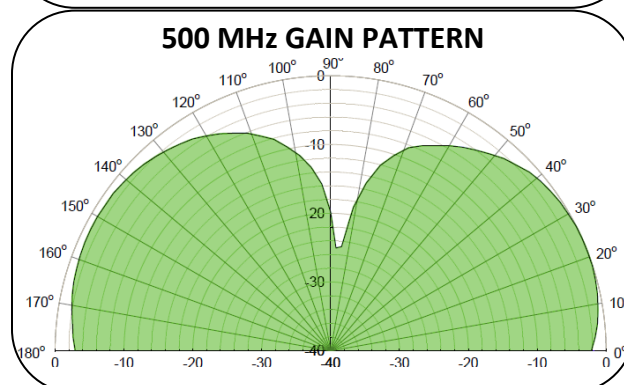
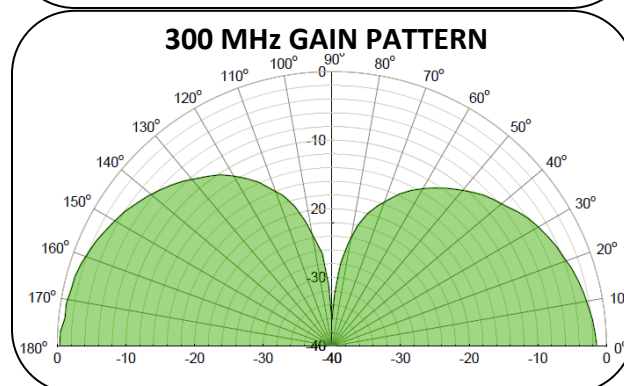
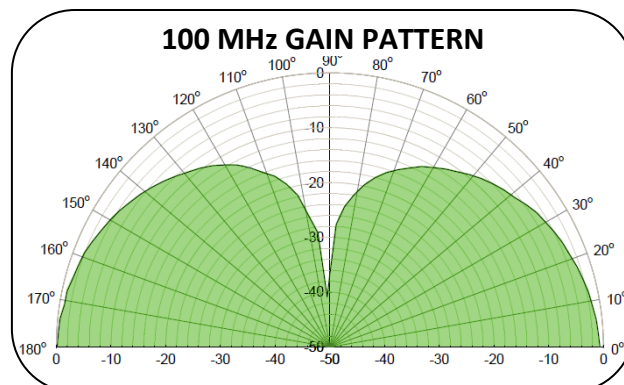
Specifications

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" (12.7 mm) Holes, equally spaced on a 4.5" (114.3 mm) Dia. BHC



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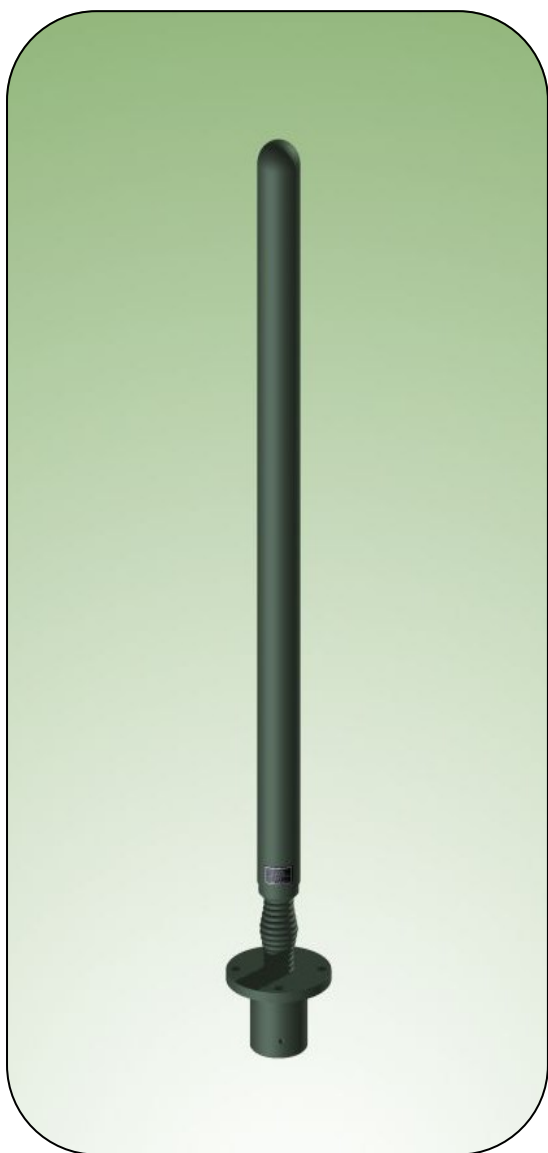
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Mobile Broadband Antenna



The MVDP100X5-383 GREEN broadband antenna is designed to be used in military, commercial, and other 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.

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



Mobile Broadband Antenna

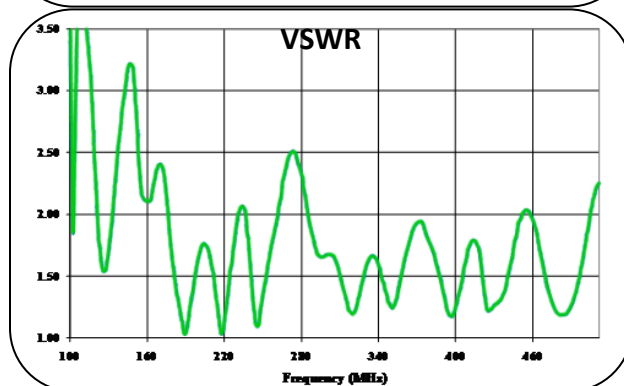
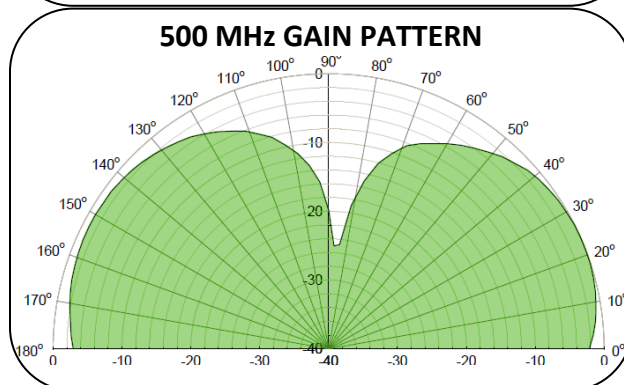
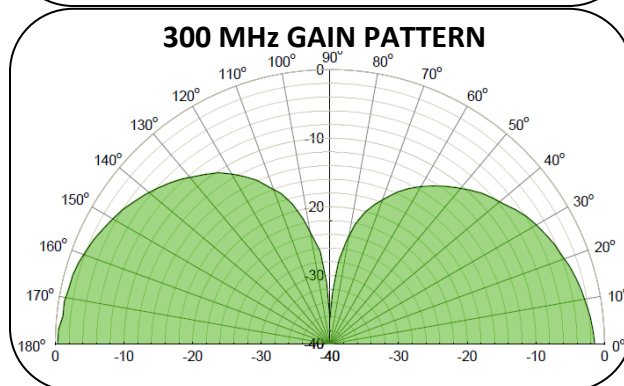
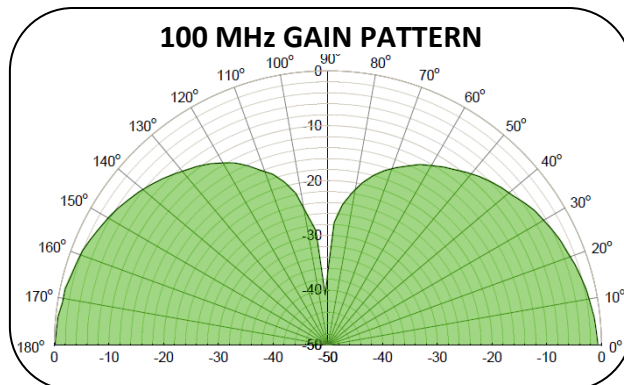
Specifications

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" (12.7 mm) Holes, equally spaced on a 4.5" (114.3 mm) Dia. BHC



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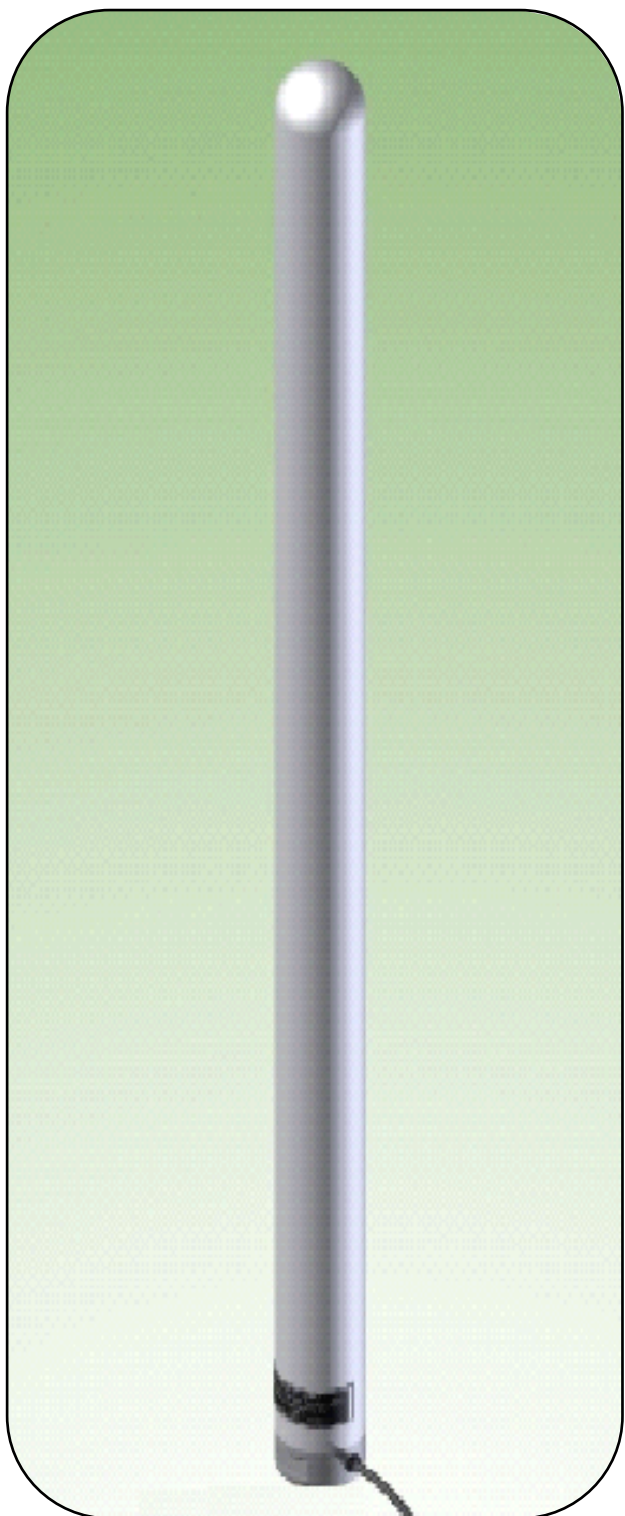
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High Power Omnidirectional Antenna



The MVDP100X8 antenna is designed to be used on covert, military, private and other high security platforms where reliability is needed most. Covering frequencies from 130 thru 800MHz, while under high power broadcast applications.

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

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

- **Broadband Performance**
- **Ground Plane Independent**
- **Main Beam at Horizon**
- **High Power**

Mounting Bracket sold separately.



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(1Y33950)

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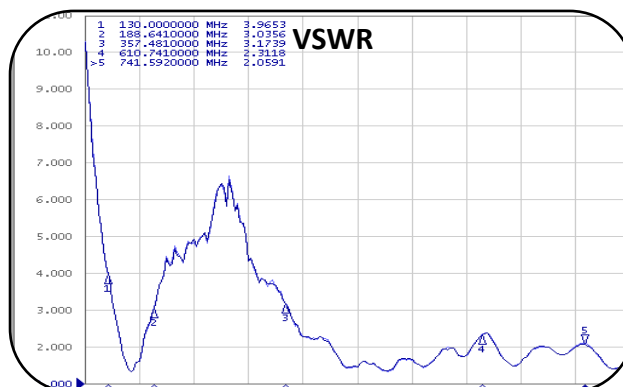
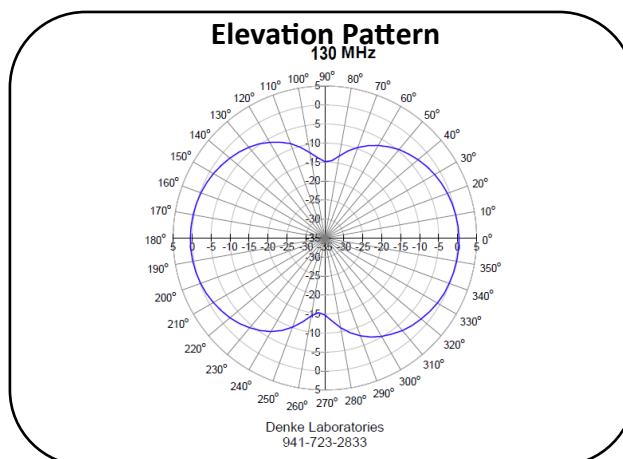
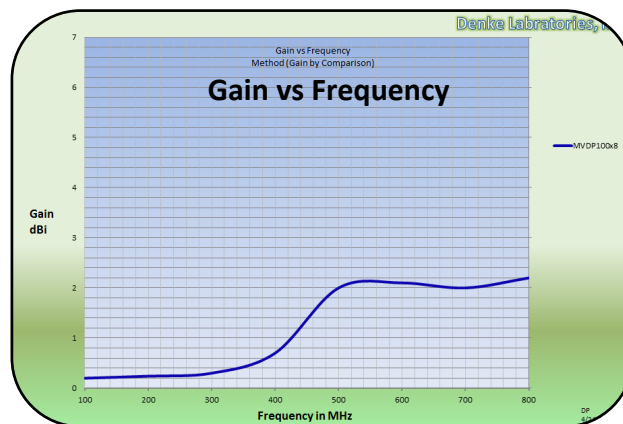
High Power Omnidirectional Antenna Specifications

ELECTRICAL:

Frequency Range:	130-800 MHz
Gain:	Unity ~ 2.0 dBi
VSWR:	3:1 Operational
Input Impedance:	50 Ω Nominal
Power:	300 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 70°
Input Connector:	Type N Female or 7/16 Din TBD

MECHANICAL:

Overall Height:	26" Ideal (Max 32in. (0.91 m))
Radome Diameter:	2.25 in. (58 mm)
Maximum Wind Load:	150 mph (241 kph)
Net Weight:	5 - 8 lb. (2.27 - 3.63 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
Color:	Black/Green/Tan/Grey/White
Humidity:	100% Condensing
Mounting:	Pipe, Clamp, * Special Request



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Tactical Mobile Antenna



The MVDP110-175 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all VHF frequency hopping radios within the 110-175 MHz band.

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.

Mounting Bracket sold separately.



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(1Y03600)

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Tactical Mobile Antenna

Specifications

ELECTRICAL:

Frequency Range:	110-175 MHz
Gain:	0.0 ~ 2.0 dBi
VSWR:	3.5:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	75 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
EMP Protection:	Included
Input Connector:	Type BNC Female

MECHANICAL:

Overall Height:	54 in. (1.37 m)
Net Weight:	6.5 lb. (2.95 kg)
Color:	Black/Green/Tan/Grey
Operational Temps:	-40° to +158°F (-40° to +70°C)
Mounting:	NATO Standard Four .5" (12.7 mm) Holes, equally spaced on a 4.5" (114.3 mm) Dia. BHC

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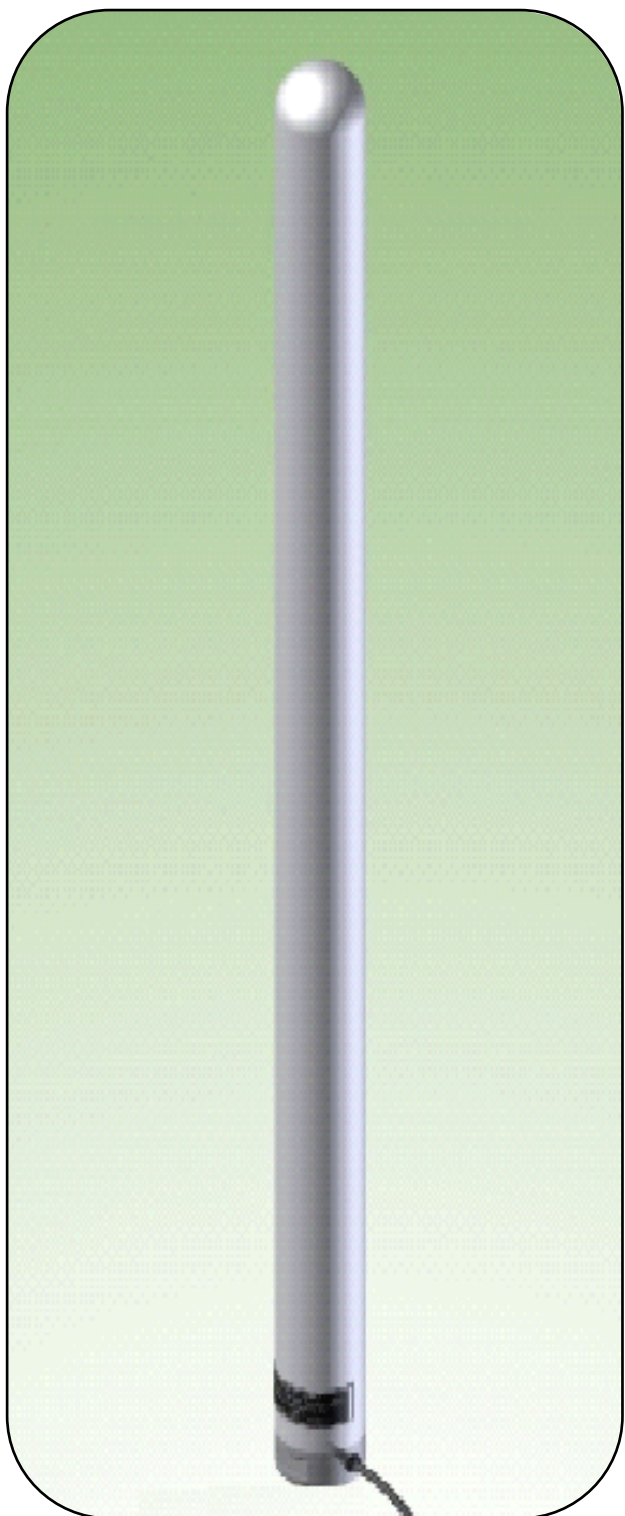
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High Power Omnidirectional Antenna



The MVDP100X5AE antenna is designed to be used on covert, military, private and other high security platforms where reliability is needed most. Covering frequencies from 130 thru 500MHz, while under high power broadcast applications.

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

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

- **Broadband Performance**
- **Ground Plane Independent**
- **Main Beam at Horizon**
- **High Power**

Mounting Bracket sold separately.



Made in the USA
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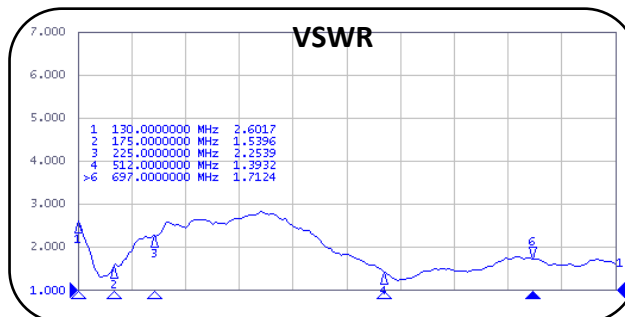
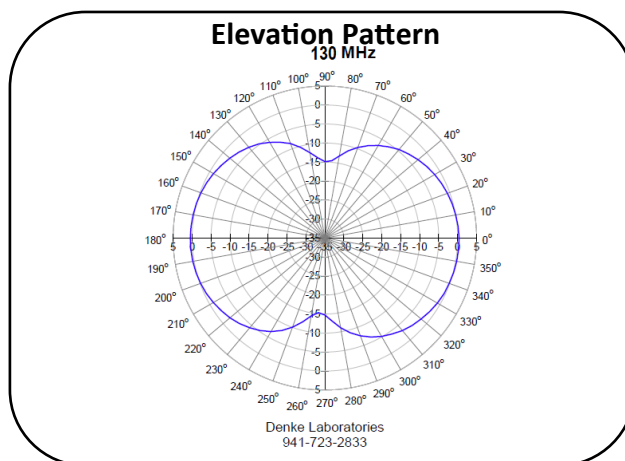
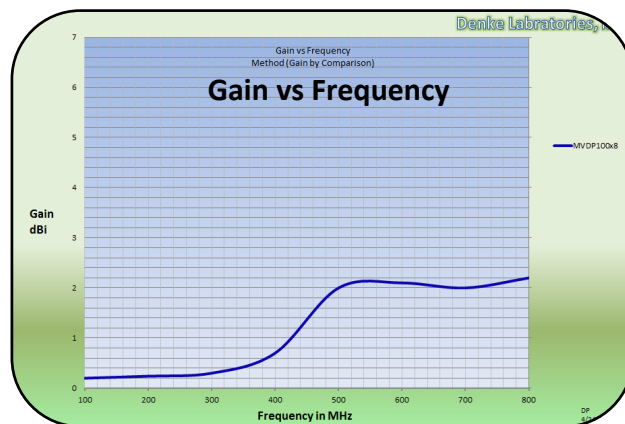
High Power Omnidirectional Antenna Specifications

ELECTRICAL:

Frequency Range:	130-500 MHz
Gain:	Unity ~ 2.0 dBi
VSWR:	3:1 Operational
Input Impedance:	50 Ω Nominal
Power:	300 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 70°
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	39 in.(0.99 m))
Radome Diameter:	2.25 in. (58 mm)
Maximum Wind Load:	150 mph (241 kph)
Net Weight:	7 lb. (3.18 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
Color:	Black/Green/Tan/Grey/White
Humidity:	100% Condensing
Mounting:	Pipe, Flange, or Special Request



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



Made in the USA
ISO 9001:2015 Certified
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Vehicular Broadband Antenna



The MVDP132-174 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 132-174 MHz band.

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.

- **20 Watts**
- **Low VSWR**
- **Ground Independent**
- **Robust Construction**

UM002 Mounting Bracket sold separately.



Made in the USA
ISO 9001:2015 Certified
(1Y02700)

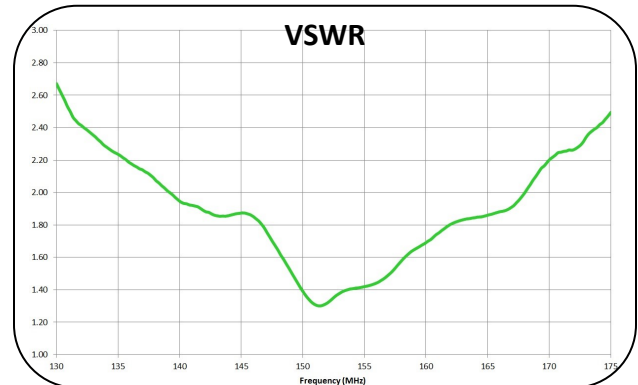
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Vehicular Broadband Antenna

Specifications

ELECTRICAL:

Frequency Range:	132-174 MHz
Gain:	2.0 dBi Nominal
VSWR:	< 2.5:1 Typical 2.75:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	20 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	Type N Female



MECHANICAL:

Overall Height:	53 in. (1.35 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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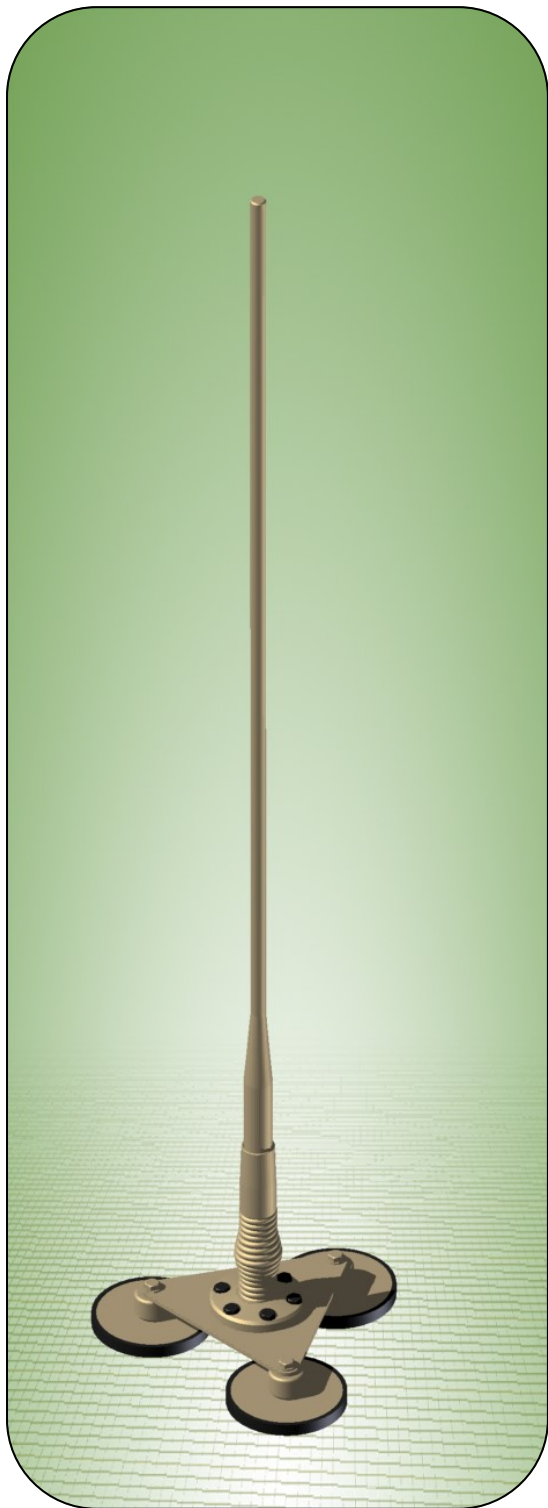
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Mobile Broadband Antenna



The MVMP146/449 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios at the 146 & 449 MHz band.

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.

Magnetic mount, shown left, sold separately.



Made in the USA
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(1Y01800)

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Mobile Broadband Antenna

Specifications

ELECTRICAL:

Frequency Range:	4 Bands within 100-500 MHz
Gain:	4.5 dBi +/- .5
VSWR:	1.5:1 Nominal
Input Impedance:	50 Ω Nominal
Power:	70 Watts
Polarization:	Omnidirectional
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	55 in. (1.40 m)
Net Weight:	5 lb. (2.27 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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(1Y01800)

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Low Profile VHF Antenna



The MVMP149-175 is a state of the art low profile wide band VHF antenna that operates with all radios within the 149-175 MHz band. The low profile design allows the antenna to be used in vehicles that encounter clearance issues or for vehicles in which the functionality of a low profile design is preferred.

This antenna features the ability to capacitively couple to the ground plane which allows it to function without metal to metal contact.

- **Low Profile**
- **Robust Construction**
- **Unity Gain**
- **NMO Mounting (Please inquire about other mounting options)**

Mounting Bracket sold separately.



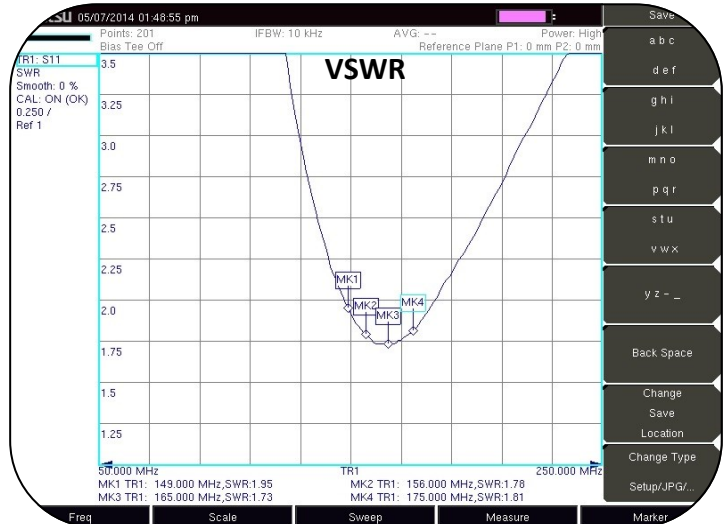
Low Profile VHF Antenna Specifications

ELECTRICAL:

Frequency Range:	149-175 MHz
Gain:	Unity
VSWR:	< 2.0:1 Max
Input Impedance:	50 Ω Nominal
Power:	100 Watts (Peak)
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 80°
Input Connector:	Type NMO

MECHANICAL:

Overall Height:	6" (152 mm)
Radome Diameter:	4.5" (114 mm)
Weight:	1 lb (.45 kg)
Wind Survivability:	150 MPH
Color:	Painted to customer Spec



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Made in the USA
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(1Y20350)

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Mobile Vehicular Antenna



The MVMP153-163 monopole antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 153-163 MHz band.

This antenna has an instantaneous band width of 10 MHz over the operating band of 153-163 MHz with a VSWR of 2.0:1 or less at any frequency within the operational band at power inputs of up to 20 Watts.

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.

MM003 Magnetic Mount sold separately.



Made in the USA
ISO 9001:2015 Certified
(1Y05550)

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Mobile Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range:	153-163 MHz
VSWR:	2.0:1 Nominal
Input Impedance:	50 Ω Nominal
Power:	20 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	PSC-5

MECHANICAL:

Overall Height:	20 in. (0.51 m)
Color:	Black/Green/Tan/Grey
Mounting:	MM003 Magnetic Mount (Sold Separately)

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Mobile Dipole Antenna



The MVDP200X3 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 200-500 MHz band.

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.



Mobile Dipole Antenna

Specifications

ELECTRICAL:

Frequency Range:	200-500 MHz
Gain:	0.0 ~ 2.0 dBi
VSWR:	3.5:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	100 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
EMP Protection:	Included
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	40 in. (1.02 m)
Net Weight:	4.5 lb. (2.04 kg)
Color:	Black/Green/Tan/Grey
Operational Temps:	-40° to +158°F (-40° to +70°C)
Mounting:	Six 1/4" (6.35 mm) holes equally spaced on a 3 1/16" (77.79 mm) diameter circle.

****All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.**

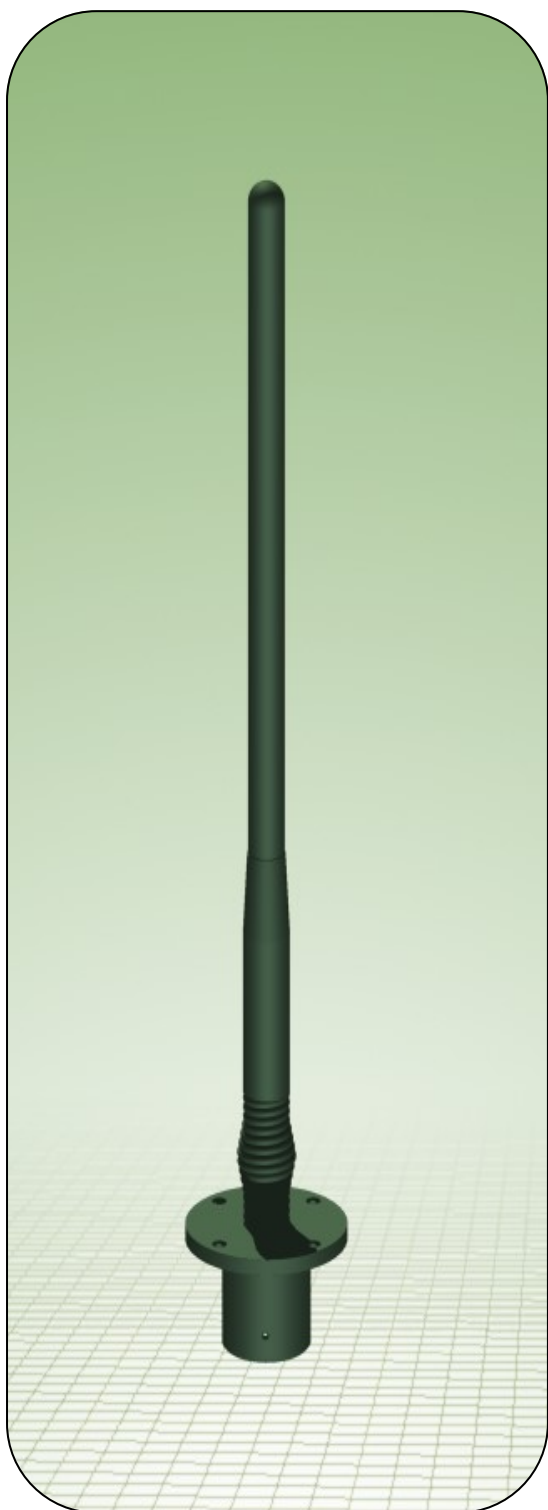
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(1Y05050)

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Mobile Dipole Antenna



The MVDP225X2 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 225-450 MHz band.

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.



Mobile Dipole Antenna

Specifications

ELECTRICAL:

Frequency Range:	225-450 MHz
Gain:	0.0 ~ 2.0 dBi
VSWR:	3.5:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	60 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
EMP Protection:	Included
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	40 in. (1.02 m)
Net Weight:	4.5 lb. (2.04 kg)
Operational Temps:	-40° to +158°F (-40° to +70°C)
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

****All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.**

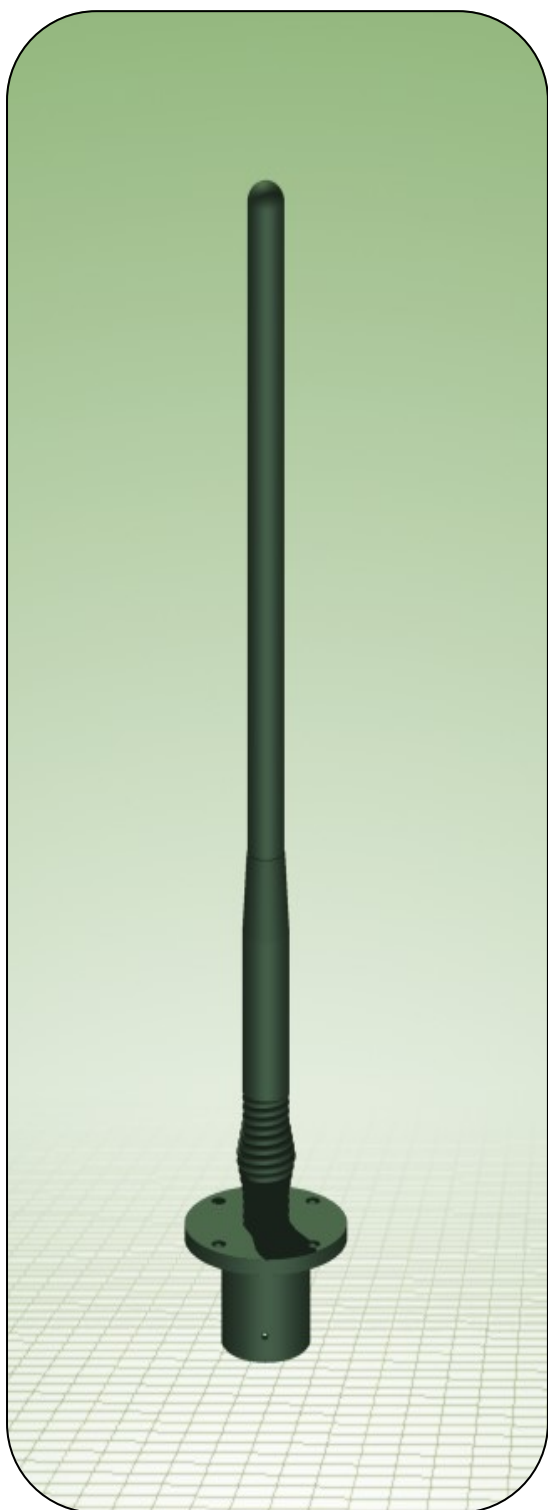
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Mobile Dipole Antenna



The MVDP225X2AB antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all frequency hopping radios within the 225-512 MHz band.

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.



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Mobile Dipole Antenna

Specifications

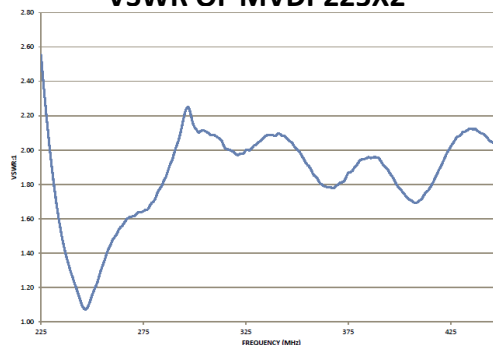
ELECTRICAL:

Frequency Range:	225-512 MHz
Gain:	-1.5 dBi (225-512 MHz) +0.5 dBi (325-512 MHz)
VSWR:	2.5:1 Nominal
Input Impedance:	50 Ω Nominal
Power:	50 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
EMP Protection:	Included
Input Connector:	N

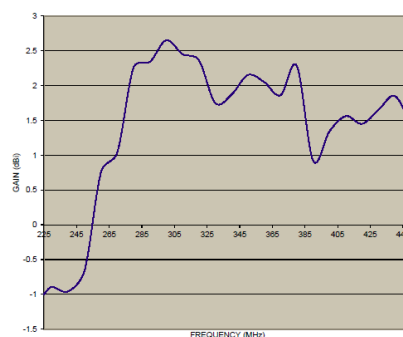
MECHANICAL:

Overall Height:	40 in. (1.02 m)
Net Weight:	4.5 lb. (2.04 kg)
Operational Temps:	-40° to +158°F (-40° to +70°C)
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

VSWR OF MVDP225X2



GAIN PATTERN AT 50 WATTS



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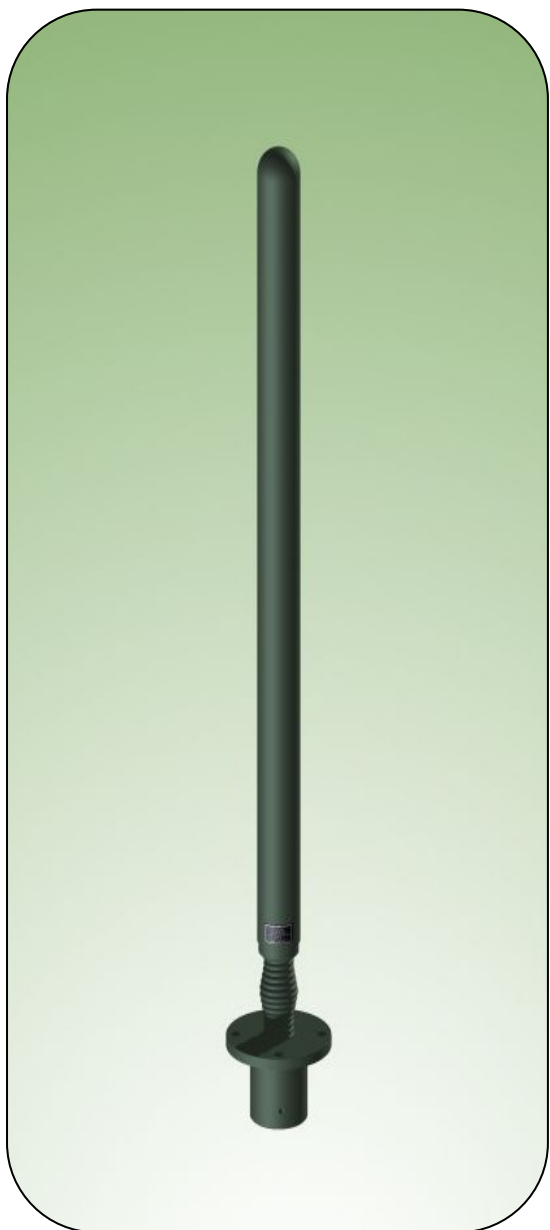
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Mobile Dipole Antenna



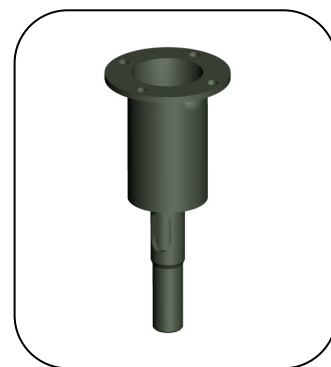
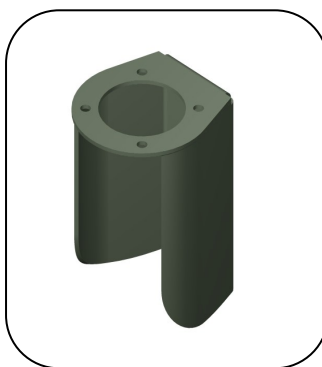
The MVDP225X9 antenna is designed to be mounted on military and other off-road vehicles and works with all UHF frequency hopping radios within the 225-2000 MHz band.

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.

Vehicular Mount*

Mast Mount*



*Mounting brackets sold separately. Other mount styles available.



Mobile Dipole Antenna

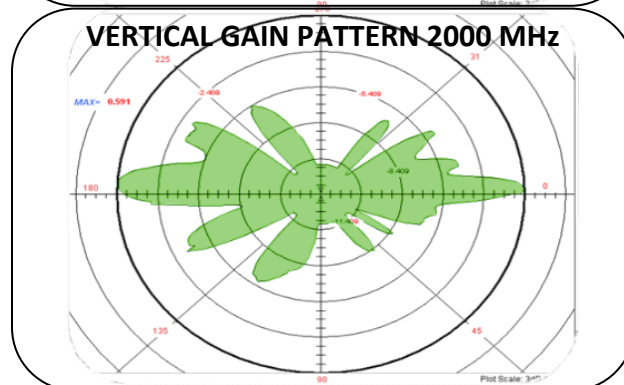
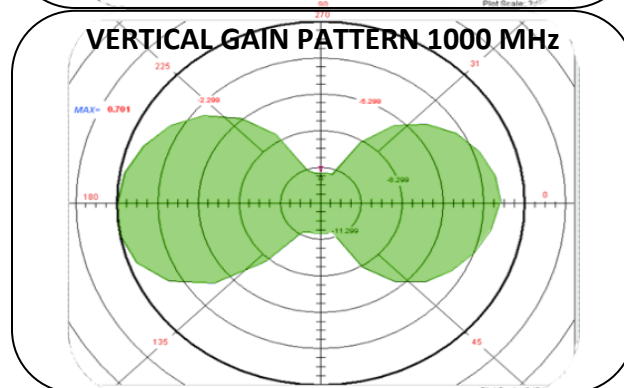
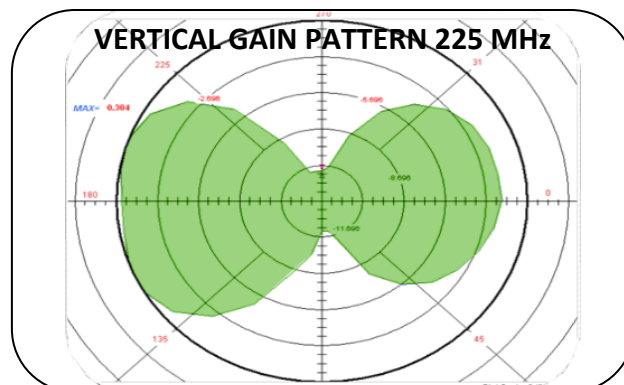
Specifications

ELECTRICAL:

Frequency Range:	225-2000 MHz
Gain:	0.0 dBi Nominal
VSWR:	2.5:1 Nominal
Input Impedance:	50 Ω Nominal
Power:	100 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	44.75 in. (1.14 m)
Radome Diameter:	2.25 in. (57.15 mm)
Net Weight:	< 10 lb. (< 4.5 kg)
Operational Temps:	-40° to +158°F (-40° to +70°C)
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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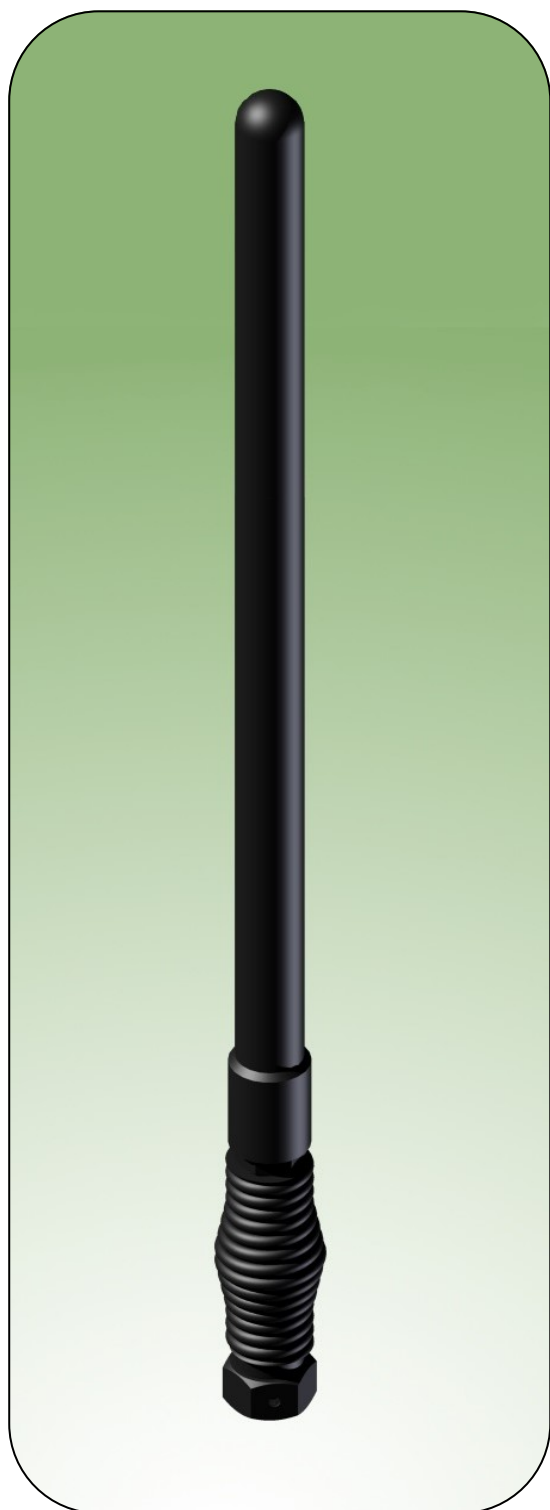
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Mobile Broadband Antenna



The MADP360-440 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 360-440 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.

- **Low VSWR**
- **Rugged Design**

UM004AB Mounting Bracket sold separately.



Mobile Broadband Antenna

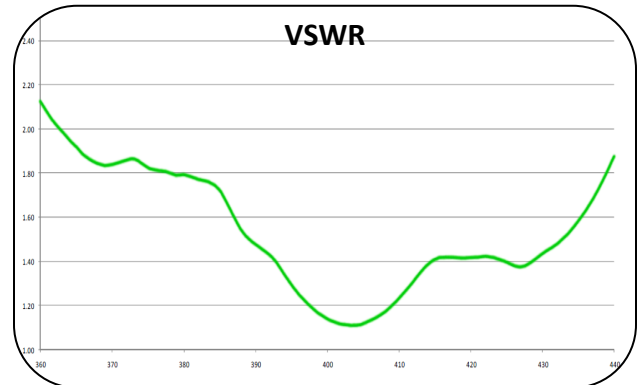
Specifications

ELECTRICAL:

Frequency Range:	360-440 MHz
Gain:	2.0 dBi Nominal
VSWR:	< 2.0:1 Typical 2.2:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	30 Watts
Polarization:	Vertical
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	32 in. (0.81 m)
Maximum Wind Load:	115 mph (185 km/h)
Net Weight:	4 lb. (1.81 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
Color:	Black/Green/Tan/Grey
Mounting:	UM004AB Mounting Bracket (Sold Separately)



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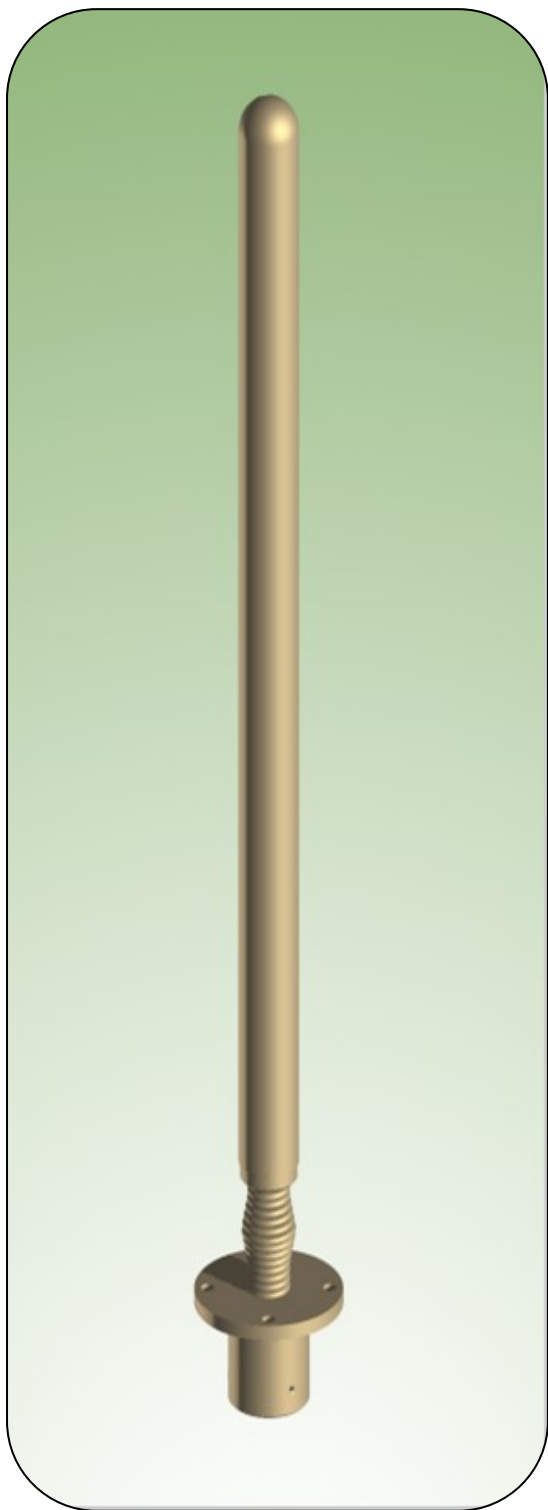
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(1Y08150)

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Broadband Multi-Input Antenna



The MVDP400X5 antenna is designed to be mounted on military and other off-road vehicles and works with all radios within the 410-2100 MHz band and L1/L2 GPS.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior 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. This antenna will meet or exceed MIL-STD-810 environmental standards.



Broadband Multi-Input Antenna Specifications

ELECTRICAL:

Frequency Range:	410-2100 MHz 1575.42 MHz (L1 GPS) 1227.60 MHz (L2 GPS)
Gain:	0.0 ~ 2.0 dBi +/- .5
VSWR:	2:1 Maximum
LNA Gain:	29 dB Minimum
Element Gain:	3 dBiC Min. RHCP Polarization
LNA DC Power:	2.5 - 16 VDC (35 mA Max)
Input Impedance:	50 Ω Nominal
Power:	60W Continuous 100 Watts Intermittent
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	(2) Type N Female (1) Type TNC (GPS)

MECHANICAL:

Overall Height:	46 in. (1.17 m)
Net Weight:	< 10 lb. (< 4.5 kg)
Operational Temps:	-40° to +158°F (-40° to +70°C)
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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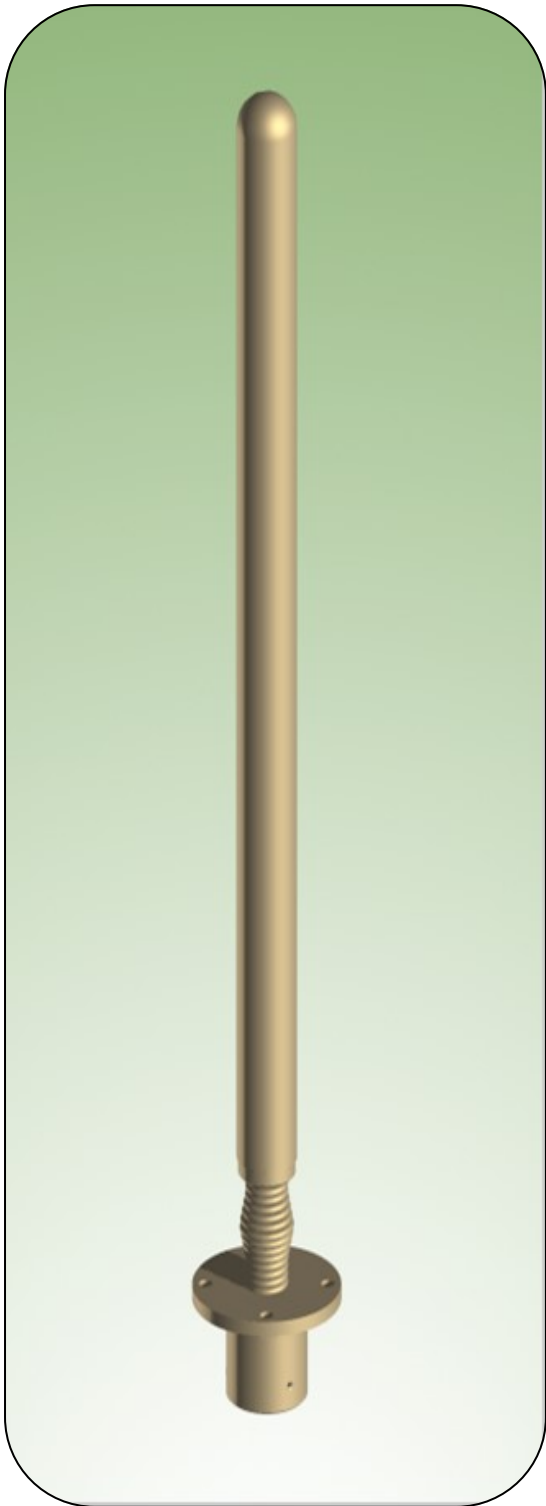
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(1Y10500)

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Broadband Dual-Input Antenna



The MVDP400X5AB antenna is designed to be mounted on military and other off-road vehicles and works with all radios within the 410-2100 MHz band and L1/L2 GPS.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior 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. This antenna will meet or exceed MIL-STD-810 environmental standards.



Broadband Dual-Input Antenna

Specifications

ELECTRICAL:

Frequency Range:	410-2100 MHz 1575.42 MHz (L1 GPS) 1227.60 MHz (L2 GPS)
Gain:	0.0 ~ 2.0 dBi +/- .5
VSWR:	3.0:1 Maximum
LNA Gain:	29 dB Minimum
Element Gain:	3 dBiC Min. RHCP Polarization
LNA DC Power:	2.5 - 16 VDC (35 mA Max)
Input Impedance:	50 Ω Nominal
Power:	60W Continuous 100 Watts Intermittent
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
Input Connector:	(1) Type N Female (1) Type TNC Female (GPS)

MECHANICAL:

Overall Height:	34 in. (0.86 m)
Net Weight:	< 10 lb. (< 4.5 kg)
Operational Temps:	-40° to +158°F (-40° to +70°C)
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.**



Made in the USA
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(1Y11750)

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Vehicular Broadband Antenna



The MVDP438-470 antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 438-470 MHz band.

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.

UM002 Mounting Bracket sold separately.



Made in the USA
ISO 9001:2015 Certified
(1Y02725)

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Vehicular Broadband Antenna

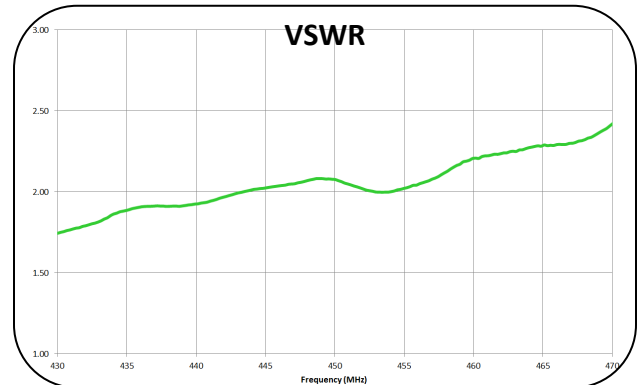
Specifications

ELECTRICAL:

Frequency Range:	438-470 MHz
VSWR:	2.5:1 Maximum
Input Impedance:	50 Ω Nominal
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°

MECHANICAL:

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.



****All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.**

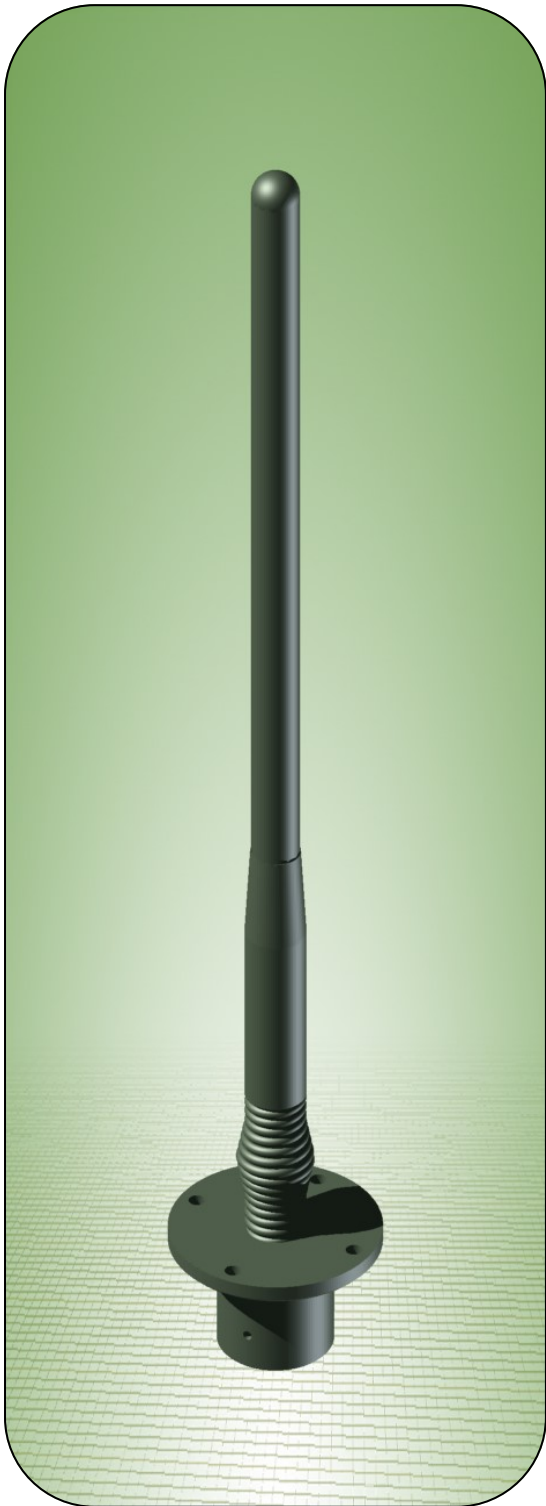
****Specifications are subject to change without prior notice.**



Made in the USA
ISO 9001:2015 Certified
(1Y02725)

P.O. Box 909, Palmetto, Florida 34220-0909
Tel: 941-723-2833 • Fax: 941-723-1628
www.hascall-denke.com

Mobile Dipole Antenna



The MVDP470X2 antenna is designed to be designed to be mounted on military and other off-road vehicles and work with all frequency hopping radios within the 470-700 MHz band.

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 double reinforced at the base and is constructed from corrosion resistant materials for reliability in the harshest environments.



Made in the USA
ISO 9001:2015 Certified
(1Y07150)

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Mobile Dipole Antenna

Specifications

ELECTRICAL:

Frequency Range:	470-700 MHz
Gain:	0.0 ~ 2.0 dBi
VSWR:	3.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	30 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 90°
EMP Protection:	Included
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	32 in. (0.81 m)
Net Weight:	4 lb. (1.81 kg)
Operational Temps:	-40° to +158°F (-40° to +70°C)
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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Mobile Dipole Antenna



The MVDP500X5 antenna is designed to be mounted on military and other off-road vehicles and work with all frequency hopping radios within the 500-2500 MHz band.

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. The Radiator elements are made of brass tubing for maximum conductivity.

Mounting Bracket sold separately.



Made in the USA
ISO 9001:2015 Certified
(1Y03700)

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Tel: 941-723-2833 • Fax: 941-723-1628
www.hascall-denke.com

Mobile Dipole Antenna

Specifications

ELECTRICAL:

Frequency Range: 500-2500 MHz

Gain: 0.0 ~ 3.0 dBi

VSWR: 3.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 30 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 90°

EMP Protection: Included

Input Connector: Type N Female

MECHANICAL:

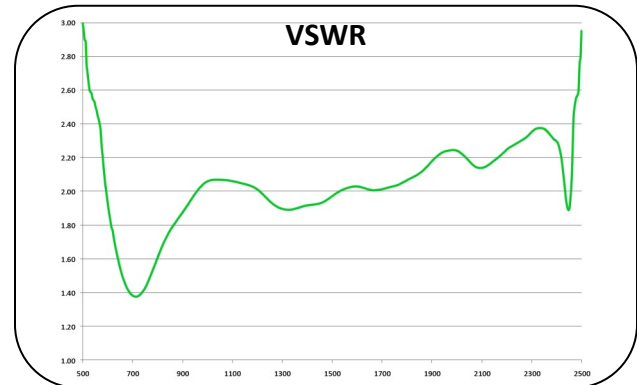
Overall Height: 32 in. (0.81 m)

Net Weight: 4 lb. (1.81 kg)

Operational Temps: -40° to +158°F
(-40° to +70°C)

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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(1Y03700)

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Omnidirectional Vehicular Antenna



The MVDP700-960-5 antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 700-960 MHz band.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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.

- **User Friendly and Easy to Install**
- **360° Azimuth Coverage**
- **Ideal Pattern/Beam Width and Sidelobe Control**
- **Radiator Located at Top of Antenna for Maximum Emission Performance**
- **Plug & Play Design**



Made in the USA
ISO 9001:2015 Certified
(1Y30800)

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Tel: 941-723-2833 • Fax: 941-723-1628
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Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range: 700-960 MHz

Gain: 5.0 dBi +/- .5

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 40 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 67°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 30 in. (0.76 m)

Radome: 1.50 in. OD (38.1 mm)

Net Weight: 5.3 lb. (2.4 kg)

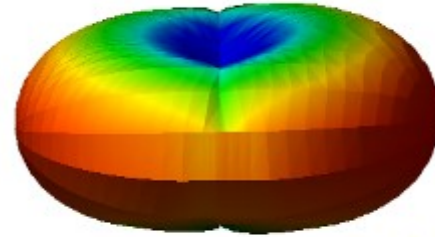
Operational Temps: -40° to +158°F (-40° to +70°C)

Color: Black/Green/Tan/Grey

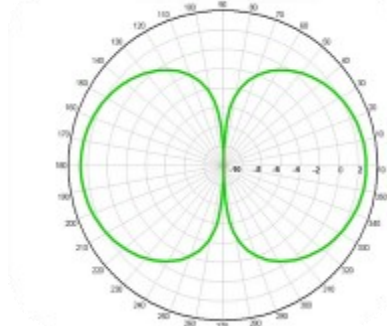
Mounting: NATO Standard Four .5" (12.7 mm)
Holes, equally spaced on a 4.5"
(114.3 mm) Dia. BHC

Compliance: Built to meet: MIL-STD-810F

3D REFERENCE



ELEVATION PATTERN REFERENCE



VSWR



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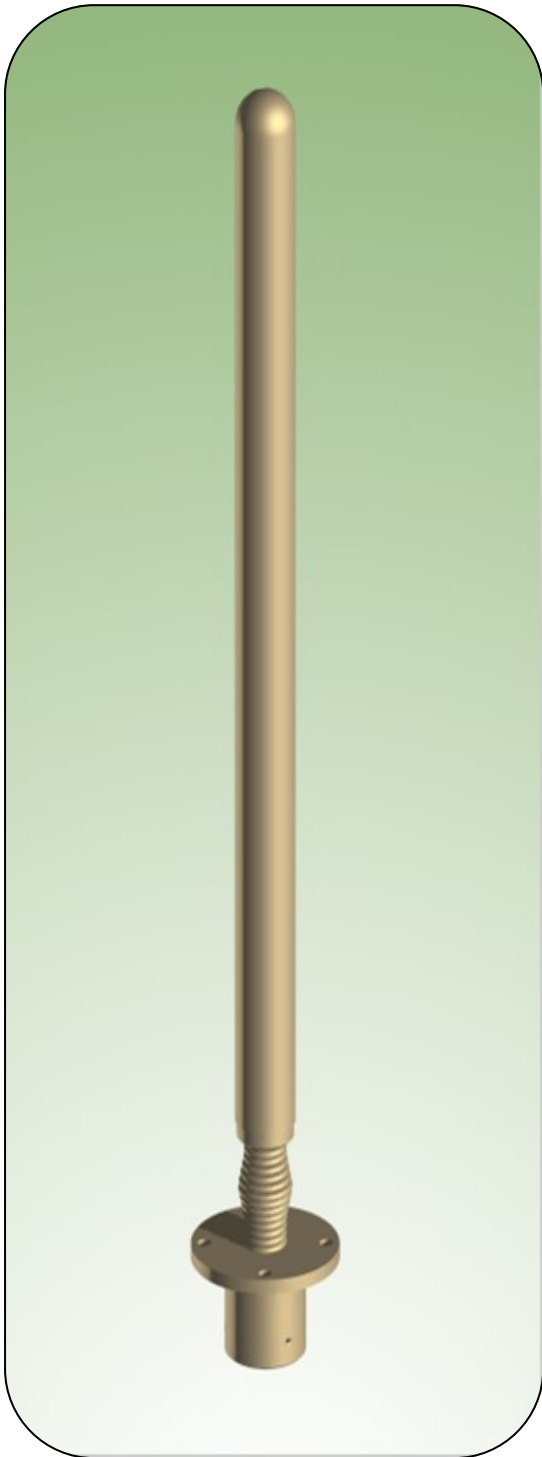
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(1Y30800)

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Dual Band Dual Input Antenna



The MVDP800X3AC dual band antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 806-960 and 1800-2170 MHz bands.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications whether used in a MIMO, Diversity, or Separate Radio application.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. The elements are engineered for additional isolation performance between the inputs.

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.

- **Dual Input Design**
- **Vehicle Space Reduction**
- **MIMO, Diversity, or Separate Radio Ready**
- **Ideal Pattern/Beam Width and Sidelobe Control**
- **Designed to Reduce BER (Bit Error Rate)**
- **NATO Base Spring Mount**
- **Plug & Play Design**



Dual Band Dual Input Antenna

Specifications

ELECTRICAL:

Frequency Range: 806-960 & 1800-2170 MHz

Gain: 4.0 ~ 5.0 dBi +/- .5

VSWR: 2.0:1 Typical (In Bands)
2.5:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 60 Watts Max

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 42°

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 47 in. (1.19 m)

Radome Diameter: 1.25 in. (31.8 mm)

Maximum Wind Load: 150 mph (241 km/h)

Net Weight: <10 lb. (< 4.5 kg)

Operational Temps: -40° to +185°F
(-40° to +85°C)

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

****All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.**

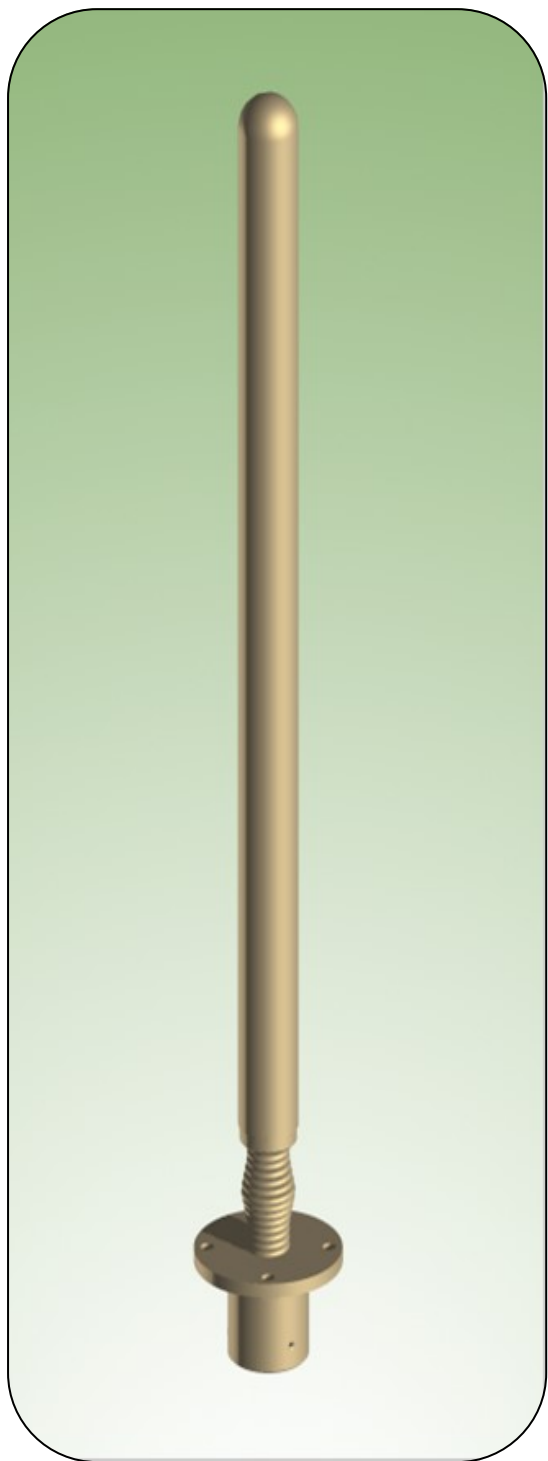
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Made in the USA
ISO 9001:2015 Certified
(1Y16500)

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Dual Band Dual Input Antenna



The MVDP800X3AC dual band antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 806-960 and 1800-2170 MHz bands including L1/L2 GPS.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. The elements are engineered for additional isolation performance between the inputs.

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. This antenna is built to meet or exceed MIL-STD-810F environmental standards.

- **Dual Input Design**
- **Vehicle Space Reduction**
- **Ground Independent**
- **MIMO, Diversity, or Separate Radio Ready**
- **Ideal Pattern/Beam Width and Sidelobe Control**
- **Designed to Reduce BER (Bit Error Rate)**
- **NATO Base Spring Mount**
- **Plug & Play Design**



Dual Band Dual Input Antenna

Specifications

ELECTRICAL:

Frequency Range: 806-960 & 1800-2170 MHz
1575.42 MHz (L1 GPS)
1227.60 MHz (L2 GPS)

Gain: 4.0 ~ 5.0 dBi +/- .5

VSWR: 2.1:1 Maximum (In Bands)

Input Impedance: 50 Ω Nominal

Power: 60 Watts Max

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 42°

Input Connector: (2) Type N Female
(1) Type TNC (GPS)

MECHANICAL:

Overall Height: 47 in. (1.19 m)

Radome Diameter: 1.25 in. (31.8 mm)

Maximum Wind Load: 150 mph (241 km/h)

Net Weight: <10 lb. (< 4.5 kg)

Operational Temps: -40° to +185°F
(-40° to +85°C)

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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Made in the USA
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(1Y14350)

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Dual Polarization Omnidirectional Antenna



The MVDP1350-2700-D antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 1350-2700 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from 34 ~ 45 dB.

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.



Made in the USA
ISO 9001:2015 Certified
(1Y26250)

P.O. Box 909, Palmetto, Florida 34220-0909
Tel: 941-723-2833 • Fax: 941-723-1628
www.hascall-denke.com

Dual Polarization Omnidirectional Antenna Specifications

ELECTRICAL:

Frequency Range:	1350-2700 MHz
Gain:	0.0 ~ 2.0 dBi +/- .5
VSWR:	3.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	25 Watts
Polarization:	Dual Horizontal & Vertical
Port-to-Port Isolation:	34 ~ 45 dB Typical
Radiation Pattern:	Azimuth: 360° Elevation: 68°
Input Connector:	(2) Type N Female

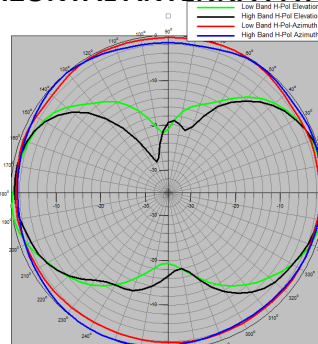
MECHANICAL:

Length:	24.75 in. (0.63 m)
Radome Diameter:	2.75 in. (70 mm)
Net Weight:	5.7 lb. (2.59 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
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

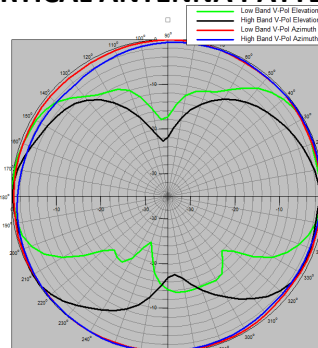
****All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.**

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

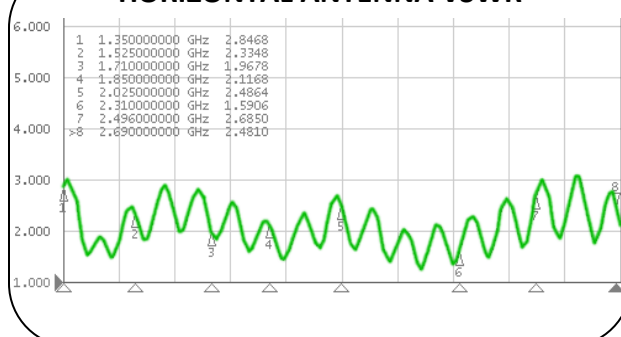
HORIZONTAL ANTENNA PATTERN



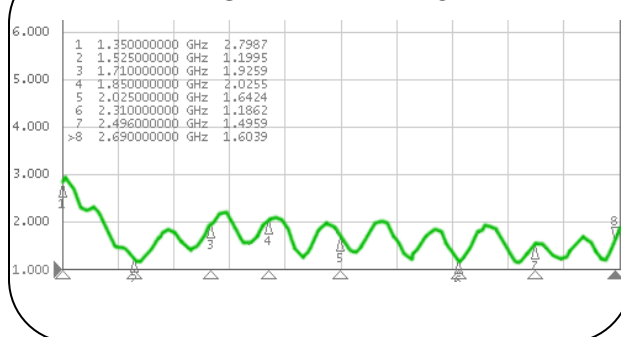
VERTICAL ANTENNA PATTERN



HORIZONTAL ANTENNA VSWR



VERTICAL ANTENNA VSWR



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Omnidirectional Vehicular Antenna



The MVDP1400-1650-2 antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 1400-1650 MHz band.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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.

- **User Friendly and Easy to Install**
- **360° Azimuth Coverage**
- **Ideal Pattern/Beam Width and Sidelobe Control**
- **Radiator Located at Top of Antenna for Maximum Emission Performance**
- **Plug & Play Design**



Made in the USA
ISO 9001:2015 Certified
(1Y17700)

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Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range:	1400-1650 MHz
Gain:	2.0 ~ 3.0 dBi +/- .5
VSWR:	< 2.0:1 Typical
Input Impedance:	50 Ω Nominal
Power:	40 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 67°
EMP Protection:	Included
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	30 in. (0.76 m)
Net Weight:	4 lb. (1.81 kg)
Operational Temps:	-40° to +158°F (-40° to +70°C)
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

****All information on this product and the product itself is the property of and is proprietary to Hascall-Denke.**

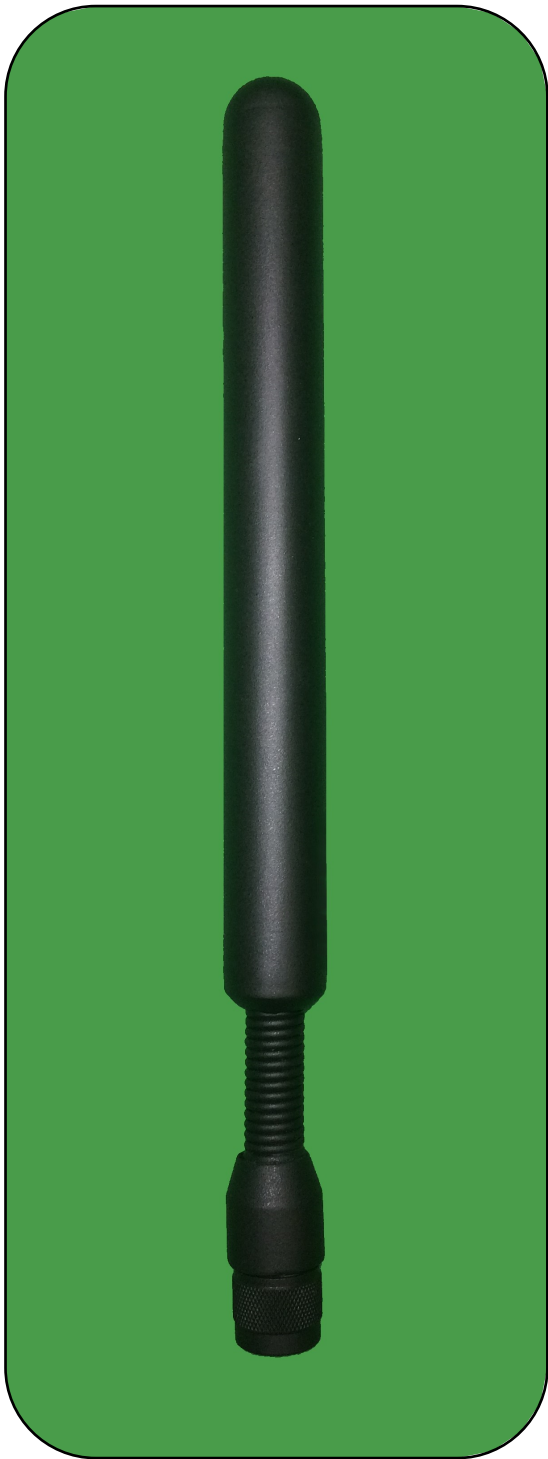
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(1Y17700)

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Omnidirectional Vehicular Antenna



The MVDP1755-1815/2200-2270 antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 1755-1815 & 2200-2270 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion has a spring for maximum deflection with a 1 inch stainless steel nut for mounting.

- **Made with Corrosion Resistant Materials**
- **Spring Base for Maximum Deflection**
- **Superior Electrical Performance**
- **Designed to Meet All MOD Specifications**

MM003 Mounting Bracket sold separately.



Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range: 1755-1815 & 2200-2270 MHz

Gain: 4.0 dBi +/- .5

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 20 Watts PEP

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 55°

Input Connector: Type N Male

MECHANICAL:

Overall Height: 12 in. (305 mm)

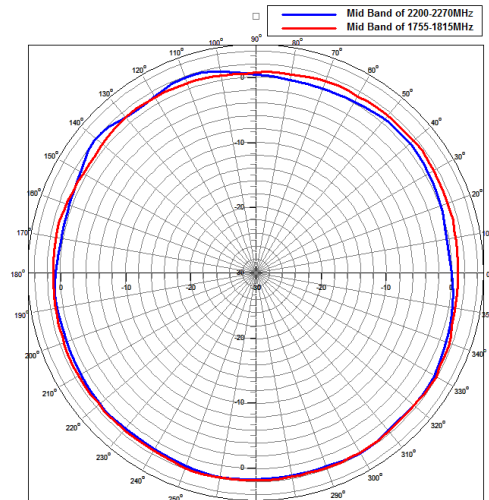
Radome: 1 in. OD (25 mm)

Net Weight: .5 lbs. (.23 kg)

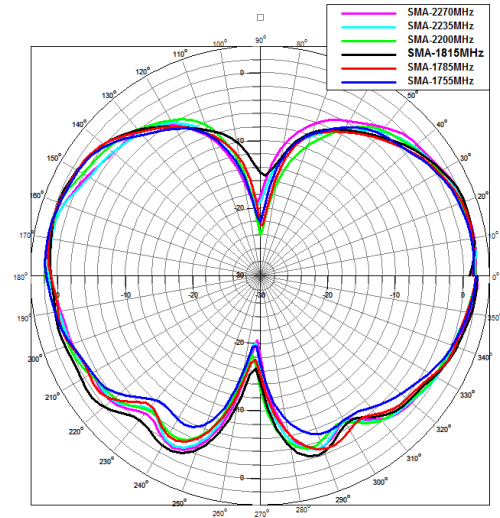
Compliance: Built to meet: MIL-STD-810F

Color: Black/Green/Tan/Grey

H-PLANE PATTERN REFERENCE



E-PLANE PATTERN REFERENCE



VSWR



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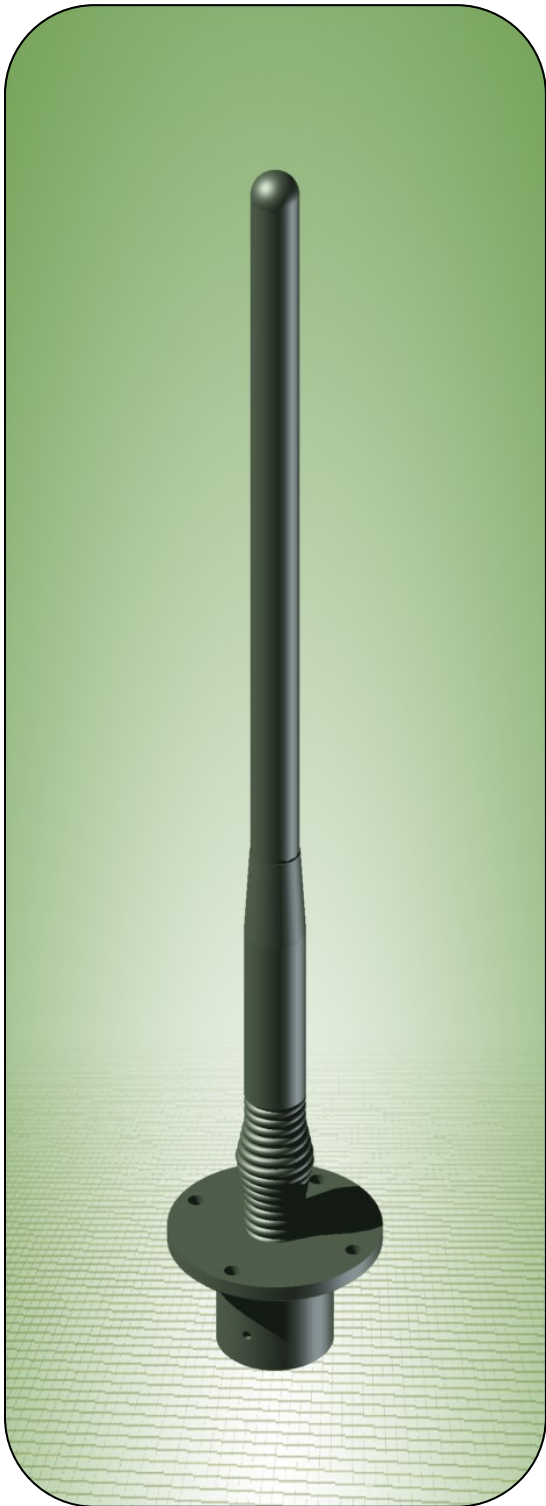
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Made in the USA
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(1Y30100)

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www.hascall-denke.com

Omnidirectional Vehicular Antenna



The MVDP1755-1815/2200-2270-4 antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 1755-1815 & 2200-2270 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion has a spring for maximum deflection with a 1 inch stainless steel nut for mounting.

- **Made with Corrosion Resistant Materials**
- **Spring Base for Maximum Deflection**
- **Superior Electrical Performance**
- **Designed to Meet All MOD Specifications**

MM003 Mounting Bracket sold separately.



Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range: 1755-1815 & 2200-2270 MHz

Gain: 4.0 dBi +/- .5

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 20 Watts PEP

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 55°

Input Connector: Type N Male

MECHANICAL:

Overall Height: 12 in. (305 mm)

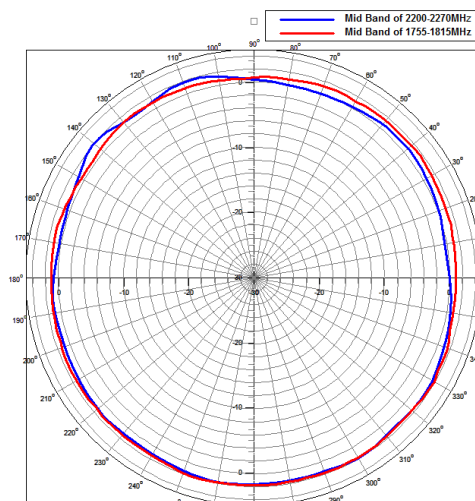
Radome: 1 in. OD (25 mm)

Net Weight: .5 lbs. (.23 kg)

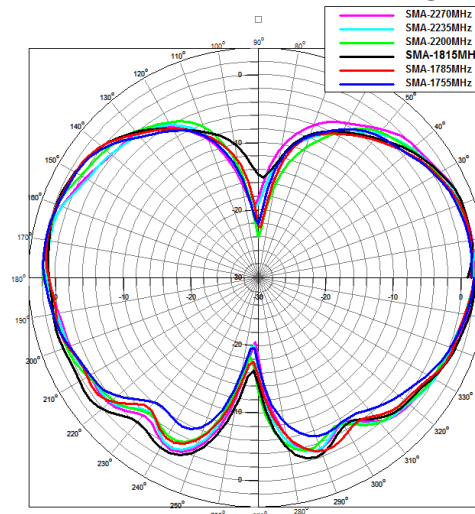
Compliance: Built to meet: MIL-STD-810F

Color: Black/Green/Tan/Grey

H-PLANE PATTERN REFERENCE



E-PLANE PATTERN REFERENCE



VSWR



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Made in the USA
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(1Y39550)

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Omnidirectional Vehicular Antenna



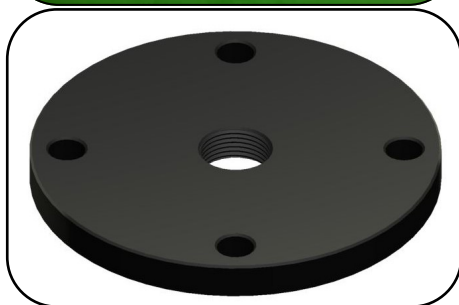
The MVDP2.0-2.5-4 antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 2000-2500 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion has a spring for maximum deflection with a 1 inch stainless steel nut for mounting.

- **Made with Corrosion Resistant Materials**
- **Spring Base for Maximum Deflection**
- **Superior Electrical Performance**
- **Designed to Meet All MOD Specifications**



UM004AB and/or HDM012 Mounting Bracket sold separately.



Made in the USA
ISO 9001:2015 Certified
(1Y17850)

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www.hascall-denke.com

Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range: 2000-2500 MHz

Gain: 4.0 ~ 5.0 dBi

VSWR: 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 25 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 20°

DC Short: Yes

Input Connector: Type N Female

MECHANICAL:

Overall Height: 20 in. (0.51 m)

Radome Base: 1.50 in. OD (38.1 mm)

Radome Main: 1.25 in. OD (31.8 mm)

Net Weight: 1.2 lb. (0.55 kg)

Color: Black/Green/Tan/Grey

Mounting: Stainless Steel Base
(1"-14 UNF Threaded Base Nut)

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(1Y17850)

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Mobile Dipole Antenna



The MVDP2300 antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 2200-2400 MHz band.

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.

Mounting Bracket sold separately.



Made in the USA
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(1Y04500)

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www.hascall-denke.com

Mobile Dipole Antenna

Specifications

ELECTRICAL:

Frequency Range: 2200-2400 MHz

Gain: 2.0 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 30 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 90°

EMP Protection: Included

Input Connector: Type N Female

MECHANICAL:

Overall Height: 54 in. (1.37 m)

Net Weight: 6.5 lb. (2.95 kg)

Operational Temps: -40° to +158°F
(-40° to +70°C)

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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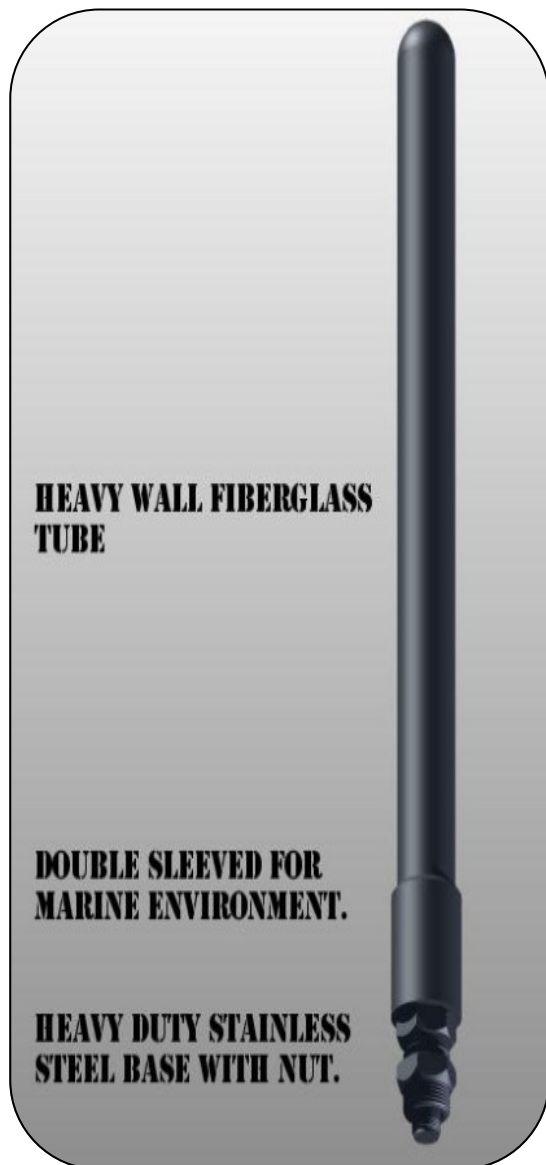
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Tactical Omnidirectional Antenna



The MADP2.2-2.4-6 antenna is designed to be mounted on military, commercial, and other vehicles (including marine craft) where reliability is needed most. This antenna works with all radios within the 2200-2400 MHz band.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.



Tactical Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 2200-2400 MHz

Gain: 6 dBi +/- .5

VSWR: < 1.5:1 Typical

Input Impedance: 50 Ω Nominal

Power: 25 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 20°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 18 in. (0.46 m)

Radome Diameter: 1.25 in. (31.8 mm)

Maximum Wind Load: 150 mph (241 km/h)

Net Weight: 1.0 lb. (0.45 kg)

Operational Temps: -40° to +185°F
(-40° to +85°C)

Color: Black/Green/Tan/Grey

Environmental-to-Navy Shipboard: Yes

Mounting: Stainless Steel Base
(1"-14UNF Threaded Nut)

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Tactical Omnidirectional Antenna



The MADP2.2-2.4-9 antenna is designed to be mounted on military, commercial, and other vehicles (including marine craft) where reliability is needed most. This antenna works with all radios within the 2200-2400 MHz band.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.



Tactical Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 2200-2400 MHz

Gain: 9 dBi +/- .5

VSWR: < 1.5:1 Typical

Input Impedance: 50 Ω Nominal

Power: 100 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 13°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 29 in. (0.74 m)

Radome Diameter: 1.25 in. (31.8 mm)

Maximum Wind Load: 150 mph (241 km/h)

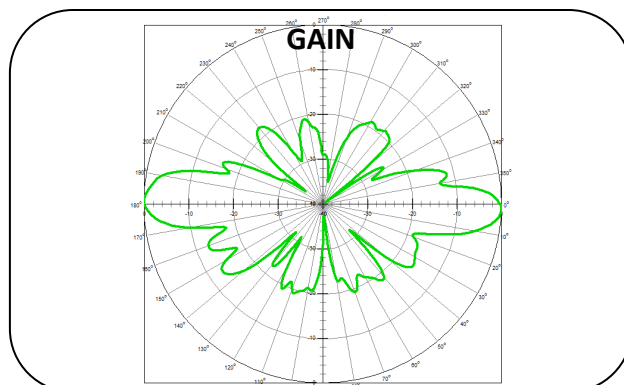
Net Weight: 1.5 lb. (0.68 kg)

Operational Temps: -40° to +185°F
(-40° to +85°C)

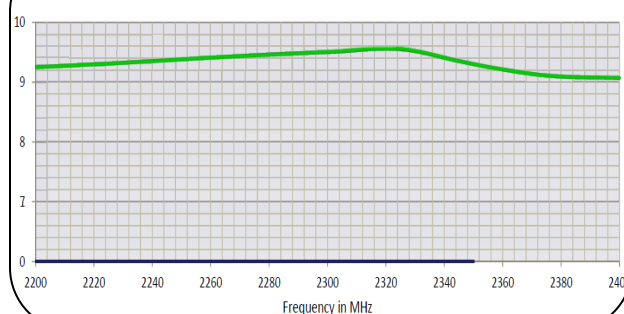
Color: Black/Green/Tan/Grey

Environmental-to-Navy Shipboard: Yes

Mounting: Stainless Steel Base
(1"-14UNF Threaded Nut)



GAIN VS. FREQUENCY



VSWR



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Tactical Omnidirectional Antenna



The MADP2.2-2.4-7 antenna is designed to be mounted on military, commercial, and other vehicles (including marine craft) where reliability is needed most. This antenna works with all radios within the 2200-2400 MHz band.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.



Tactical Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 2200-2400 MHz

Gain: 7 dBi +/- .5

VSWR: < 1.5:1 Typical

Input Impedance: 50 Ω Nominal

Power: 25 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 20°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 18 in. (0.46 m)

Radome Diameter: 1.25 in. (31.8 mm)

Maximum Wind Load: 150 mph (241 km/h)

Net Weight: 1 lb. (0.45 kg)

Operational Temps: -40° to +185°F
(-40° to +85°C)

Color: Black/Green/Tan/Grey

Environmental-to-Navy Shipboard: Yes

Mounting: Stainless Steel Base
(1"-14UNF Threaded Nut)

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Tactical Omnidirectional Antenna



The MADP2.2-2.4-10 antenna is designed to be mounted on military, commercial, and other vehicles (including marine craft) where reliability is needed most. This antenna works with all radios within the 2200-2400 MHz band.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.



Tactical Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range:	2200-2400 MHz
Gain:	10 dBi +/- .5
VSWR:	< 1.5:1 Typical
Input Impedance:	50 Ω Nominal
Power:	100 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 13°
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	29 in. (0.74 m)
Radome Diameter:	1.25 in. (31.8 mm)
Maximum Wind Load:	150 mph (241 km/h)
Net Weight:	1.5 lb. (0.68 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
Color:	Black/Green/Tan/Grey
Environmental-to-Navy Shipboard:	Yes
Mounting:	Stainless Steel Base (1"-14UNF Threaded Nut)

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Tactical Omnidirectional Antenna



The MADP2.2-2.4-2 antenna is designed to be mounted on military, commercial, and other vehicles (including marine craft) where reliability is needed most. This antenna works with all radios within the 2200-2400 MHz band.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.



Tactical Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 2200-2400 MHz

Gain: 2 dBi +/- .5

VSWR: 2.0:1 Max

Input Impedance: 50 Ω Nominal

Power: 25 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 30°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 12 in. (0.30 m)

Radome Diameter: 1.25 in. (31.8 mm)

Maximum Wind Load: 150 mph (241 km/h)

Net Weight: 0.8 lb. (0.36 kg)

Operational Temps: -40° to +185°F
(-40° to +85°C)

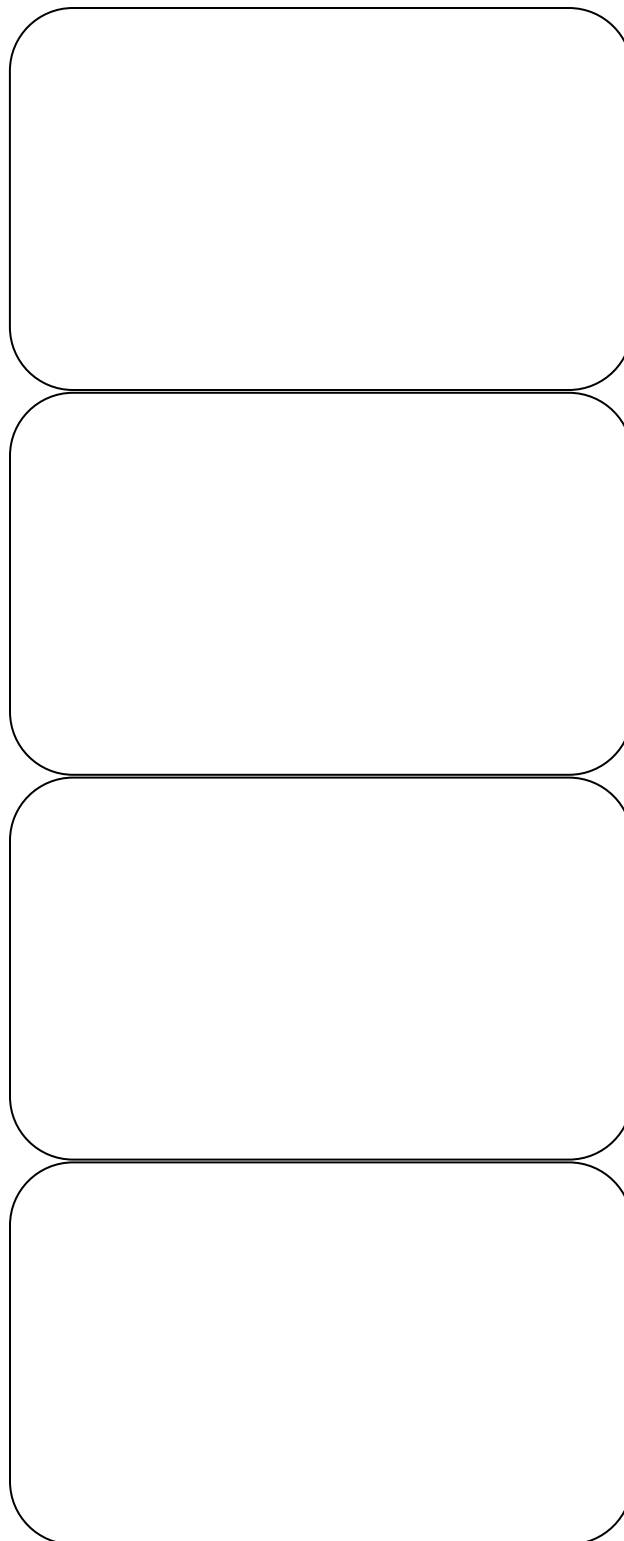
Color: Black/Green/Tan/Grey

Environmental-to-Navy Shipboard: Yes

Mounting: Stainless Steel Base
(1"-14UNF Threaded Nut)

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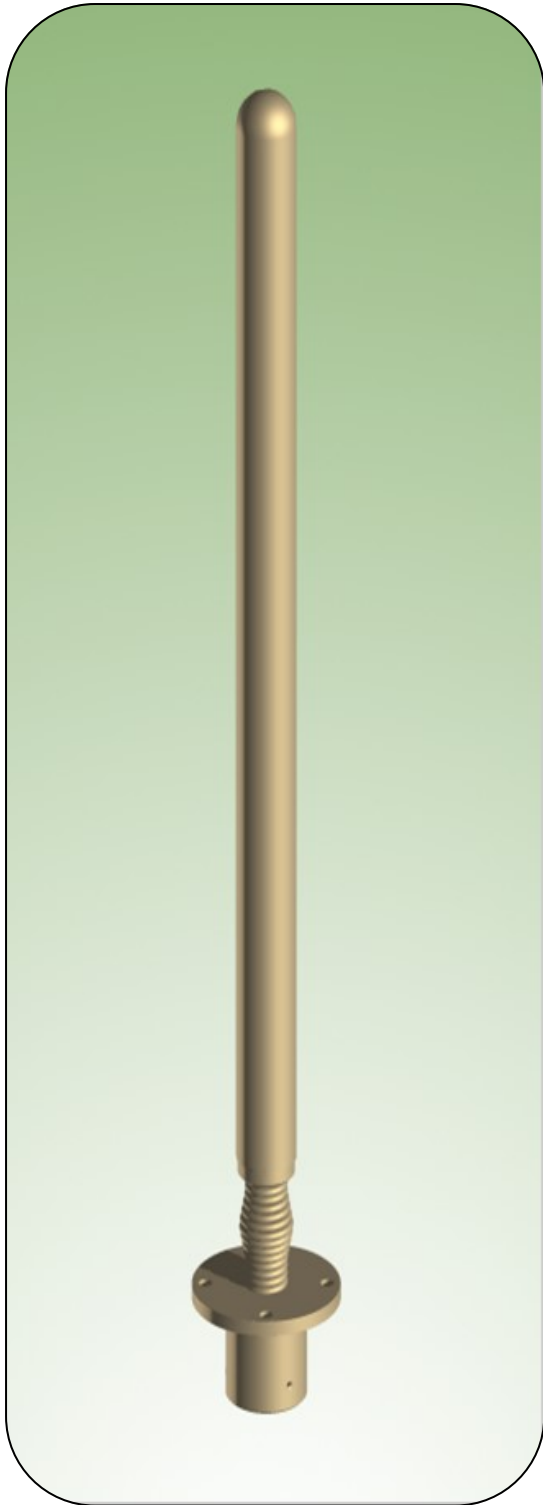
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Dual Input Omnidirectional Antenna



The MVDP2.3-2.5-7 & 1710-2170 antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 1710-2170 & 2300-2500 MHz bands.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications whether used in a MIMO, Diversity, or Separate Radio application.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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 double reinforced at the base and is constructed from corrosion resistant materials for reliability in the harshest environments.

- **Dual Input Design**
- **MIMO, Diversity, or Separate Radio Ready**
- **Superior Isolation**
- **Ideal Pattern/Beam Width and Sidelobe Control**
- **Designed to Reduce BER (Bit Error Rate)**
- **NATO Base Spring Mount**



Dual Input Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range:	1710-2170 & 2300-2500 MHz
Gain:	4.0 ~ 5.0 dBi @ 1710-2170 MHz 6.0 ~ 7.0 dBi @ 2300-2500 MHz
VSWR:	1.5:1 ~ 2.0:1 Typical
Input Impedance:	50 Ω Nominal
Power:	35 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 25° @ 2300-2500 MHz 42° @ 1710-2170 MHz
Input Connector:	(2) Type N Female

MECHANICAL:

Overall Height:	36 in. (0.91 m)
Radome Diameter:	1.25 in. (31.8 mm)
Maximum Wind Load:	150 mph (241 km/h)
Net Weight:	3 lb. (1.4 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
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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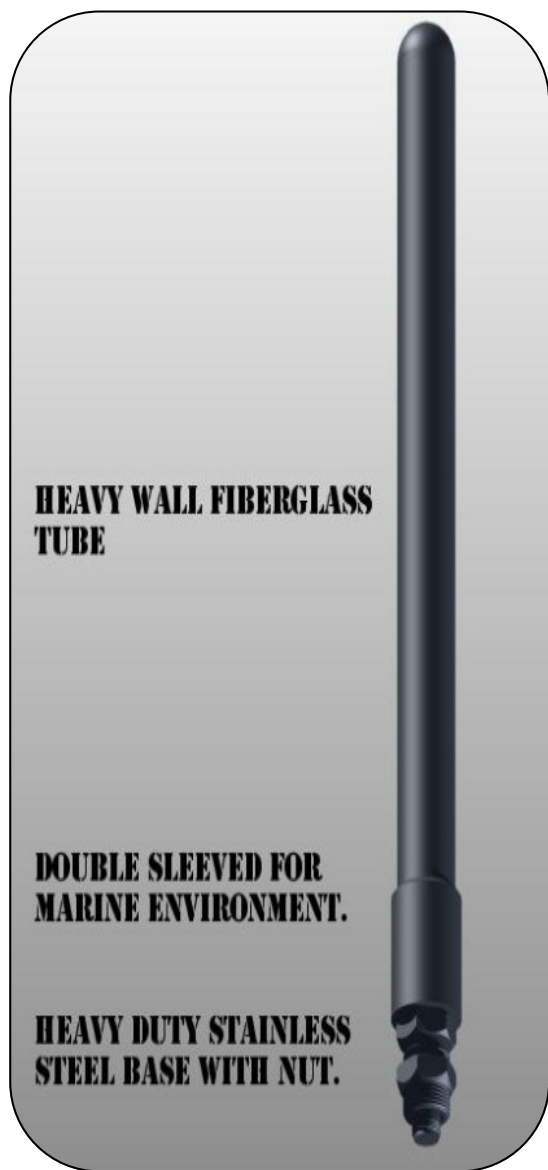
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Tactical Omnidirectional Antenna



The MADP2.3-2.5-7 antenna is designed to be mounted on military, commercial, and other vehicles (including marine craft) where reliability is needed most. This antenna works with all radios within the 2300-2500 MHz band.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.



Tactical Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 2300-2500 MHz

Gain: 7 dBi +/- .5

VSWR: < 2.0:1

Input Impedance: 50 Ω Nominal

Power: 50 Watts Max

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 20°

DC Short: Yes

Input Connector: Type N Female

MECHANICAL:

Overall Height: 18 in. (0.46 m)

Radome Main: 1.25 in. OD (31.8 mm)

Radome Base: 1.50 in. OD (38.1 mm)

Net Weight: 1 lb. (0.55 kg)

Color: Black/Green/Tan/Grey

Environmental-to-Navy Shipboard: Yes

Mounting: Stainless Steel Base
(1"-14UNF Threaded Nut)

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Base Station Omni Antenna



The MADP2.3-2.5-5 antenna is designed to be used in commercial, military and other applications where reliability is needed most. This antenna works with all radios within the 2300-2500 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior 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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.

- **High Data Throughput Design**
- **Gain Flatness for Reduced BER**
- **Beam Stability and Polarization Purity**
- **Exceeds Industry Standards**
- **Tough and Rugged Compact Design**



Base Station Omni Antenna

Specifications

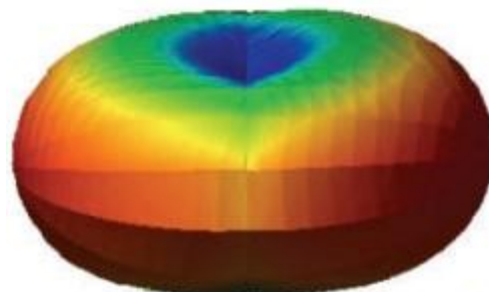
ELECTRICAL:

Frequency Range:	2300-2500 MHz
Gain:	5.0 dBi +/- .5
VSWR:	1.5:1 Typical < 2.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	25 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 37°
DC Short:	Yes
Input Connector:	Type N Female

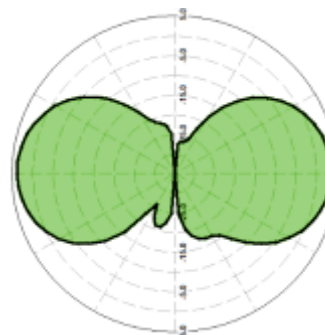
MECHANICAL:

Overall Height:	12 in. (0.30 m)
Radome Diameter:	1.25 in. (31.8 mm) OD
Net Weight:	1.2 lb. (0.55 kg)
Maximum Wind Load:	150 mph (241 km/h)
Operational Temps:	-40° to +185°F (-40° to +85°C)
Color:	Black/Green/Tan/Grey/White
Mounting:	Stainless Steel Base (1-14UNS Threaded Base Nut)

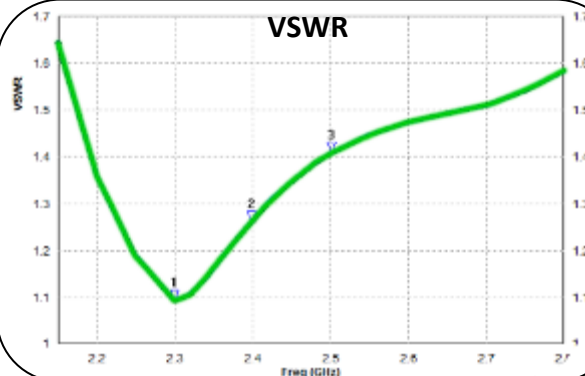
3D REFERENCE



ELEVATION PATTERN REFERENCE



VSWR



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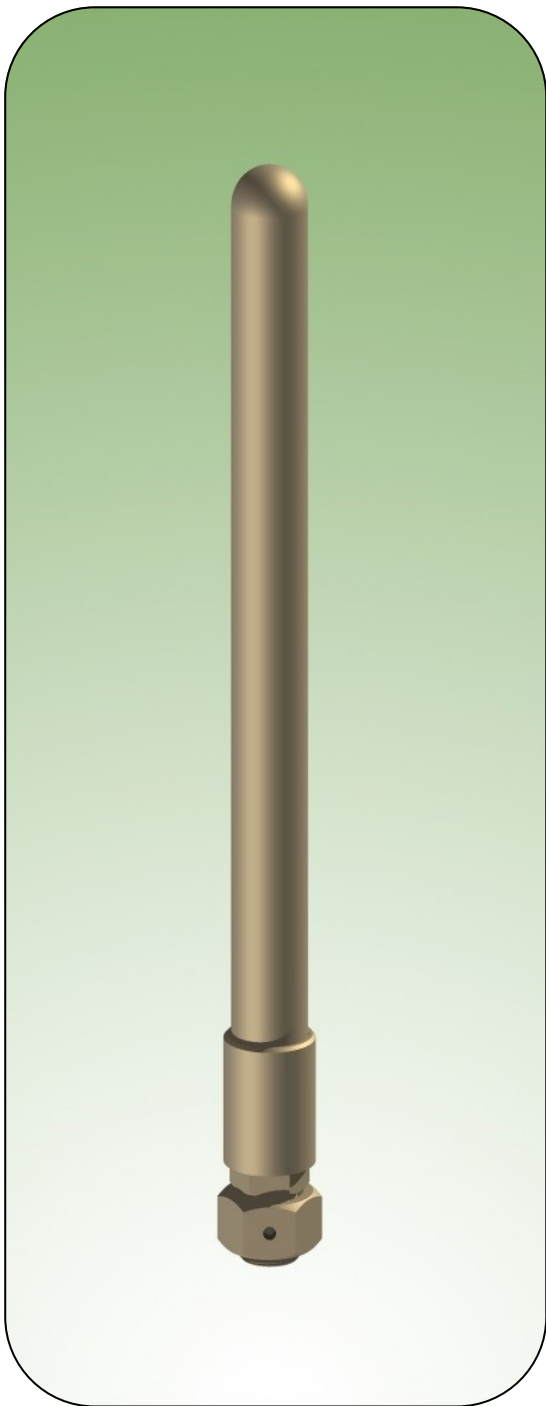
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Omnidirectional Vehicular Antenna



The MADP2.3-2.5-9 antenna is designed to be used in military, commercial, and other vehicles (including marine craft) where reliability is needed most. This antenna works with all radios within the 2300-2500 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.



Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range: 2300-2500 MHz

Gain: 9.0 dBi +/- .5

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 100 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 14°

DC Short: Yes

Input Connector: Type N Female

MECHANICAL:

Overall Height: 24 in. (0.61 m)

Radome Main: 1.25 in. OD (31.8 mm)

Radome Base: 1.50 in. OD (38.1 mm)

Net Weight: 1.2 lb. (0.55 kg)

Color: Black/Green/Tan/Grey

Mounting: Stainless Steel Base
(1"-14UNF Threaded Nut)

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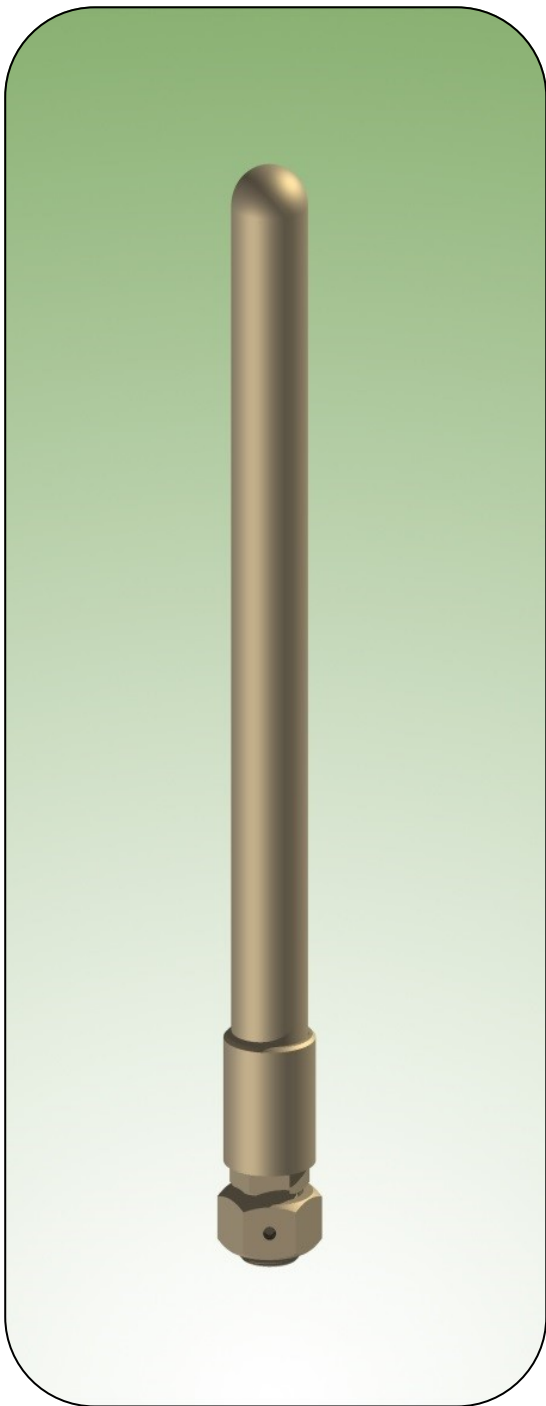
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Omnidirectional Vehicular Antenna



The MADP2.3-2.5-5AB antenna is designed to be used in military, commercial, and other vehicles (including marine craft) where reliability is needed most. This antenna works with all radios within the 2300-2500 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.



Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range: 2300-2500 MHz

Gain: 5.0 dBi +/- .5

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 25 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 37°

DC Short: Yes

Input Connector: Type N Female

MECHANICAL:

Overall Height: 12 in. (0.30 m)

Radome Main: 1.25 in. OD (31.8 mm)

Radome Base: 1.50 in. OD (38.1 mm)

Net Weight: 1.2 lb. (0.55 kg)

Color: Black/Green/Tan/Grey

Mounting: Stainless Steel Base
(1"-14UNF Threaded Nut)

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Omnidirectional Vehicular Antenna



The MVDP2.3-2.5-7 antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 2300-2500 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion has a spring for maximum deflection with a 1 inch stainless steel nut for mounting.

- **Made with Corrosion Resistant Materials**
- **Spring Base for Maximum Deflection**
- **Superior Electrical Performance**
- **Designed to Meet All MOD Specifications**

UM004AB Mounting Bracket sold separately.



Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range: 2300-2500 MHz

Gain: 7.0 dBi +/- .5

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 35 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 24°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 20 in. (0.51 m)

Radome Base: 1.50 in. OD (38.1 mm)

Radome Main: 1.25 in. OD (31.8 mm)

Net Weight: 1.2 lb. (0.55 kg)

Color: Black/Green/Tan/Grey

Mounting: Stainless Steel Base
(1"-14 UNF Threaded Base Nut)

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Omnidirectional Vehicular Antenna



The MVDP2.4-2.7-7 antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 2400-2700 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion has a spring for maximum deflection with a 1 inch stainless steel nut for mounting.

- **Made with Corrosion Resistant Materials**
- **Spring Base for Maximum Deflection**
- **Superior Electrical Performance**
- **Designed to Meet All MOD Specifications**

UM004AB Mounting Bracket sold separately.



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Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range: 2400-2700 MHz

Gain: 7.0 dBi +/- .5

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 35 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 24°

Input Connector: Type N Female

MECHANICAL:

Overall Height: 20 in. (0.51 m)

Radome Base: 1.50 in. OD (38.1 mm)

Radome Main: 1.25 in. OD (31.8 mm)

Net Weight: 1.2 lb. (0.55 kg)

Color: Black/Green/Tan/Grey

Mounting: Stainless Steel Base
(1"-14 UNF Threaded Base Nut)

Compliance Rohs

Operating Temperature -40°C to 85°C

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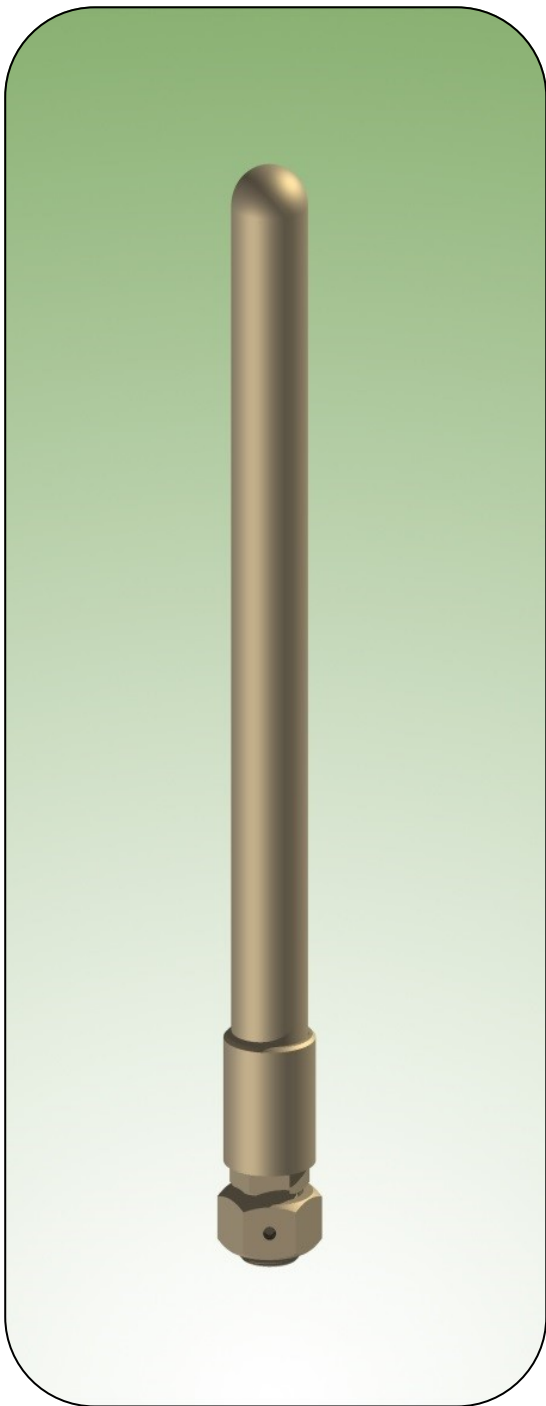
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Omnidirectional Vehicular Antenna



The MADP2.5-2.6-10 antenna is designed to be used in military, commercial, and other vehicles (including marine craft) where reliability is needed most. This antenna works with all radios within the 2500-2600 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.



Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range: 2500-2600 MHz

Gain: 10.0 dBi +/- .5

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 25 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 14°

DC Short: Yes

Input Connector: Type N Female

MECHANICAL:

Overall Height: 30 in. (0.76 m)

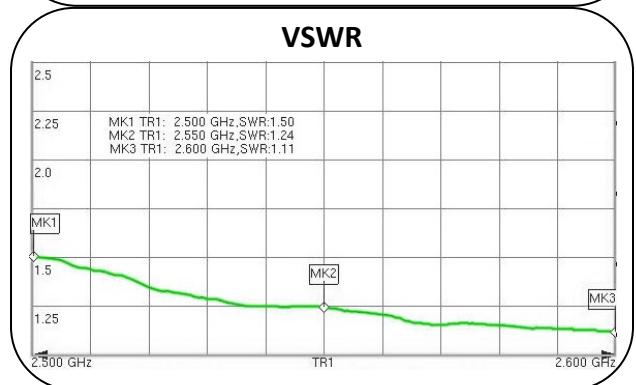
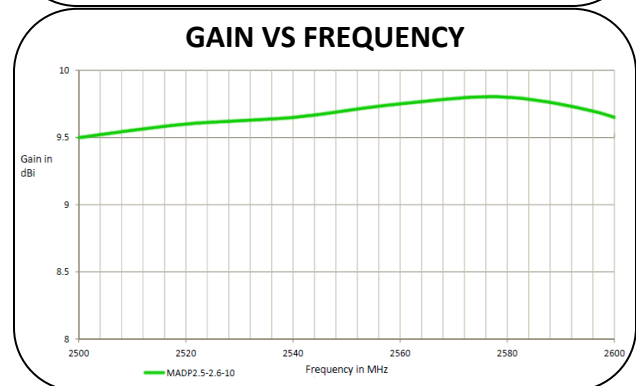
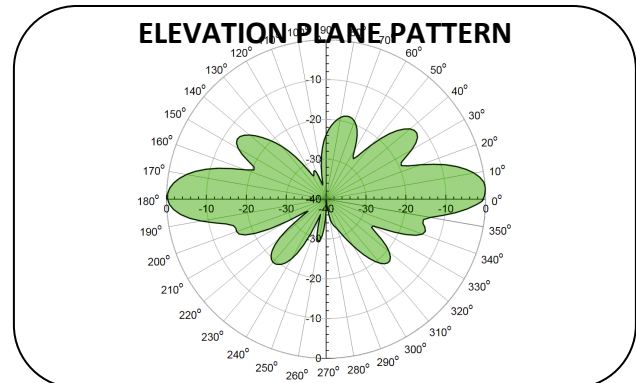
Radome Main: 1.25 in. OD (31.8 mm)

Radome Base: 1.50 in. OD (38.1 mm)

Net Weight: 1.72 lb. (0.78 kg)

Color: Black/Green/Tan/Grey

Mounting: Stainless Steel Base
(1"-14UNF Threaded Nut)



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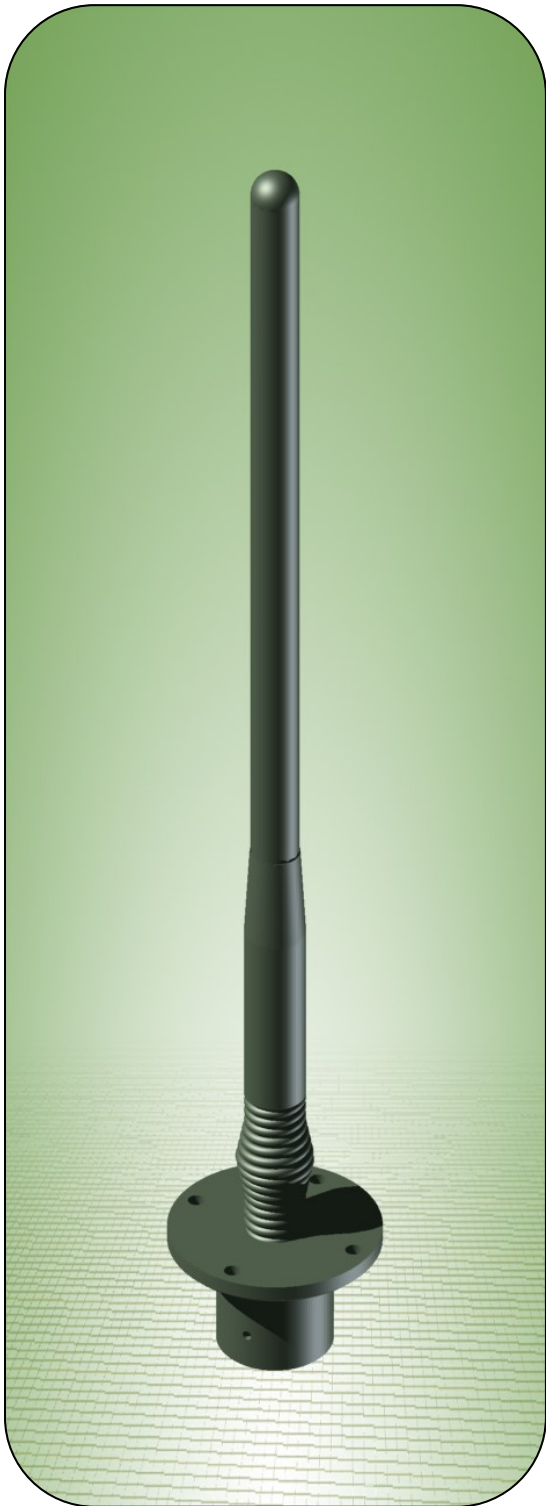
****Specifications are subject to change without prior notice.**



Made in the USA
ISO 9001:2015 Certified
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Omnidirectional Vehicular Antenna



The MVDP2.5-2.7-6 antenna is designed to be used in military, commercial, and other vehicles (including marine craft) where reliability is needed most. This antenna works with all radios within the 2500-2700 MHz band.

The antenna is designed to provide maximum Data, Video & Voice performance in a wide range of applications.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.



Made in the USA
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Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range: 2500-2700 MHz

Gain: 6.0 dBi +/- .5

VSWR: < 2.0:1 Typical

Input Impedance: 50 Ω Nominal

Power: 25 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 24°

DC Short: Yes

Input Connector: Type N Female

MECHANICAL:

Overall Height: 30 in. (0.76 m)

Radome Main: 1.25 in. OD (31.8 mm)

Radome Base: 1.50 in. OD (38.1 mm)

Net Weight: 4 lb. (1.18 kg)

Operational Temps: -40° to +158°F (-40° to +70°C)

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

Compliance: Built to meet: MIL-STD-810F

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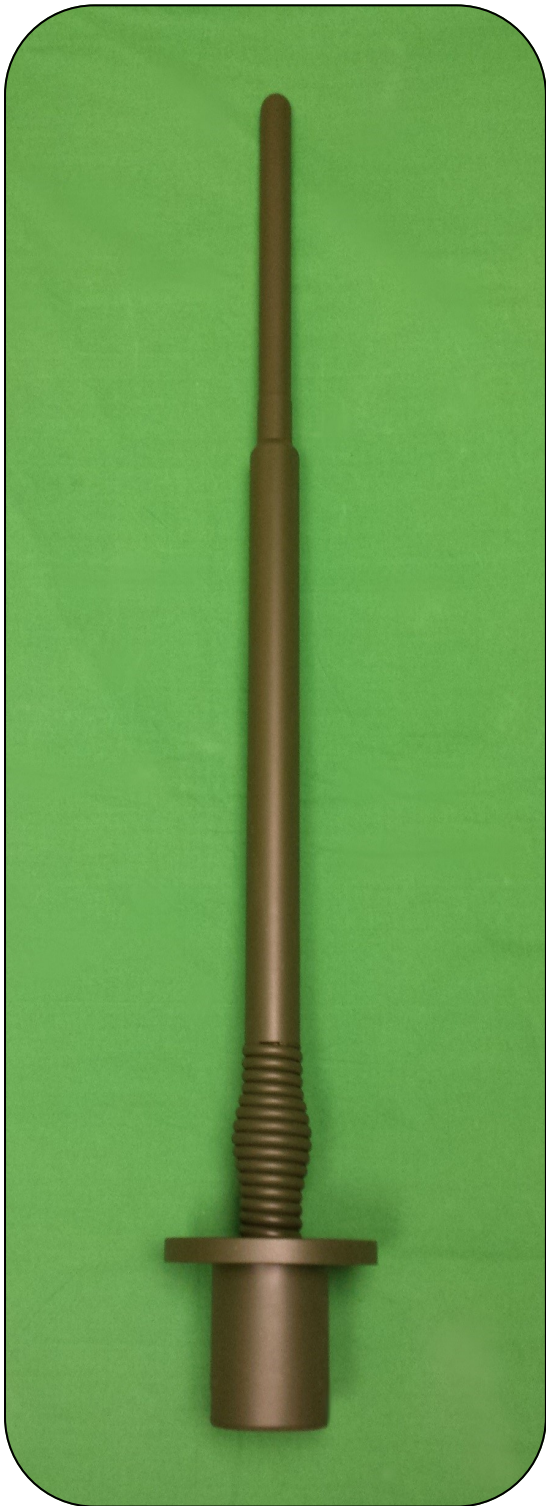
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Dual Polarization Omnidirectional Antenna



The MVDP4.4-4.9-7-D antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 4400-4900 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from 31 ~ 45 dB.

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.



Made in the USA
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(1Y09500)

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Dual Polarization Omnidirectional Antenna Specifications

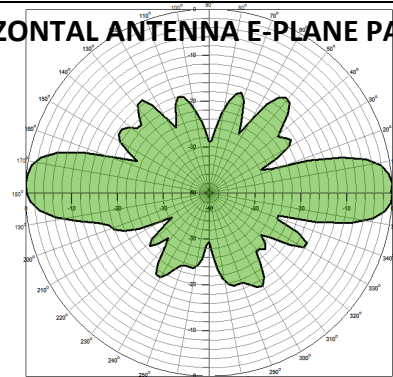
ELECTRICAL:

Frequency Range:	4400-4900 MHz
Gain:	7.0 dBi +/- .5
VSWR:	2.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	27 Watts
Polarization:	Horizontal & Vertical
Port-to-Port Isolation:	31 ~ 45 dB Typical
Radiation Pattern:	Azimuth: 360° Elevation: 17° ~ 18°
Input Connector:	(2) Type N Female

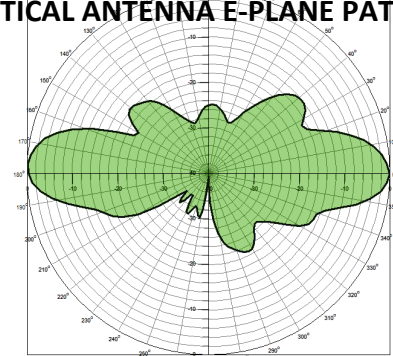
MECHANICAL:

Length:	33.5 in. (0.85 m)
Radome Diameter:	1.5 in. (38.1 mm)
Net Weight:	4 lb. (1.81 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
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

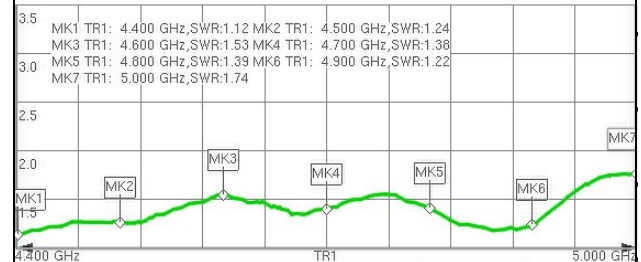
HORIZONTAL ANTENNA E-PLANE PATTERN



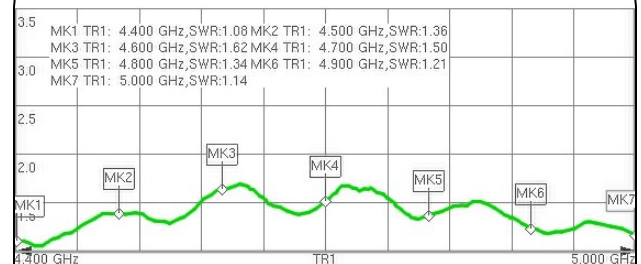
VERTICAL ANTENNA E-PLANE PATTERN



HORIZONTAL ANTENNA VSWR



VERTICAL ANTENNA VSWR



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Dual Input Omnidirectional Antenna



The MVDP4.4-5.0/5.0-6.0-7-D antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 4400-5000 & 5000-6000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from 40 ~ 50 dB.

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.



Dual Input Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 4400-5000 MHz (Input 1)
5000-6000 MHz (Input 2)

Gain: 7.0 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 25 Watts

Polarization: Vertical over Vertical

Port-to-Port Isolation: 40 ~ 50 dB Typical

Radiation Pattern: Azimuth: 360°
Elevation: 20°

DC Short: Yes

Input Connector: (2) Type N Female

MECHANICAL:

Overall Height: 39 in. (0.99 m)

Radome Diameter: 1.0 in. (25.4 mm)

Net Weight: 4 lb. (1.81 kg)

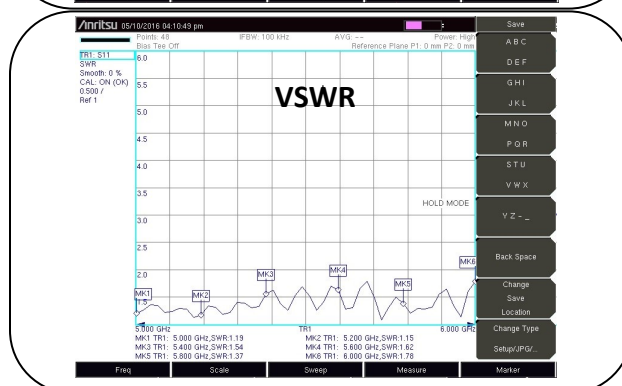
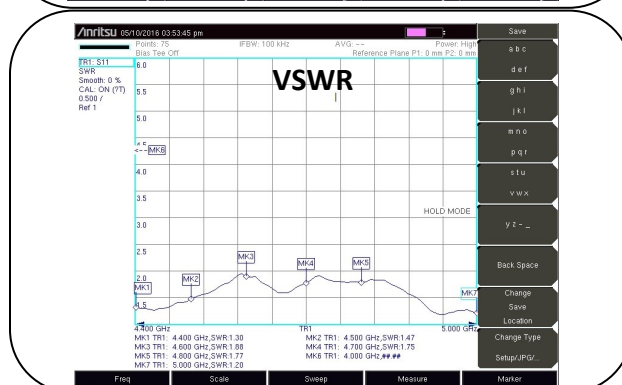
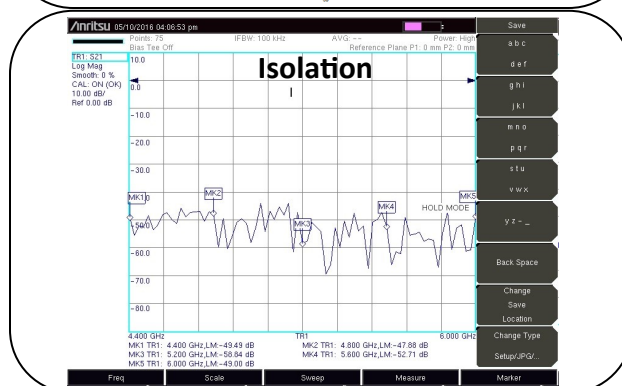
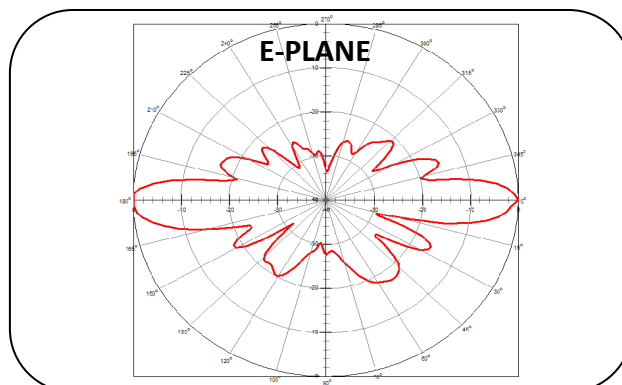
Operational Temps: -40° to +185°F (-40° to +85°C)

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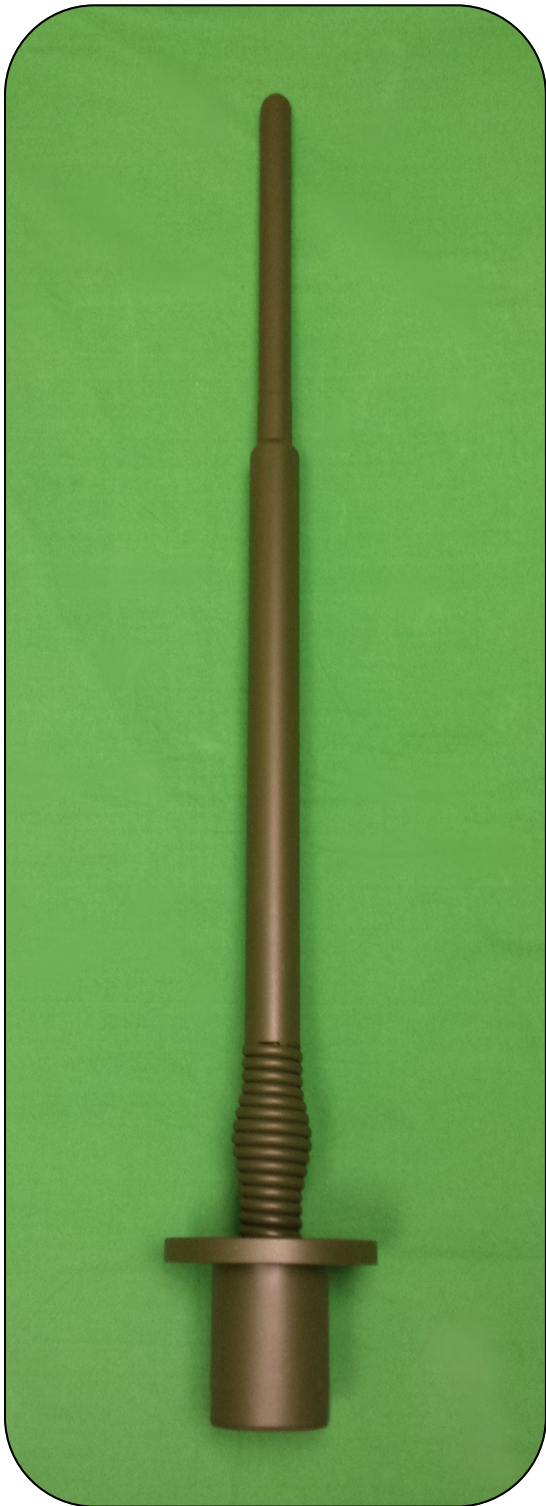
****Specifications are subject to change without prior notice.**



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(1Y23700)

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Dual Polarization Omnidirectional Antenna



The MVDP4.4-5.0-9-D antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 4400-5000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from 34 ~ 45 dB.

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.



Made in the USA
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(1Y14800)

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Dual Polarization Omnidirectional Antenna Specifications

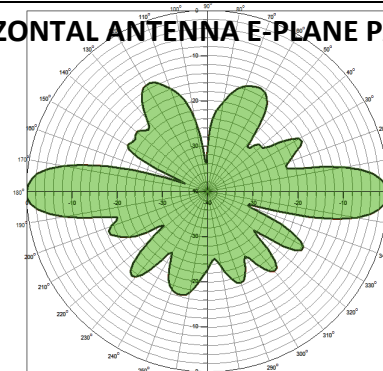
ELECTRICAL:

Frequency Range:	4400-5000 MHz
Gain:	9.0 dBi +/- .5
VSWR:	2.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	25 Watts
Polarization:	Horizontal & Vertical
Port-to-Port Isolation:	34 ~ 45 dB Typical
Radiation Pattern:	Azimuth: 360° Elevation: 13°
DC Short:	Yes
Input Connector:	(2) Type N Female

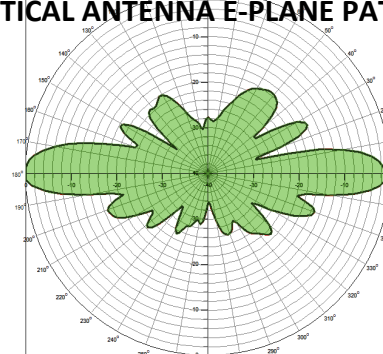
MECHANICAL:

Length:	40.5 in. (1.03 m)
Radome Diameter:	1.5 in. (38.1 mm)
Net Weight:	4 lb. (1.81 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
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

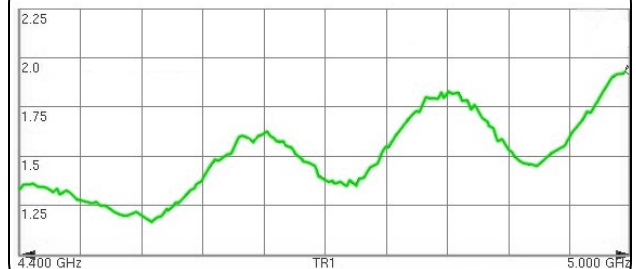
HORIZONTAL ANTENNA E-PLANE PATTERN



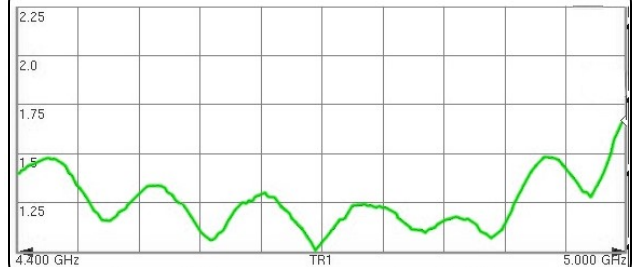
VERTICAL ANTENNA E-PLANE PATTERN



HORIZONTAL ANTENNA VSWR



VERTICAL ANTENNA VSWR



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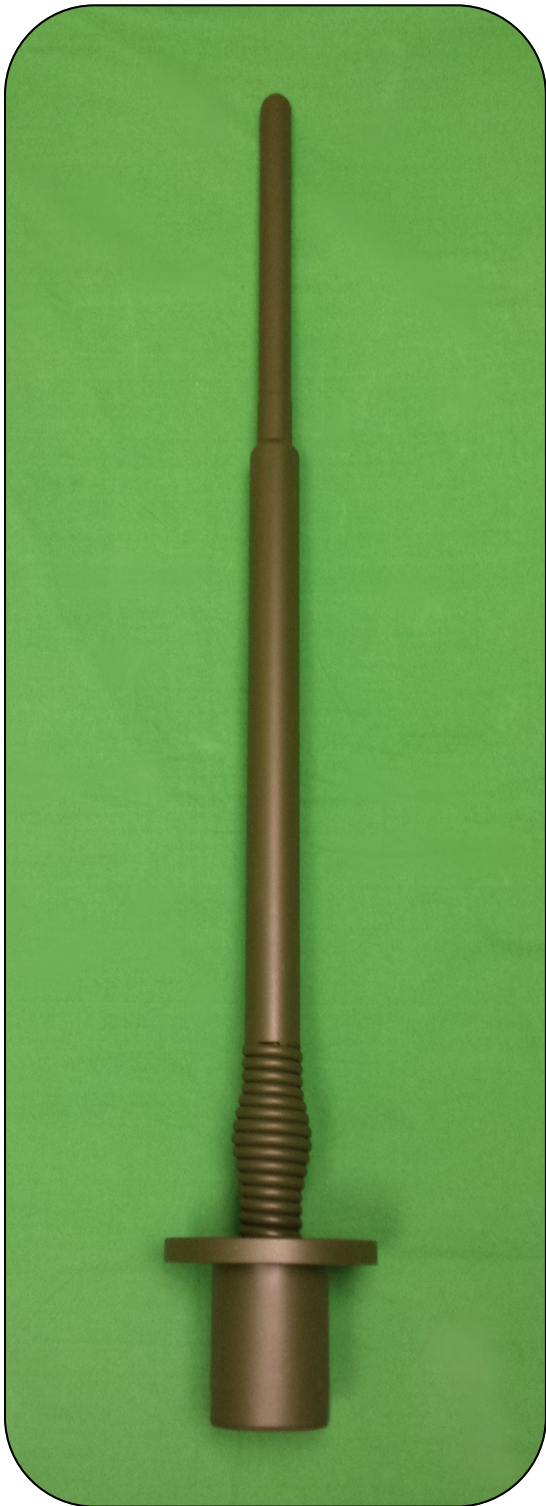
****Specifications are subject to change without prior notice.**



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(1Y14800)

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Dual Polarization Omnidirectional Antenna



The MVDP4.4-5.0-7-D antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 4400-5000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from 31 ~ 45 dB.

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.



Made in the USA
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(1Y18850)

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Dual Polarization Omnidirectional Antenna Specifications

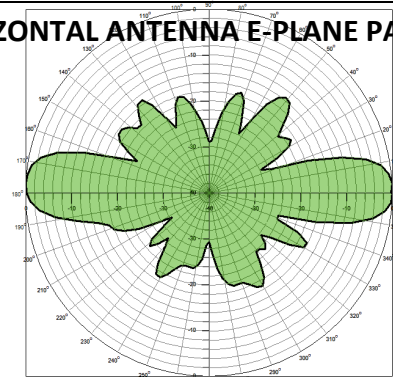
ELECTRICAL:

Frequency Range:	4400-5000 MHz
Gain:	7.0 dBi +/- .5
VSWR:	2.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	27 Watts
Polarization:	Horizontal & Vertical
Port-to-Port Isolation:	31 ~ 45 dB Typical
Radiation Pattern:	Azimuth: 360° Elevation: 17°~ 18°
Input Connector:	(2) Type N Female

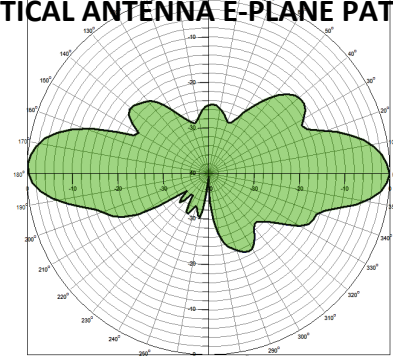
MECHANICAL:

Length:	33.5 in. (0.85 m)
Radome Diameter:	1.5 in. (38.1 mm)
Net Weight:	4 lb. (1.81 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
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

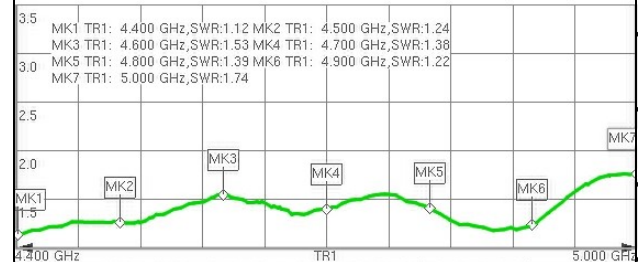
HORIZONTAL ANTENNA E-PLANE PATTERN



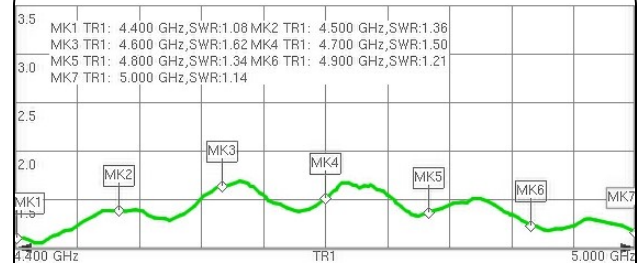
VERTICAL ANTENNA E-PLANE PATTERN



HORIZONTAL ANTENNA VSWR



VERTICAL ANTENNA VSWR



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Dual Input Omnidirectional Antenna



The MVDP4.4-5.0-7-DAB antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 4400-5000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from 40 ~ 50 dB.

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.



Made in the USA
ISO 9001:2015 Certified
(1Y19400)

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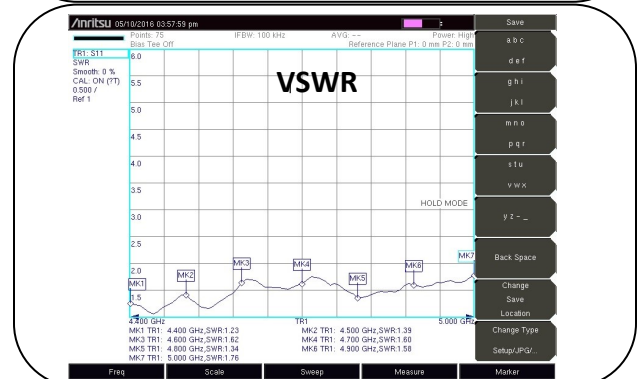
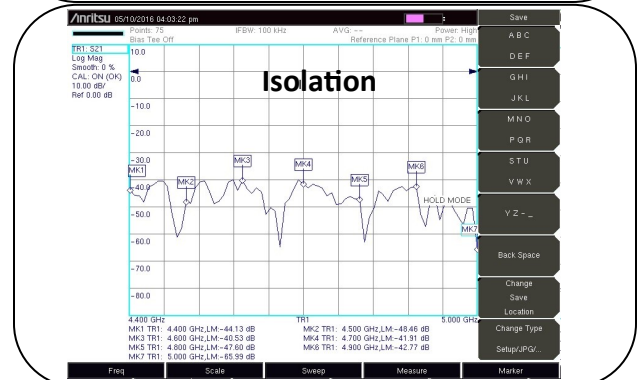
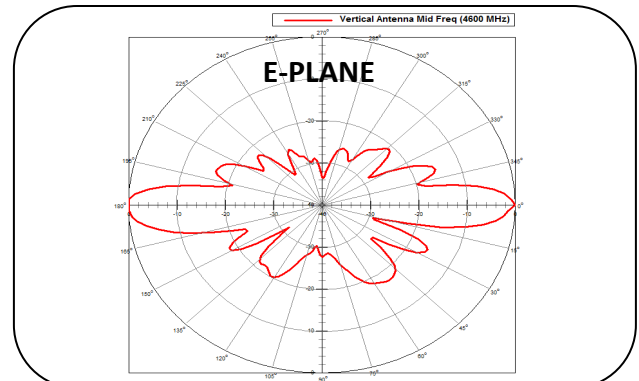
Dual Input Omnidirectional Antenna Specifications

ELECTRICAL:

Frequency Range:	4400-5000 MHz
Gain:	7.0 dBi +/- .5
VSWR:	2.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	25 Watts
Polarization:	Vertical over Vertical
Port-to-Port Isolation:	40 ~ 50 dB Typical
Radiation Pattern:	Azimuth: 360° Elevation: 20°
DC Short:	Yes
Input Connector:	(2) Type N Female

MECHANICAL:

Overall Height:	40 in. (1.02 m)
Radome Diameter:	1.5 in. (38.1 mm)
Net Weight:	4 lb. (1.81 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
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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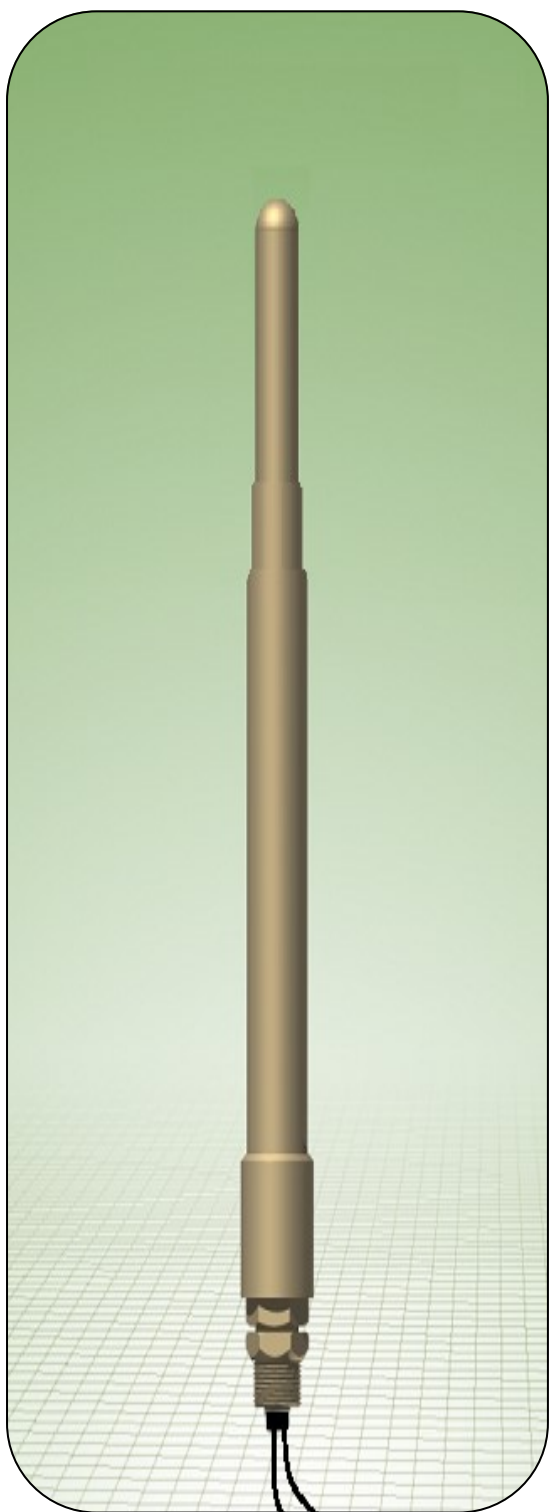
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(1Y19400)

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Dual Polarization Omnidirectional Antenna



The MADP4.4-5.0-6-D antenna is designed to be used in military, commercial, and other applications where reliability is needed most. This antenna works with all radios within the 4400-5000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from 40 ~ 50 dB.

Being “ground independent”, this antenna can be used on all types of structures (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.

- Best overall on the move coverage
- Extreme Dual Bit Stream Ready
- 40~50dB Port-To-Port Isolation
- 6dBi Gain Stability Throughout Band
- > 2:1 VSWR
- True Dual Polarization in One Antenna
- Allows for Space Reduction
- Built in USA



Made in the USA
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Dual Polarization Omnidirectional Antenna Specifications

ELECTRICAL:

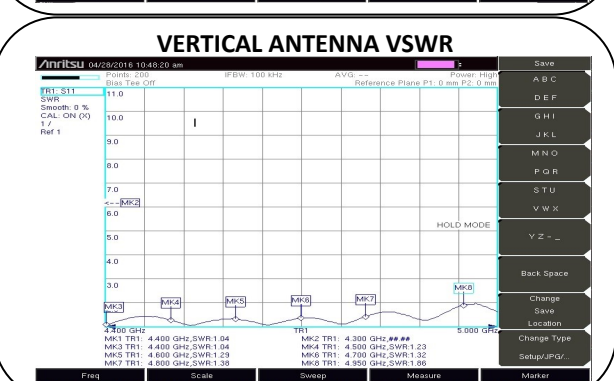
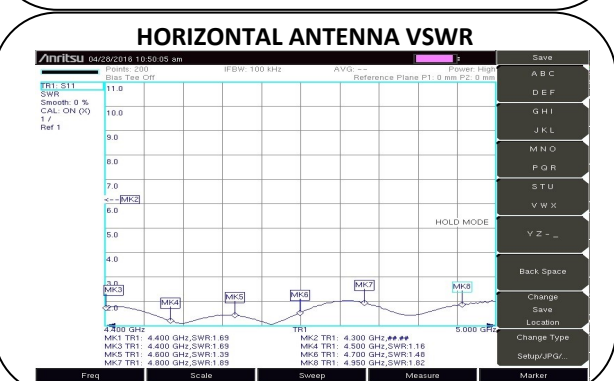
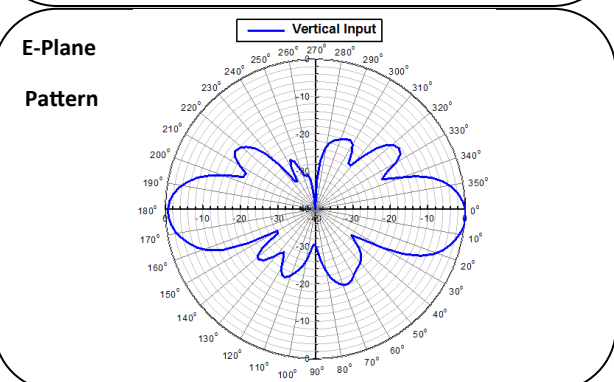
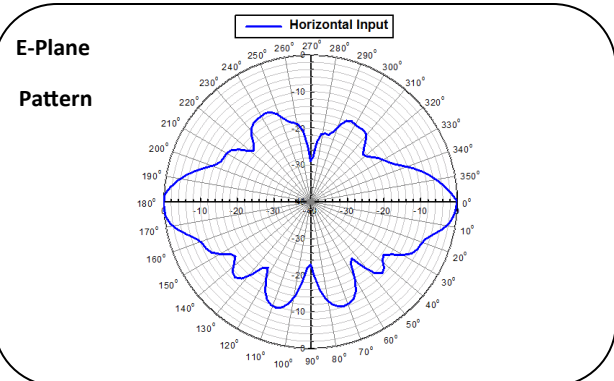
Frequency Range:	4400-5000 MHz
Gain:	6.0 dBi +/- .5
VSWR:	2.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	25 Watts Max
Polarization:	Horizontal & Vertical
Port-to-Port Isolation:	40 ~ 50 dB Typical
Radiation Pattern:	Azimuth: 360° Elevation: 30°
DC Short:	Yes
Input Connector:	(2) Type N Female (pigtail)

MECHANICAL:

Overall Height:	19 in. (482mm)
Radome Diameter:	1.5 in. (38.1 mm)
Net Weight:	1 lb. (.45 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
Color:	Black/Green/Tan/Grey
Mounting:	UM004AB Mount (Sold Separately)

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(1Y28800)

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Dual Input Omnidirectional Antenna



The MADP4.4-5.0-7AC antenna is designed to be used in military, commercial, and other marine applications where reliability is needed most. This antenna works with all radios within the 4400-5000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior 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. The antenna is designed and manufactured to meet MIL-STD-810.



Dual Input Omnidirectional Antenna Specifications

ELECTRICAL:

Frequency Range: 4400-5000 MHz

Gain: 7.0 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 25 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 20°

DC Short: Yes

Input Connector: Type N Female

MECHANICAL:

Overall Height: 40 in. (1.02 m)

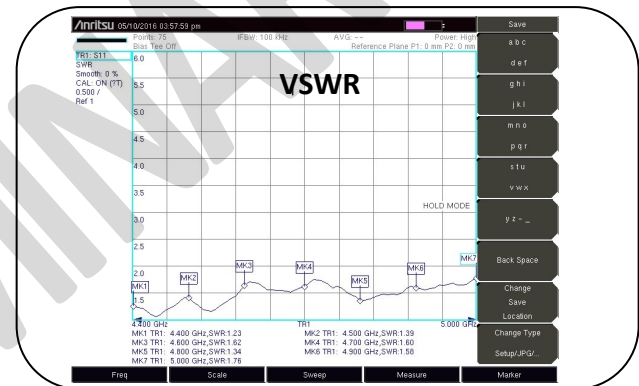
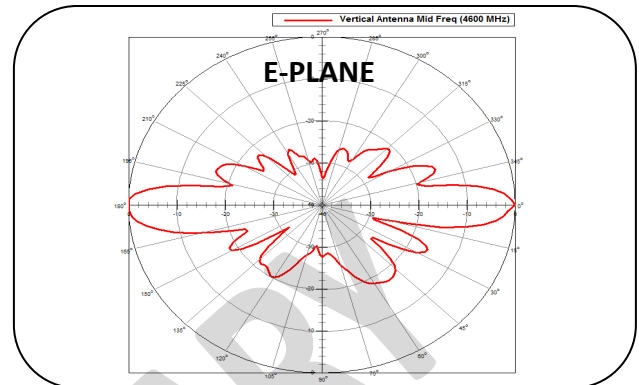
Radome Diameter: 1.5 in. (38.1 mm)

Net Weight: 4 lb. (1.81 kg)

Operational Temps: -40° to +185°F
(-40° to +85°C)

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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(1Y40800)

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Dual Polarization Omnidirectional Antenna



The MVDP4.4-5.875-7-DAB antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 4400-5875 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. This antenna also supports extreme high data rates, equal bit data streams, and features enhanced dual polarization

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 Polycarbonate radome and is constructed from corrosion resistant materials for reliability in the harshest environments.

- **Impact Resistant**
- **Spring Base with NATO Flange**
- **Dual Polarization**
- **Supports Ultra High Bit Data Rates**
- **Low VSWR**
- **Dual Input-Single Antenna**



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(1Y31750)

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Dual Polarization Omnidirectional Antenna Specifications

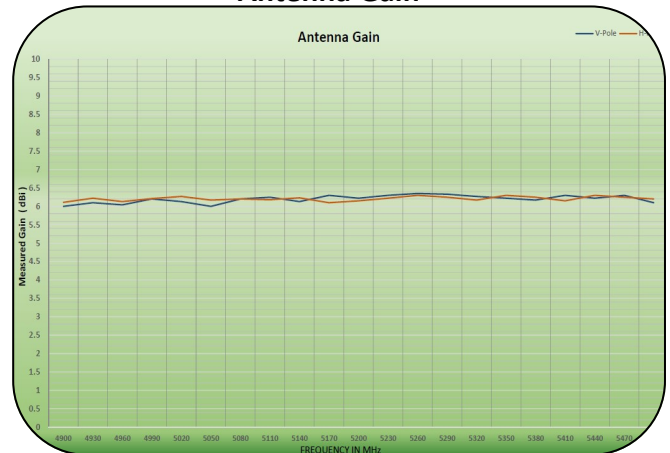
ELECTRICAL:

Frequency Range:	4400-5875 MHz
Gain:	7 dBi +/- .5
VSWR:	2:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	25 Watts
Polarization:	Dual Horizontal & Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 24°
Input Connector:	(2) Type N Female

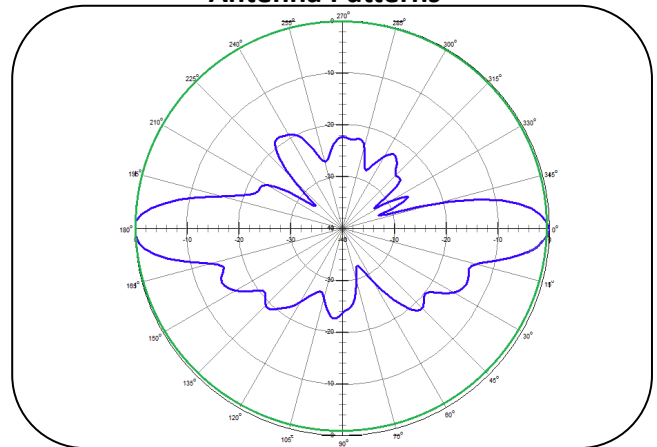
MECHANICAL:

Overall Length:	20 in. (0.51 m)
Radome Diameter:	2.75 in. (70 mm)
Net Weight:	5.7 lb. (2.59 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
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

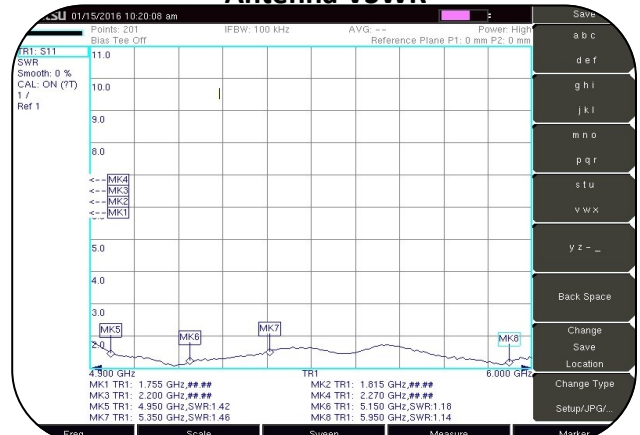
Antenna Gain



Antenna Patterns



Antenna VSWR



NOTE: Graphs and Patterns reflect antennas MVDP4.4-5.0-6 and MVDP4.9-6.0-6. Updated data to follow pending final testing.

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Tactical Omnidirectional Antenna



The MADP4.8-5.2 antenna is designed to be mounted on military, commercial, and other vehicles (including marine craft) where reliability is needed most. This antenna works with all radios within the 4800-5200 MHz band.

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

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

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. The lower portion includes a threaded section with a 1 inch stainless steel nut for mounting.



Tactical Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 4800-5200 MHz

Gain: 6 ~ 8 dBi +/- .5

VSWR: < 1.5:1 Typical
2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 100 Watts

Polarization: Vertical

Radiation Pattern: Azimuth: 360°
Elevation: 20°

Peak Gain Angle Vertical Plane: 0° +/- 5°

DC Short: Yes

Input Connector: Type N Female

MECHANICAL:

Overall Height: 15 in. (0.38 m)

Radome Diameter: 1.25 in. (31.8 mm)

Net Weight: 1 lb. (0.45 kg)

Operational Temps: -40° to +185°F (-40° to +85°C)

Color: Black/Green/Tan/Grey

Environmental-to-Navy Shipboard: Yes

Mounting: Stainless Steel Base
(1"-14UNF Threaded Nut)

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Dual Input Omnidirectional Antenna



The MVDP5.0-6.0-7-DAB antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 5000-6000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from 31 ~ 45 dB.

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.



Dual Input Omnidirectional Antenna

Specifications

ELECTRICAL:

Frequency Range: 5000-6000 MHz

Gain: 7.0 dBi +/- .5

VSWR: 2.0:1 Maximum

Input Impedance: 50 Ω Nominal

Power: 27 Watts

Polarization: Vertical over Vertical

Port-to-Port Isolation: 31 ~ 45 dB Typical

Radiation Pattern: Azimuth: 360°
Elevation: 20°

DC Short: Yes

Input Connector: (2) Type N Female

MECHANICAL:

Length: 33.5 in. (0.85 m)

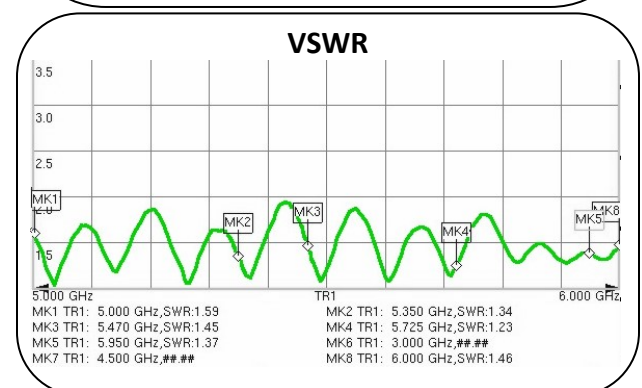
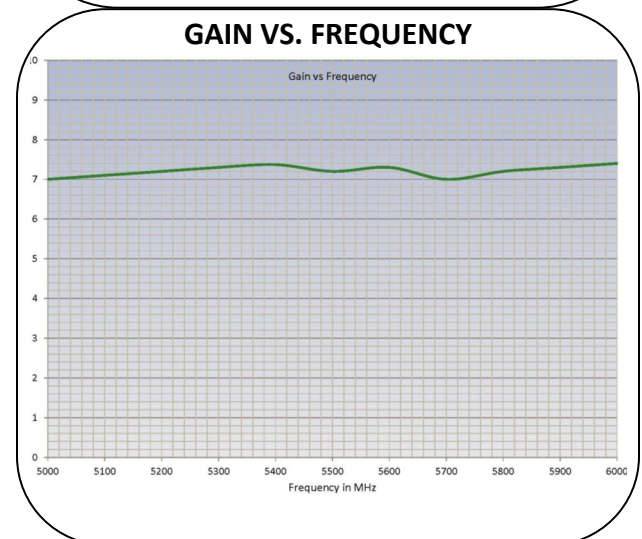
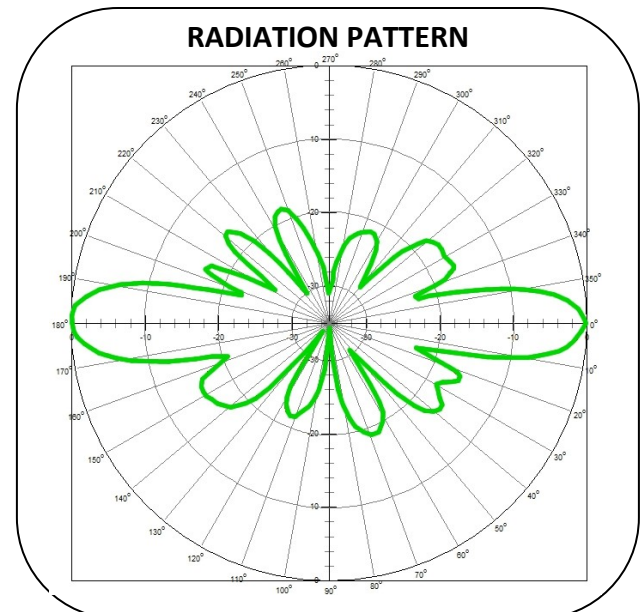
Radome Diameter: 1.0 in. (25.4 mm)

Net Weight: 4.5 lb. (2.04 kg)

Operational Temps: -40° to +185°F
(-40° to +85°C)

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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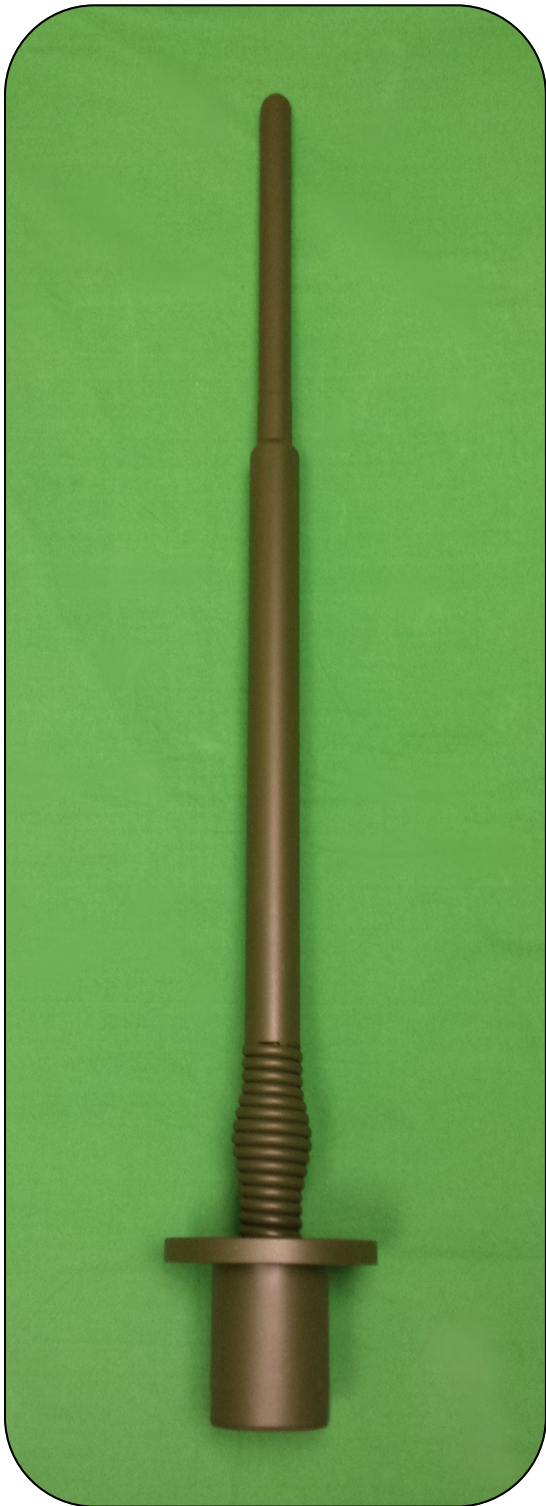
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Dual Polarization Omnidirectional Antenna



The MVDP5.0-6.0-7-D antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 5000-6000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance. Typical Port-to-Port Isolation ranges from 31 ~ 45 dB.

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.



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Dual Polarization Omnidirectional Antenna Specifications

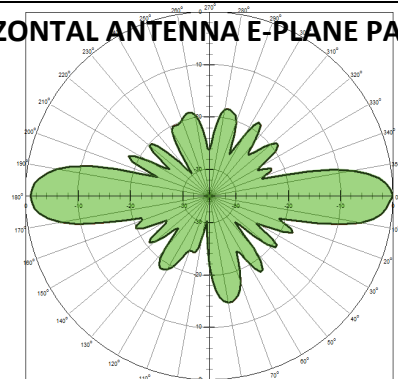
ELECTRICAL:

Frequency Range:	5000-6000 MHz
Gain:	7.0 dBi +/- .5
VSWR:	2.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	27 Watts
Polarization:	Horizontal & Vertical
Port-to-Port Isolation:	31 ~ 45 dB Typical
Radiation Pattern:	Azimuth: 360° Elevation: 27°
DC Short:	Yes
Input Connector:	(2) Type N Female

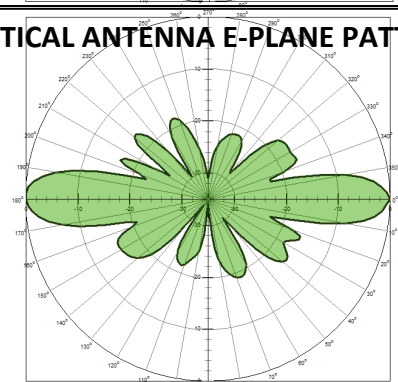
MECHANICAL:

Length:	33.5 in. (0.85 m)
Radome Diameter:	1.5 in. (38.1 mm)
Net Weight:	5.0 lb. (2.27 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
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

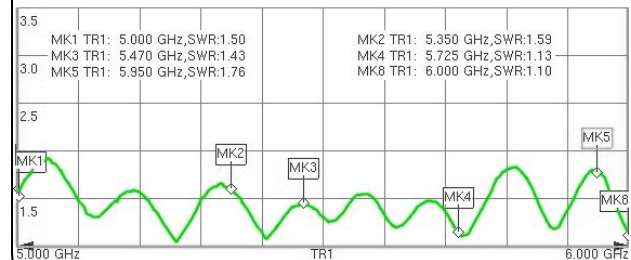
HORIZONTAL ANTENNA E-PLANE PATTERN



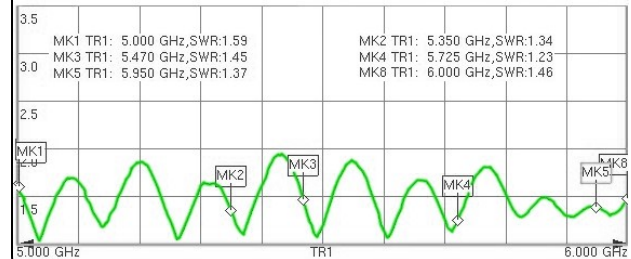
VERTICAL ANTENNA E-PLANE PATTERN



HORIZONTAL ANTENNA VSWR



VERTICAL ANTENNA VSWR



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Omnidirectional Vehicular Antenna



The MVDP6.0-10.0-2 antenna is designed to be used in military, commercial, and other vehicular applications where reliability is needed most. This antenna works with all radios within the 6000-10000 MHz band.

The antenna is provided with state-of-the-art radiating elements essential for maximum reliability and superior performance.

The lower portion contains a pass thru NMO style mount that gives the user an option to Magnet mount or Surface mount the antenna.

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

- **High Impact Resistant Xenoy Radome**
- **Low Profile Design**
- **Good VSWR**
- **65 Watts Power Handling**
- **User Friendly Install & Connection**
- **NMO Pass Thru Mount**
- **Side Coax Exit or Mag Mount Option**



Omnidirectional Vehicular Antenna

Specifications

ELECTRICAL:

Frequency Range:	6000-10000 MHz
Gain:	2.0 dBi +/- .5
VSWR:	< 2.0:1 Maximum
Input Impedance:	50 Ω Nominal
Power:	65 Watts
Polarization:	Vertical
Radiation Pattern:	Azimuth: 360° Elevation: 67°
Input Connector:	Type N Female

MECHANICAL:

Overall Height:	5 in. (127 mm)
Radome Diameter:	2 in. (51 mm)
Net Weight:	1 lb. (0.45 kg)
Operational Temps:	-40° to +185°F (-40° to +85°C)
Color:	Black/Green/Tan/Grey
Mounting:	NMO Pass Thru

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