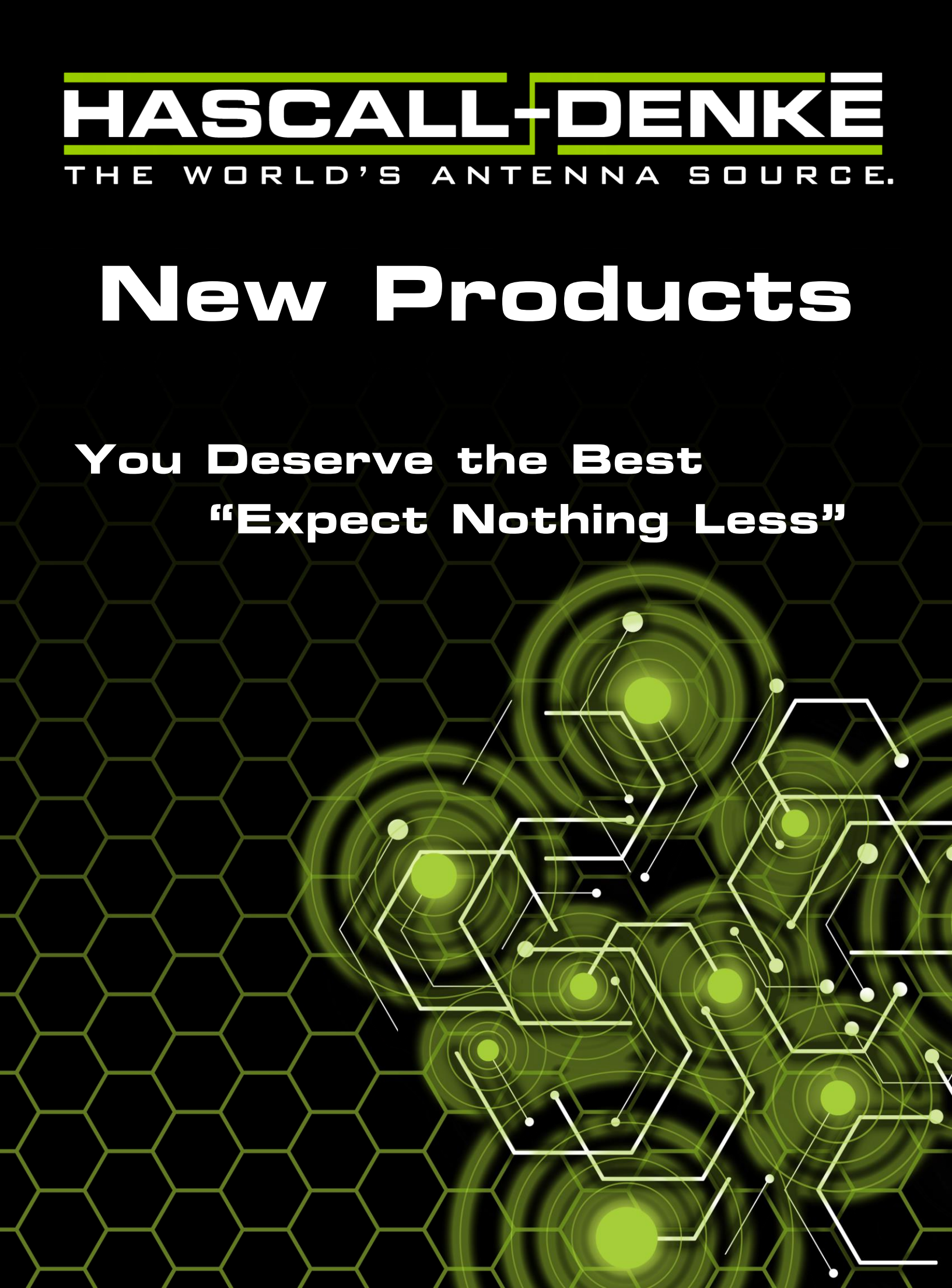
HASCALL-DENKĒ

THE WORLD'S ANTENNA SOURCE.

New Products

You Deserve the Best
"Expect Nothing Less"



Base Station

HASCALL-DENKE

FXSP1.35-2.7-14-D

1350-2700MHz

Band 3 Vertical and Horizontal Polarized Panel Antenna

The FXSP1.35-2.7-14-D features high gain, true dual polarization and wideband capabilities for superior performance and maximum reliability.

The antenna is designed to support Band 3 frequencies with high volume data rates, equal bit data streams and low BER. The antenna has two inputs, and housed in a UV stable polycarbonate radome and constructed with corrosion resistant materials for reliability in the most extreme environments.

Features

- Point to Point (PTP)
- Dual Polarization
- Higher Spectral Efficiency
- Reduced Bit Error Rate (BER)

Electrical Specifications

Frequency	1350-2700MHz
Polarization	Vertical and Horizontal
Impedance	50Ω
VSWR	2:1 Typical, 2.5:1 max
Gain	14.5-15.5dBi
Radiation Pattern @ Mid Band	Azimuth 30° Elevation 30°
Isolation	-36 to –40dB Avg.
Power	30 Watts max
Connector	(2) Type N Female

Mechanical Specifications

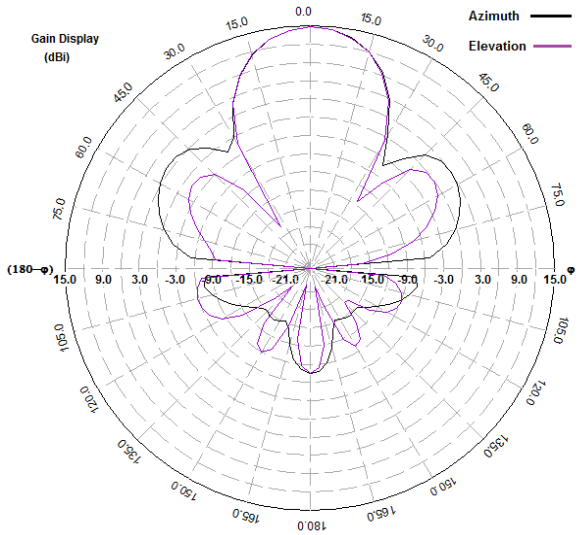
Design	Dipole
Height	12.9in W x 24.2”H
Radome	Polycarbonate
Mechanical Tilt	+15° to –25°
Weight	9.5lbs
Mount	Mast, Wall, or Special
Color	Black/Green/Tan/Grey/White

FXSP1.35-2.7-14-D

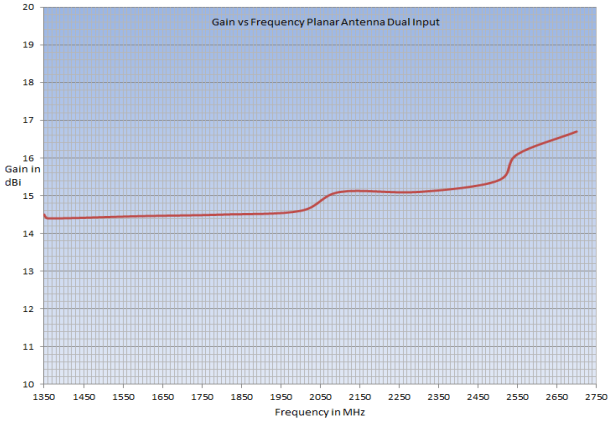
1350-2700MHz

Band 3 Vertical and Horizontal Polarized Panel Antenna

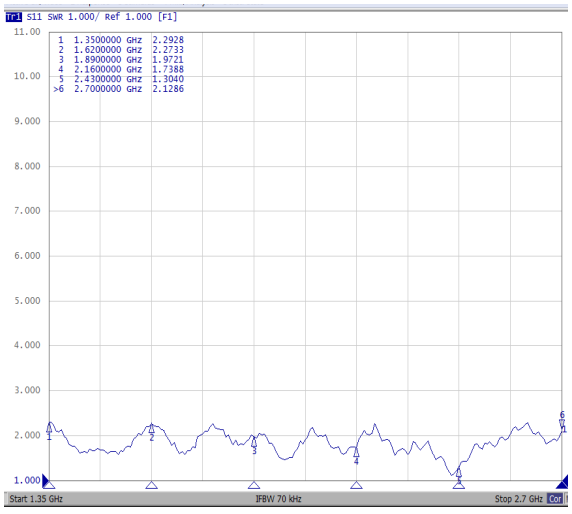
Pattern



Gain



VSWR



FXSP4.4-5.875-14-D
4400-5875 MHz
Dual Polarized 90° C-Band Sector

The FXSP4.4-5.875-14-D features high gain, true dual polarization and broadband spectral capabilities for superior performance and maximum reliability.

This antenna operates in NATO Band 4 (C-band) and is designed for high volume data rates, equal bit data streams and low BER. The antenna has two inputs, and housed in a UV stable polycarbonate radome and constructed with corrosion resistant materials for reliability in the most extreme environments.

Features

- Designed for High Capacity Line of Sight (HCLOS)
- Horizontal and Vertical Polarization
- Reduced Latency
- Reduced Bit Error Rate (BER)
- NATO Band 4 (C-band)

Electrical Specifications

Frequency	4400-5875 MHz
Polarization	Vertical and Horizontal
Impedance	50 Ω Nominal
VSWR	< 2.0:1 Typical
Gain	See Table
Radiation Pattern	Azimuth 90° Elevation 16°
Isolation	32-40 dB
Power	30 Watts max
Connector	(2) Type N Female

Mechanical Specifications

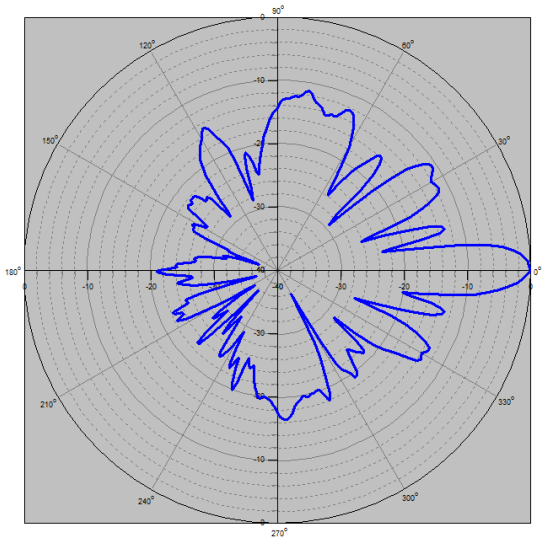
Design	Sector Panel
Height	31.5”(h) X 5.5”(w) X 2.5”(d)
Radome	Polycarbonate
Mechanical Tilt	+15°/ -25°
Weight	3.7 lbs (.45kg)
Mount	HDM013 Sector Mount Sold Separately (1.5” - 2” Pipe)
Color	Black/Green/Tan/Grey/White

FXSP4.4-5.875-14-D

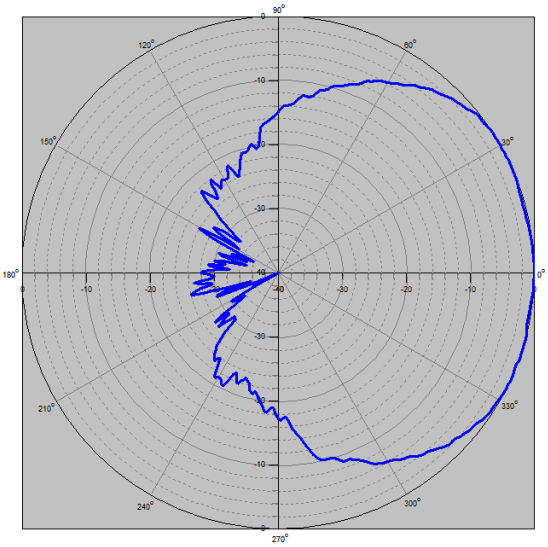
4400-5875 MHz

Dual Polarized 90° C-Band Sector

Elevation Pattern



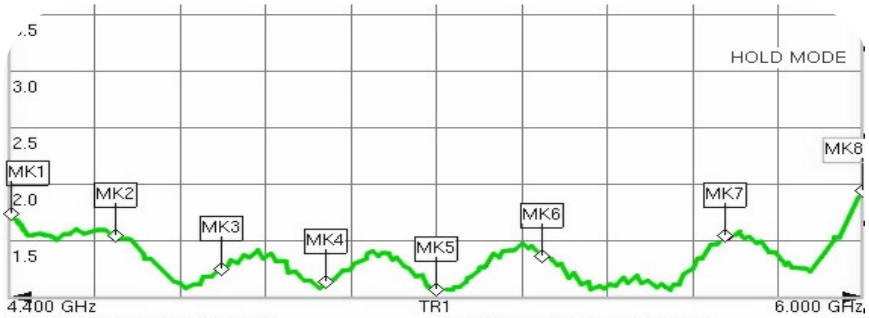
Azimuth Pattern



Gain Table

4.4—5.5 GHz	12 dBi ± .5
4.5—4.6 GHz	11 dBi ± 1
4.7—4.8 GHz	10 dBi ± 1
4.9—5.0 GHz	12.5 dBi ± .5
5.0—5.5 GHz	14 dBi ± .5
5.5—6.0 GHz	13.5 dBi ± .5

VSWR



MK1 TR1: 4.400 GHz,SWR:1.72
MK2 TR1: 4.600 GHz,SWR:1.52
MK3 TR1: 4.800 GHz,SWR:1.23
MK4 TR1: 5.000 GHz,SWR:1.12
MK5 TR1: 5.200 GHz,SWR:1.05
MK6 TR1: 5.400 GHz,SWR:1.35
MK7 TR1: 5.750 GHz,SWR:1.53
MK8 TR1: 6.000 GHz,SWR:1.92

FXDP117-138
117-138MHz
Fixed VHF-AM Antenna

The FXDP117-138 antenna was designed for today's latest VHF-AM communications platforms for military, commercial, and law enforcement applications.

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

Being ground independent, this antenna can be mounted on various platforms (metal or non-metal) with no degradation of performance.

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	117-138MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	2:1 Typical
Gain	≥ 2dBi
Pattern	Omni Directional Azimuth 360° Elevation 72°
Power	200 Watts CW
Connector	Type N Female

Mechanical Specifications

Design	Dipole
Height	50.5in. (1.3m) w/o extension
Diameter	2¼in. (57.15mm)
Radome	Fiberglass
Weight	5.5lbs. (2.5kg.)
Wind load	150MPH Max (241kph)
Mounting	1" 14 Thread Extension
Temp	-40 to 185° F (-40 to 85°C)
Color	White/Black/Green/Tan/Grey

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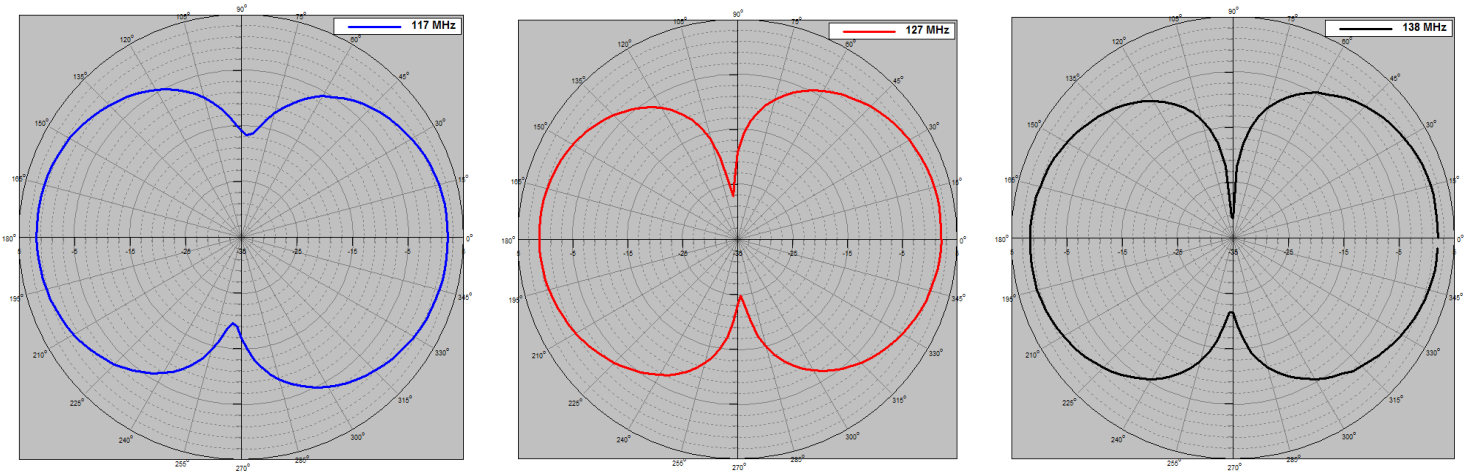
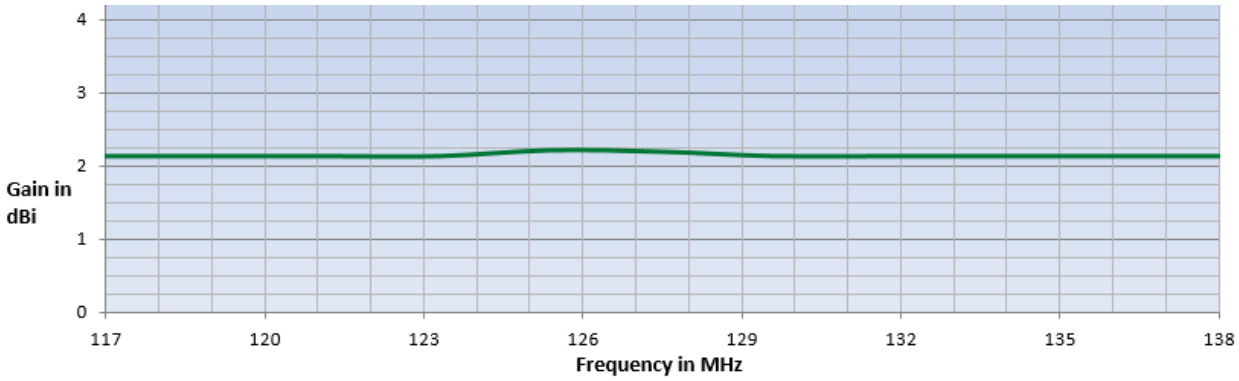
FXDP117-138
117-138MHz
Fixed VHF-AM Antenna

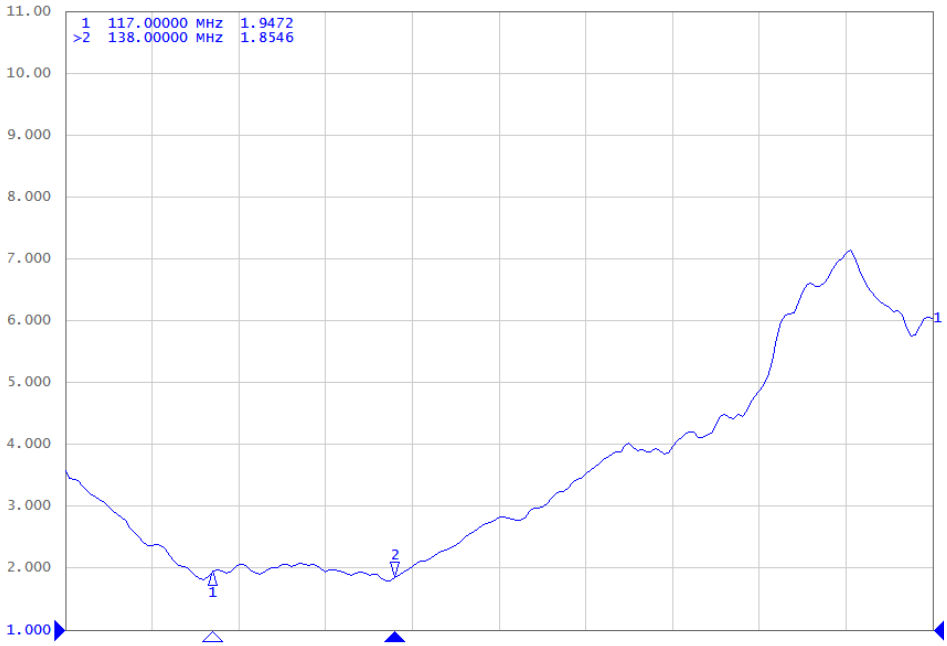
Patterns



Gain



VSWR



Made in the USA
ISO 9001 Certified
Form F042, Rev: A

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1-800-473-2139

1Y47100

FXDP150/450/816
136-174/380-520/762-960MHz
Tri-Band Antenna

The FXDP150/450/818 is a full spectrum multiband VHF, UHF-H, 700/800/900MHz antenna designed for today's latest Land Mobile Radios (LMR) for maritime, military, commercial, public safety and law enforcement applications

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

Being ground independent, this antenna can be mounted on various platforms (metal or non-metal) with no degradation of performance.

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	136-174MHz 380-520MHz 762-960MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	2.5:1 operational <3.0:1 Max
Gain	Unity to +2dBi
Pattern	Omni Directional Azimuth 360° Elevation 72°
Power	100 Watts
Connector	12" pigtail w/Type N Female

Mechanical Specifications

Design	Dipole
Height	41.25in. (1.05m)
Diameter	2¼" (57.15mm)
Radome	Fiberglass
Weight	5.5lbs. (2.5kg.)
Wind load	150MPH Max (241kph)
Mounting	1" 14 Thread—Extension sold separate
Color	White/Black/Green/Tan/Grey

**Specifications are subject to change without prior notice.

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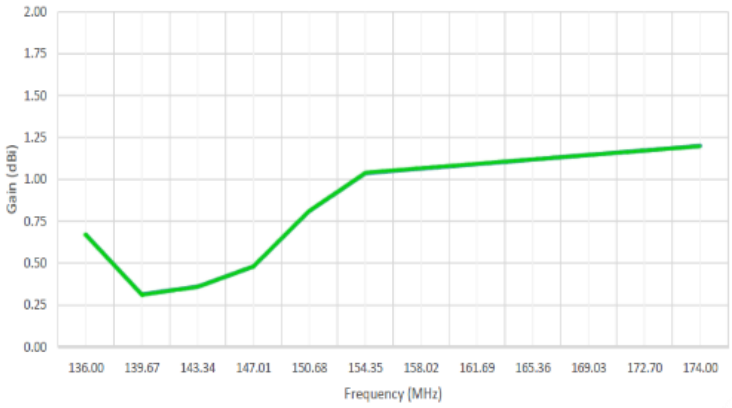
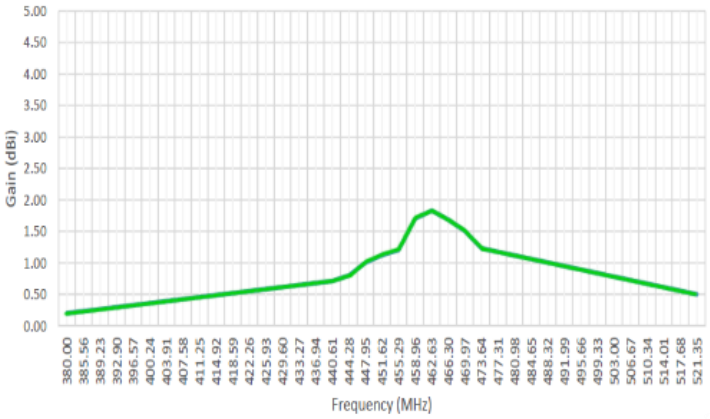
FXDP150/450/816
136-174/380-520/762-960MHz
Tri-Band Antenna

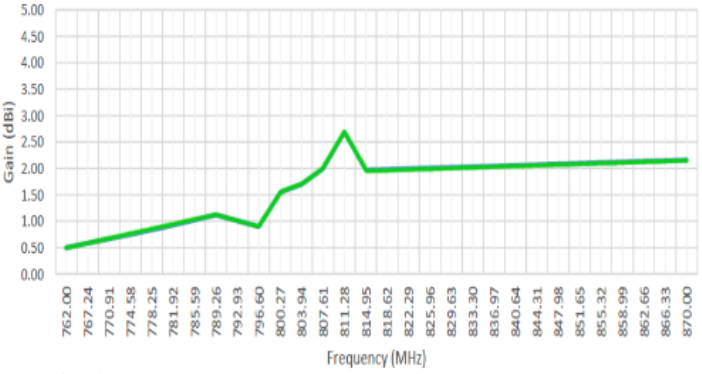
Gain Pattern
136-174MHz



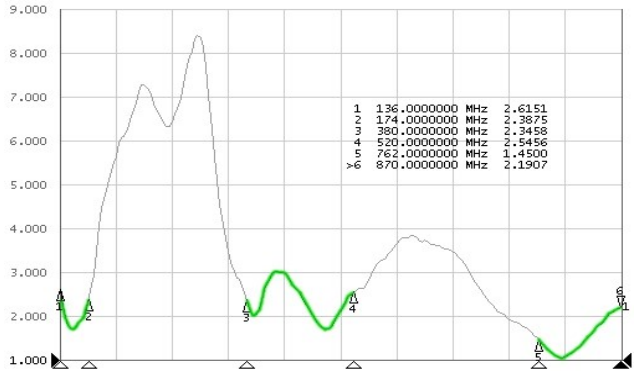
Gain Pattern
380-520MHz



Gain Pattern
762-870MHz



VSWR



FXDP150/450/816AB
136-174/380-520/762-960MHz
Tri-Band Antenna

The FXDP150/450/818AB is a full spectrum multiband VHF, UHF-H, 700/800/900MHz antenna designed for today's latest Land Mobile Radios (LMR) for maritime, military, commercial, public safety and law enforcement applications

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

Being ground independent, this antenna can be mounted on various platforms (metal or non-metal) with no degradation of performance.

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	136-174MHz 380-520MHz 762-960MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	2.5:1 operational <3.0:1 Max
Gain	Unity to +2dBi
Pattern	Omni Directional Azimuth 360° Elevation 72°
Power	100 Watts
Connector	12" pigtail w/Type N Female

Mechanical Specifications

Design	Dipole
Height	41.25in. (1.05m)
Diameter	2¼" (57.15mm)
Radome	Fiberglass
Weight	5.5lbs. (2.5kg.)
Wind load	150MPH Max (241kph)
Mounting	1" 14 Thread—Extension sold separate
Color	White/Black/Green/Tan/Grey

**Specifications are subject to change without prior notice.

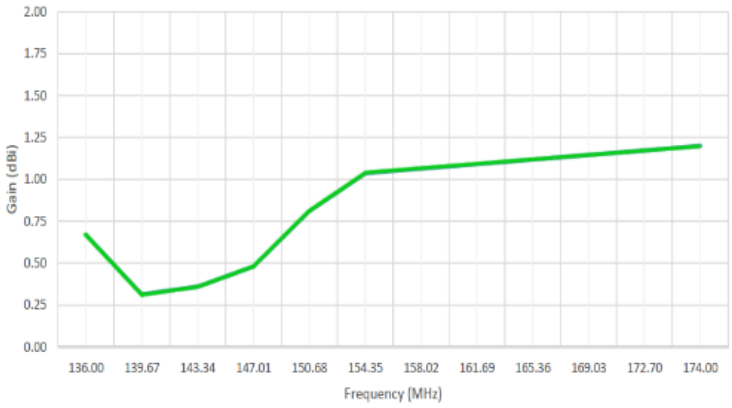
FXDP150/450/816AB

136-174/380-520/762-960MHz

Tri-Band Antenna

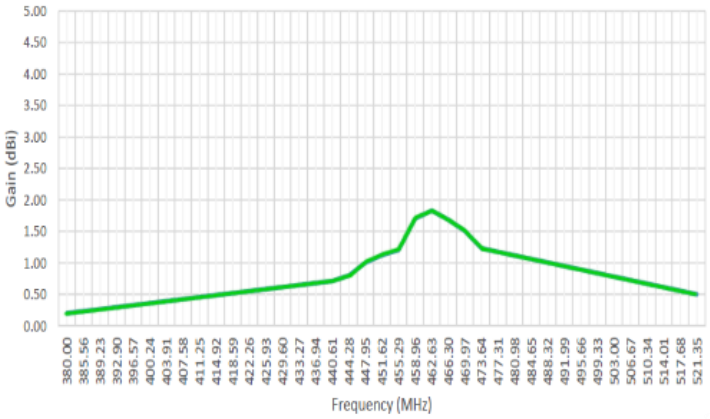
Gain Pattern

136-174MHz



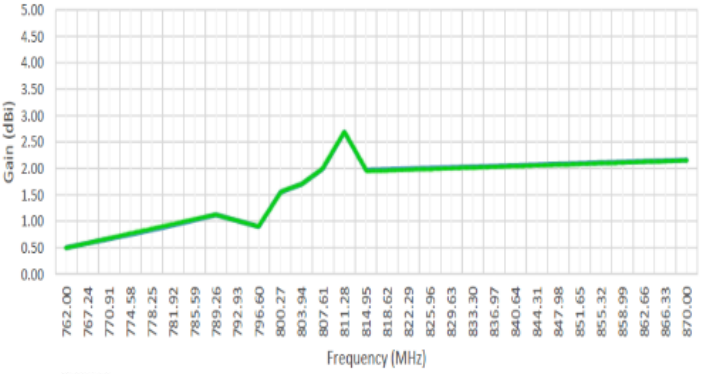
Gain Pattern

380-520MHz

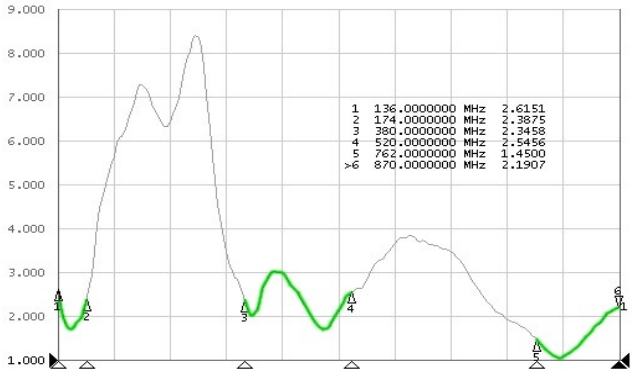


Gain Pattern

762-870MHz



VSWR



TDMP225-400
225-400 MHz
UHF Antenna

The TDMP225-400 antenna was designed for mast mounting or suspension mounted for tactical deployment without a mast. The antenna features foldable ground radials for easy storage.

Features

- Collapsible System
- Setup/Tear Down < 30 Seconds
- Integrated Ground Plane
- No Tools Required

Electrical Specifications

Frequency	225-400 MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	< 2:1
Gain	2.5 dBi Typical
Radiation Pattern	Azimuth 360° Elevation 70°
Power	25 Watts
Connector	TNC Male Rotating

Mechanical Specifications

Design	Monopole
Height	26 inches
Radome	Fiberglass
Weight	4.5 lbs
Mount	Mast
Color	Black or Olive Drab

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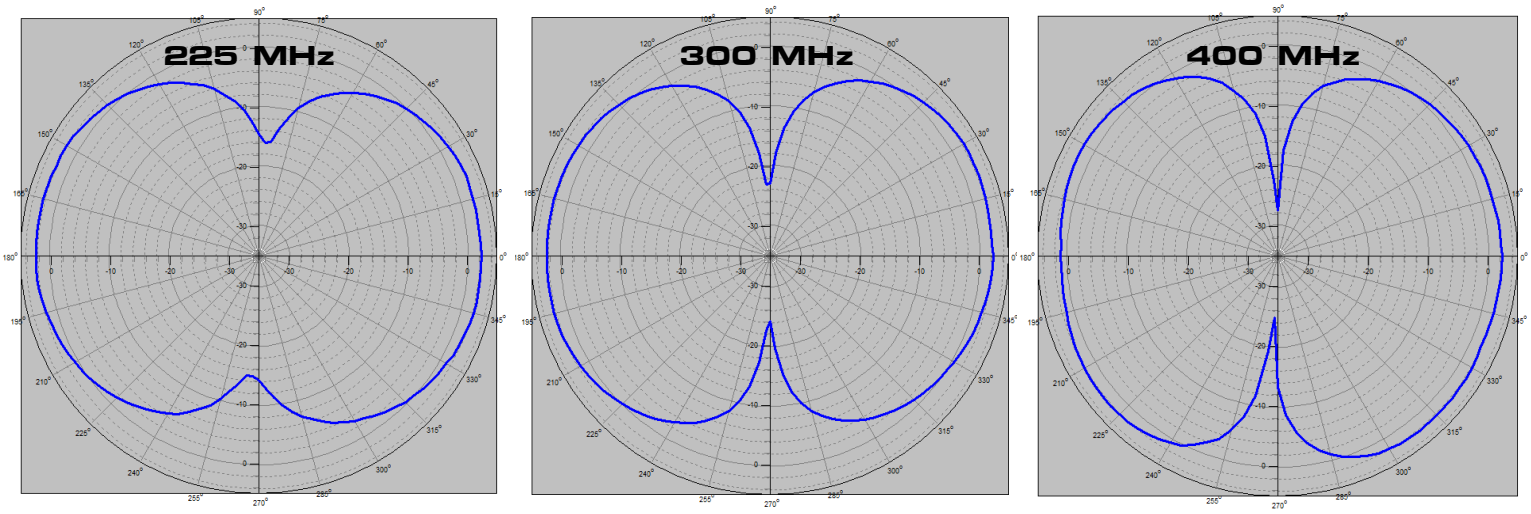
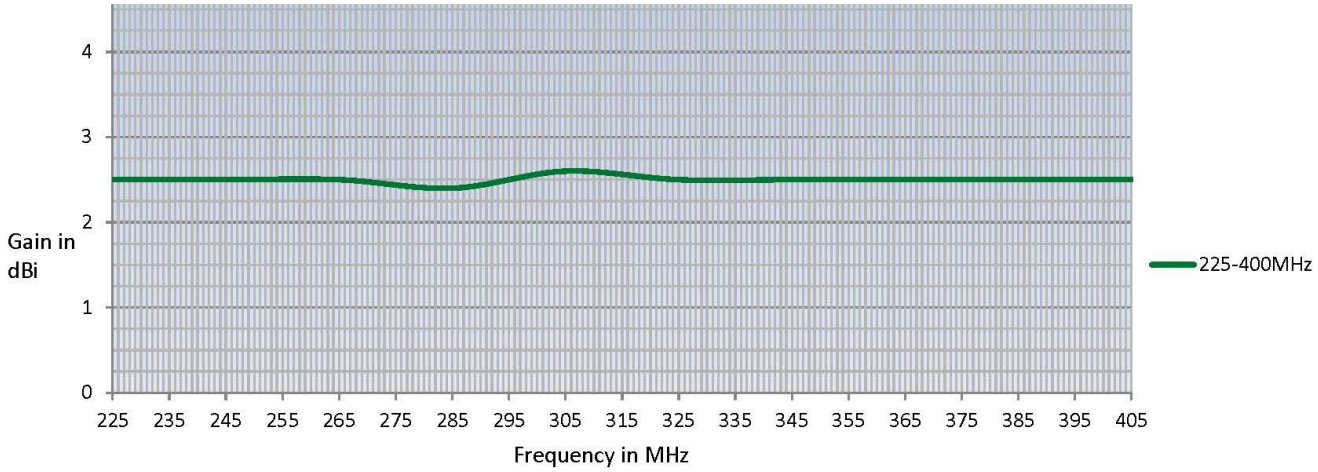
TDMP225-400
225-400 MHz
UHF Antenna

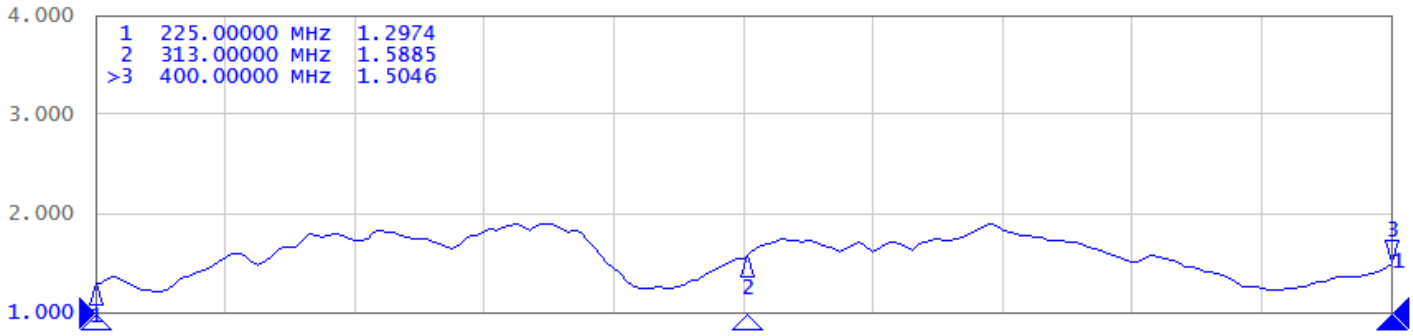
Pattern



Gain



VSWR



FXDP1350-2700-D

1350-2700-D MHz

Dual Polarization Omnidirectional Antenna

The FXDP1350-2700-D is designed to work with all radios operating from 1350-2700 MHz. This Band 3/3+ antenna is designed to maximize performance for HCLOS (High Capacity Line of Sight) and TRILOS (Terrestrial Transmission Line of Sight) Radios.

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

Features

- Ideal for HCLOS & TRILOS radios
- Dual Polarization
- Ground Plane Independent

Electrical Specifications

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

Mechanical Specifications

Design	Dipole
Height	24 in (.61 m)
Radome	2.75 in Dia (70 mm)
Weight	3.5 lb. (1.59 kg)
Mount	Pipe Mount Using UM007, UM007T, or UM015
Color	Black/Green/Tan/Grey

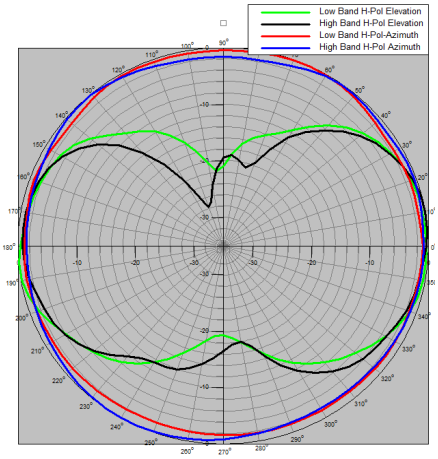
FXDP1350-2700-D

1350-2700-D MHz

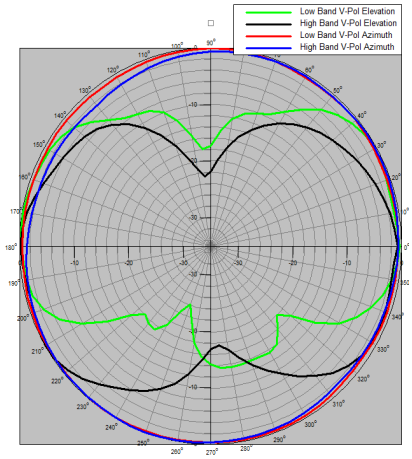
Dual Polarization Omnidirectional Antenna

Pattern

HORIZONTAL ANTENNA PATTERN



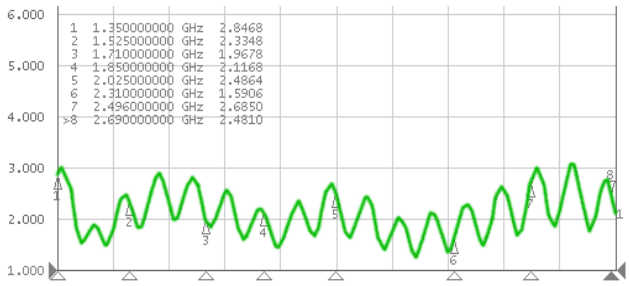
VERTICAL ANTENNA PATTERN



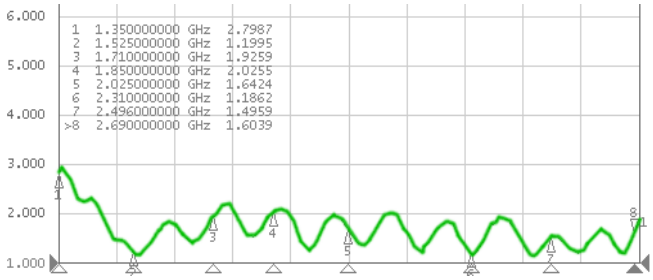
Gain

VSWR

HORIZONTAL ANTENNA VSWR



VERTICAL ANTENNA VSWR



MVDP4.4-6.0-6-D
4400-6000 MHz
Dual Polarization Omnidirectional Antenna

The FXDP4.4-6.0-6-D is designed to work with all radios operating from 4.4-6.0 GHz. This Band 4 antenna is designed to maximize performance for HCLOS (High Capacity Line of Sight) and TRILOS (Terrestrial Transmission Line of Sight) Radios.

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

Features

- Ideal for HCLOS & TRILOS radios
- Dual Polarization
- Ground Plane Independent

Electrical Specifications

Frequency	4400-6000 MHz
Polarization	Dual (Horizontal & Vertical)
Impedance	50 Ω Nominal
VSWR	2:1 Maximum
Gain	> 6 dBi
Radiation Pattern @ Mid Band	Azimuth 360° Elevation 24°
Power	25 Watts
Connector	(2) Type N Female

Mechanical Specifications

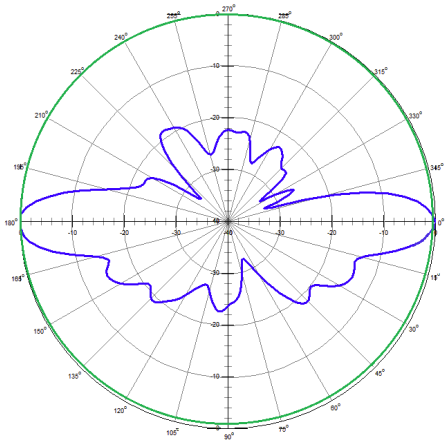
Design	Dipole
Height	17.5 in. (0.45 m)
Radome	2.75 in. Dia (70 mm)
Weight	3.1 lb. (1.41 kg)
Mount	Pipe Mount using UM007, UM007T, or UM015
Color	Black/Green/Tan/Grey

MVDP4.4-6.0-6-D

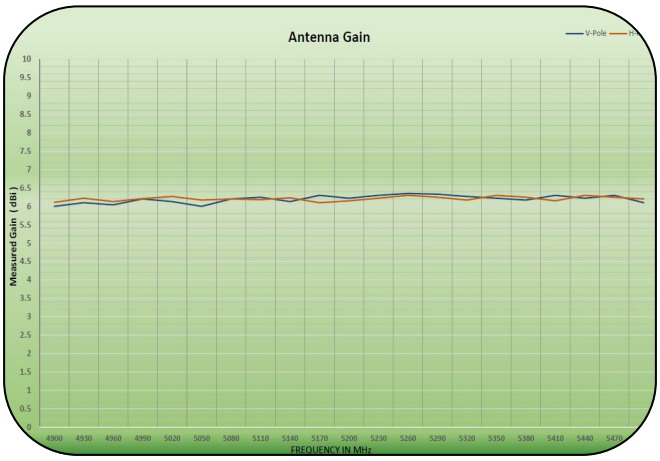
4400-6000 MHz

Dual Polarization Omnidirectional Antenna

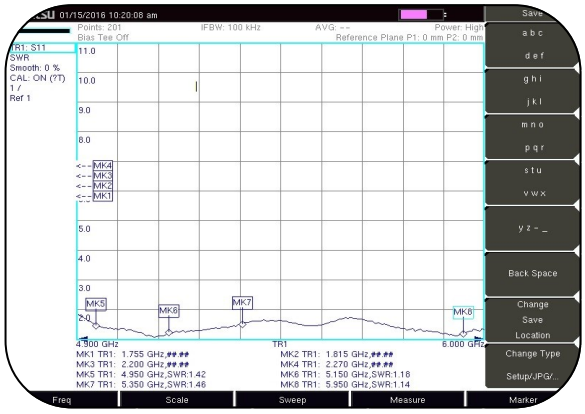
Pattern



Gain



VSWR



Made in the USA

ISO 9001 Certified

Form F042, Rev: A

www.hascall-denke.com

12285 U.S. Highway 41 N., Palmetto, FL 34221

1-800-473-2139

1Y47650

Manpack

HASCALL-DENKE

HD-BAK-1
HD-BAK-1AB
Banded Antenna Kit

The Hascall-Denke Banded Antenna Kit (HD-BAK) was designed to give radio operators more flexibility in congested and contested Radio Frequency (RF) environments. The antennas cover L/UHF - U/UHF L and S bands.

The antennas in the kit are optimized specifically for the TSM-X™ waveform maximizing reliable throughput and extended range. The HD-BAK supports the TW-950/900, AN/PRC-163, AN/PRC-148C IMBITR and other Mobile Ad-Hoc Networking (MANET) radios.

Features

- Use on multiple radio platforms
- Operator flexibility
- Optimized performance
- Extended range

**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.

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1-800-473-2139

HD-BAK-1
HD-BAK-1AB
Banded Antenna Kit

Kit Consists of:

Part #	Model Number	Frequency	VSWR	Gain	Design
1Y43300	MPDP1.25-1.45-4	1250-1450MHz	<2:1	4dBi	Dipole
1Y43350	MPDP 1.75-1.85-4	1750-1850MHz	<2:1	4dBi	Dipole
1Y43400	MPDP2.2-2.35-4	2200-2350MHz	<2:1	4dBi	Dipole
1Y38700	MPDP675X4	675-2600MHz	2.5: 1Max	0-2dBi	Dipole
1Y38350	MPMP225X2AD	225-450MHz	3.0:1 Max	1.5 - 2dBi	Monopole

Specifications when stowed

Length	~ 17.5"
Width	~ 2.5"
Weight	1.8Lb

Bag Color	Part Number	Model Number
Black	1Y45350	HD BAK-1
Coyote Brown	1Y45350A	HD BAK-1AB

** Bag—Berry Compliant

** Antennas—Designed and Manufactured in the USA

HD-BAK-2
HD-BAK-2AB
Banded Antenna Kit

The Hascall-Denke Banded Antenna Kit (HD-BAK) was designed to give radio operators more flexibility in congested and contested Radio Frequency (RF) environments. The antennas cover U/UHF L and S bands.

The antennas in the kit are optimized specifically for the TSM-X™ waveform maximizing reliable throughput and extended range. The HD-BAK supports the TW-950/900, AN/PRC-163, AN/PRC-148C IMBITR and other Mobile Ad-Hoc Networking (MANET) radios.

Features

- Use on multiple radio platforms
- Operator flexibility
- Optimized performance
- Extended range

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HASCALL-DENKE

HD-BAK-2
HD-BAK-2AB
Banded Antenna Kit

Kit Consists of:

Part #	Model Number	Frequency	VSWR	Gain	Design
1Y43300	MPDP1.25-1.45-4	1250-1450MHz	<2:1	4dBi	Dipole
1Y43350	MPDP 1.75-1.85-4	1750-1850MHz	<2:1	4dBi	Dipole
1Y43400	MPDP2.2-2.35-4	2200-2350MHz	<2:1	4dBi	Dipole
1Y38700	MPDP675X4	675-2600MHz	2.5: 1Max	0-2dBi	Dipole
1Y35100	MPDP1755-1815/2200-2270-4	1755-1810/2200-2270MHz	<2:1	4dBi	Dipole

Specifications when stowed

Length	~ 17.5"
Width	~ 2.5"
Weight	1.9Lb

Bag Color	Part Number	Model Number
Black	1Y45350	HD BAK-2
Coyote Brown	1Y45350A	HD BAK-2AB

** Bag—Berry Compliant

** Antennas—Designed and Manufactured in the USA

HD-BWAK675X4
HD-BWAC001
Body Worn Antenna Kit

The Hascall-Denke Body Worn Antenna Kit HD-BWAK675X4 was designed to give radio operators more flexibility in relocating their antenna from the radio.

The antenna supplied with the kit is optimized specifically for the TSM-X™ waveform maximizing reliable throughput and extended range. The HD-BWAK675X4 supports the TW-950/900, AN/PRC-163, AN/PRC-148C IMBITR and other Mobile Ad-Hoc Networking (MANET) radios.

The Hascall-Denke Body Worn Antenna Case HDBWAC001 is available for operators that have existing MPDP675X4 or BWDP675X4 antennas. The antenna case is supplied with a 3' TNC "M" to TNC "F" cable for easy antenna relocation.

HD-BWAK675X4

HD-BWAC001

HD-BWAK675X4
HD-BWAC001
Body Worn Antenna Kit

HD-BWAK675X4 Kit Consists of:

BWDP675X4 Antenna
3' TNC "M" to TNC "F" cable
Antenna Case

Part #	Model Number	Color
1Y48750	HD-BWAK675X4	Black
1Y48750A	HD-BWAK675X4AB	Coyote Brown
1Y48750B	HD-BWAK675X4AC	OCP

HD-BWAC001 Consists of:

3' TNC "M" to TNC "F" cable
Antenna Case

Part #	Model Number	Color
1Y48700	HD-BWAC001	Black
1Y48700A	HD-BWAC001AB	Coyote Brown
1Y48700B	HD-BWAC001AC	OCP

** Case—Berry Compliant

** Antenna—Designed and Manufactured in the USA

MPMP225-380
225-380MHz
UHF Antenna

The MPMP225-380 antenna is designed with a state of the art matching unit for maximum efficiency. Built robust and tough, this antenna is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- Flexible
- Lightweight
- Concealable

Electrical Specifications

Frequency	225-380MHz
Polarization	Vertical
Impedance	50Ω
VSWR	3.0:1 Max
Gain	+1.5 to +2dBi measured on 7.5" x 4"aluminum chassis
Pattern	Omni Directional Azimuth 360° Elevation 72°
Power	10 Watts
Connector	TNC-M

Mechanical Specifications

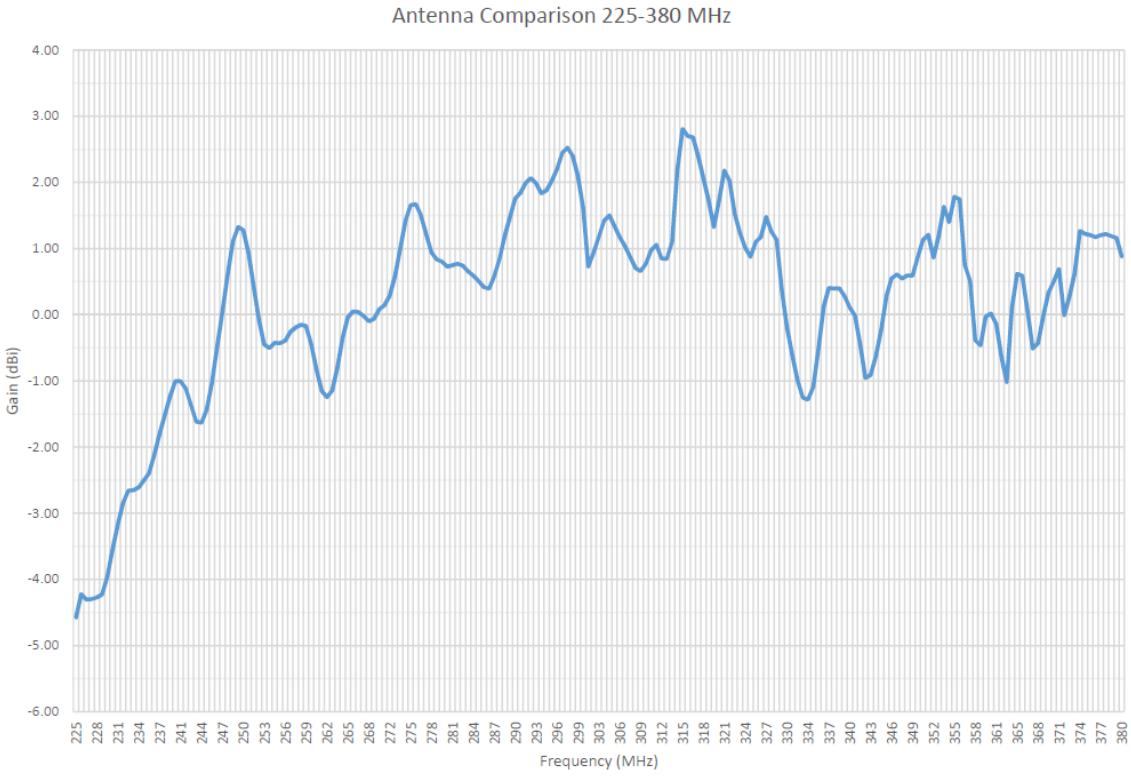
Design	Monopole
Height	12.25in.
Radome	Flexible Whip
Weight	1.52oz.
Color	Black

MPMP225-380

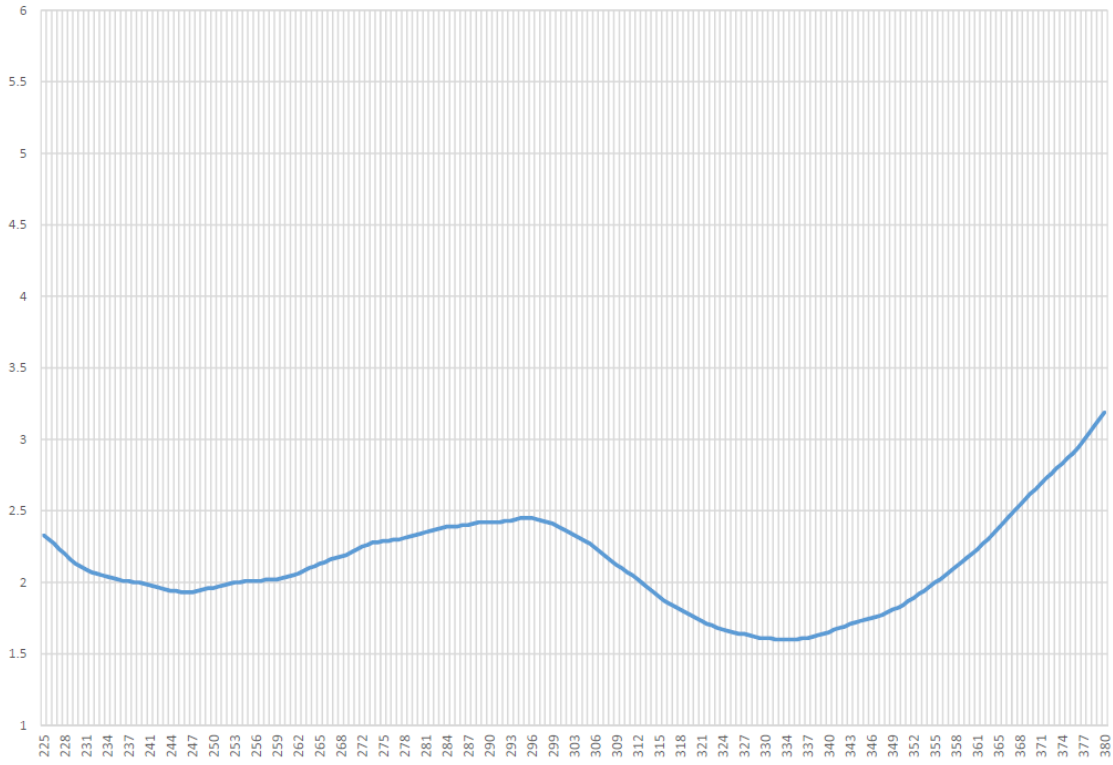
225-380MHz

UHF Antenna

Gain



VSWR



MPMP225-380AB
225-380MHz
UHF Antenna

The MPMP225-380AM antenna is designed with a state of the art matching unit for maximum efficiency. Built robust and tough, this antenna is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- Flexible
- Lightweight
- Concealable

Electrical Specifications

Frequency	225-380MHz
Polarization	Vertical
Impedance	50Ω
VSWR	2.0:1 Max
Gain	-5 to +2dBi measured on 7.5" x 4"aluminum chassis
Pattern	Omni Directional Azimuth 360° Elevation 72°
Power	10 Watts
Connector	TNC-M

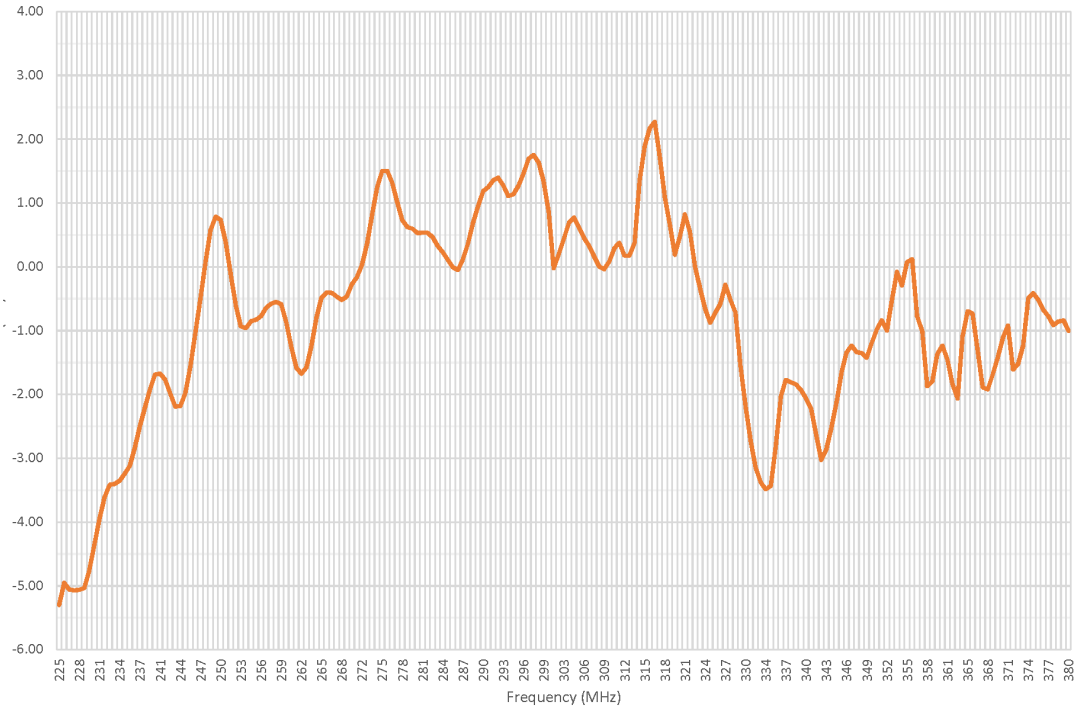
Mechanical Specifications

Design	Monopole
Height	11.25in.
Radome	Flexible Whip
Weight	1.52oz.
Color	Black

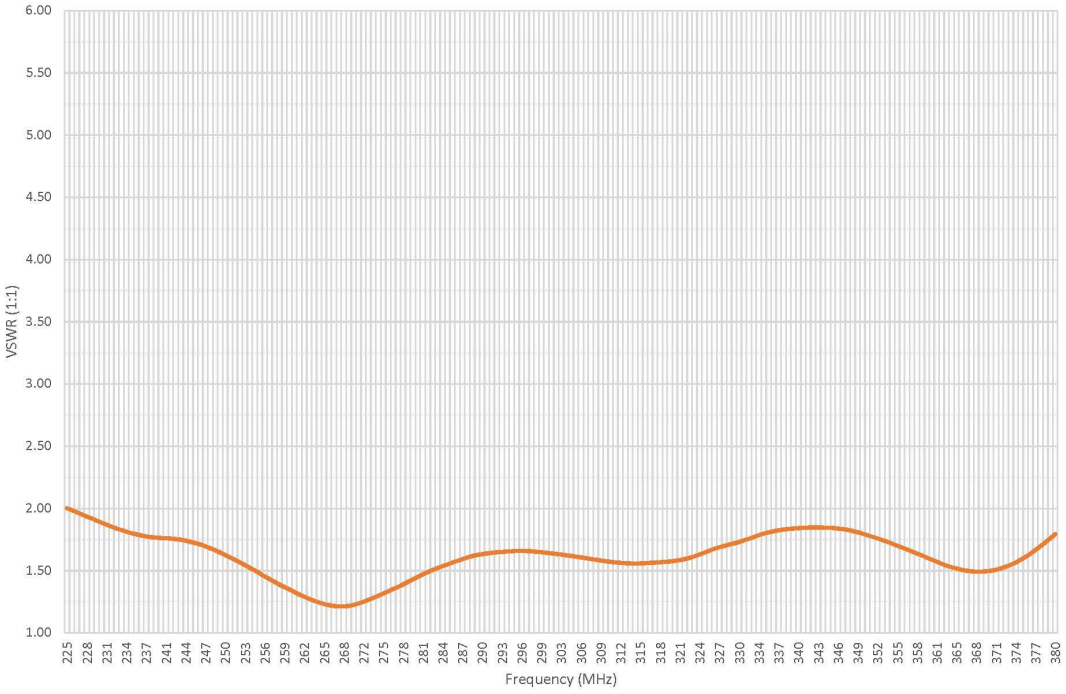
HASCALL-DENKE

MPMP225-380AB
225-380MHz
UHF Antenna

Gain



VSWR



MPMP225X2AD
225-450MHz
Handheld UHF Antenna

The MPMP225-4AD antenna is designed to be used with radio systems operating in the 225-450MHz band.

The antenna is designed with a state of the art matching unit for maximum efficiency. Built robust and tough, this antenna is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- Lightweight
- Low Vertical Signature
- Adaptable to other platforms

Electrical Specifications

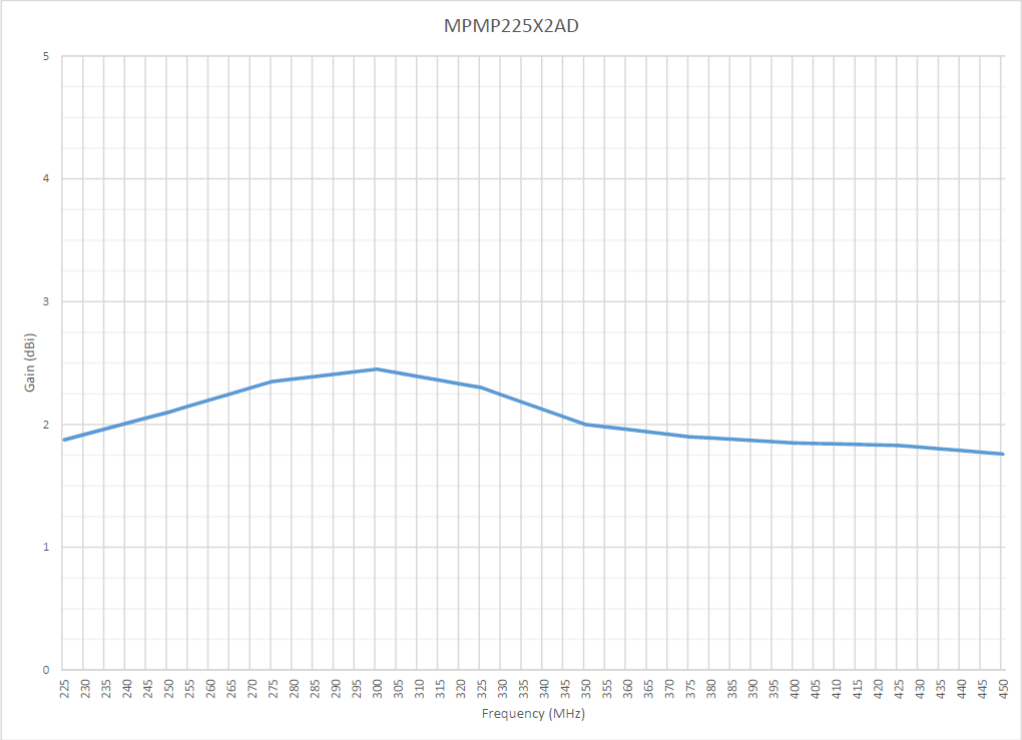
Frequency	225-450MHz
Polarization	Vertical
Impedance	50Ω
VSWR	3.0:1 Max
Gain	+1.5 ~ +2dBi
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	10 Watts
Connector	TNC-M

Mechanical Specifications

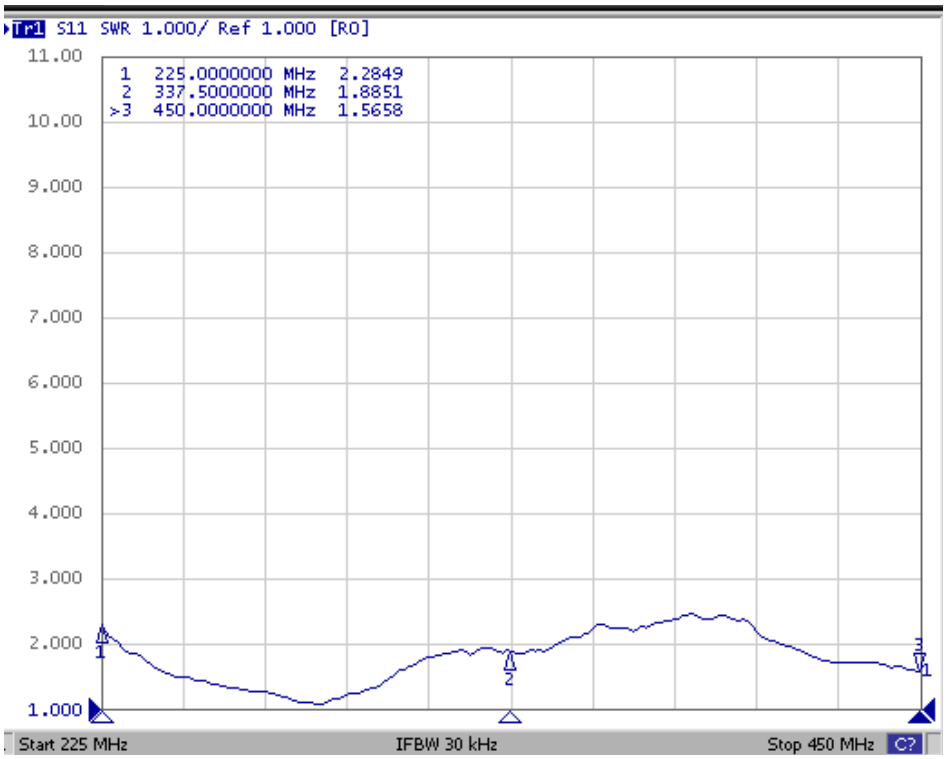
Design	Monopole
Height	10.25in. (.26m)
Radome	Flexible Whip
Weight	2oz. (57g)
Color	Black

MPMP225X2AD
225-450MHz
Handheld UHF Antenna

Gain



VSWR



MPMP225X2AE
225-450MHz
Handheld UHF Antenna

The MPMP225-2AE antenna is designed to be used with radio systems operating in the 225-450MHz band.

The antenna is designed with a state of the art matching unit for maximum efficiency. Built robust and tough, this antenna is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Fully Extended 10”

Collapsed 5½”

Features

- Flexible
- Lightweight
- Low Vertical Signature
- Adaptable to other platforms

Electrical Specifications

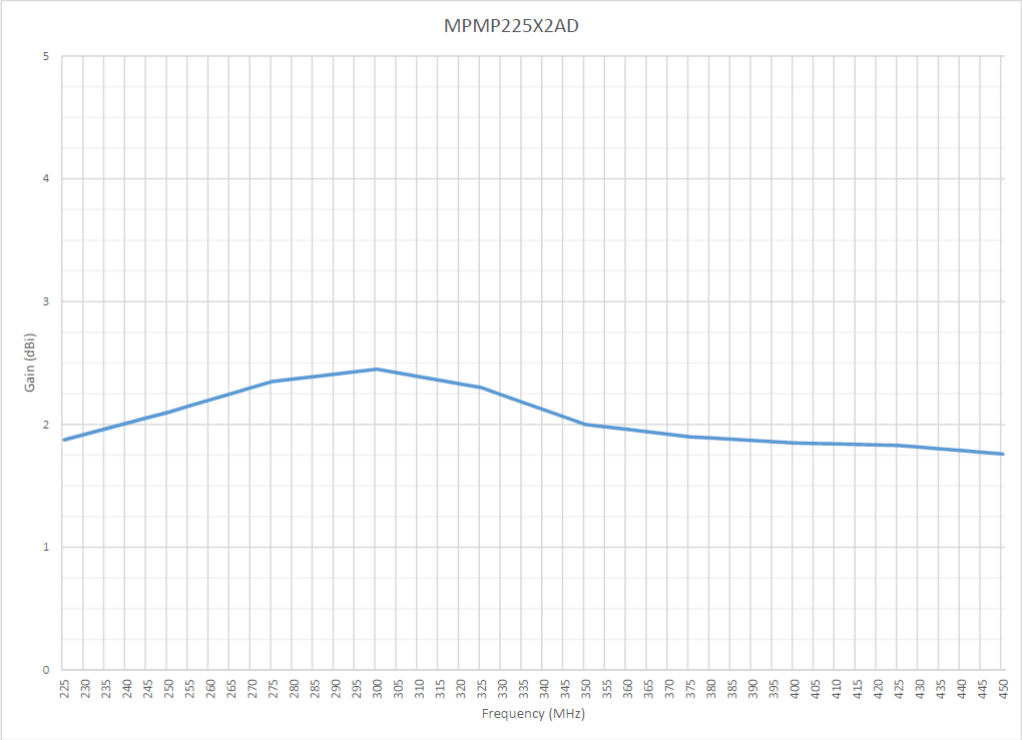
Frequency	225-450MHz
Polarization	Vertical
Impedance	50Ω
VSWR	3.0:1 Max
Gain	+1.5 ~ +2dBi
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	10 Watts
Connector	TNC-M

Mechanical Specifications

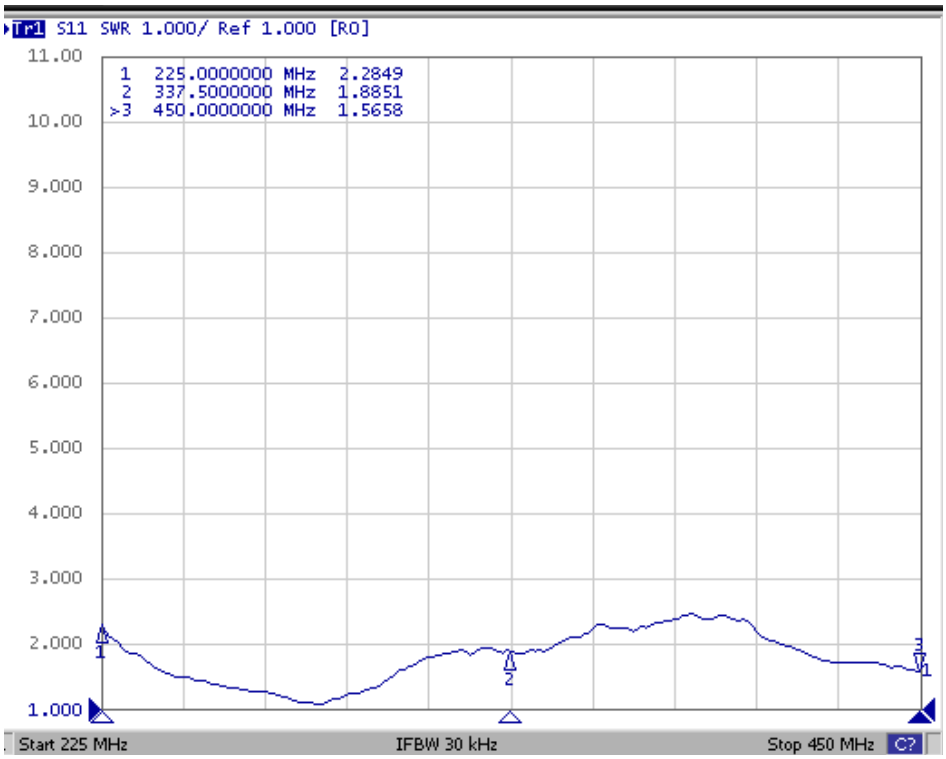
Design	Monopole
Height	10in. (.3m)
Radome	Flexible Whip
Weight	2oz. (.06kg)
Color	Black

MPMP225X2AE
225-450MHz
Handheld UHF Antenna

Gain



VSWR



MPDP675X4
675-2600MHz
Handheld U/L/S Multi-Band Antenna

The MPDP675X4 Multi-Band antenna is designed to be used with multiple radio and LTE/4G communications systems operating in the 675-2600MHz band with one input.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- Broadband
- LTE/4G
- Low VSWR
- Adaptable to multiple communication platforms
- 360° Rotating Gooseneck

Electrical Specifications

Frequency	675-2600MHz
Polarization	Vertical
Impedance	50Ω
VSWR	3.0:1 Max
Gain	-1 ~ +2dBi
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	20 Watts PEP
Connector	TNC-M

Mechanical Specifications

Design	Dipole
Height	11-3/8 in. (.29m)
Width	2.25in. (57mm)
Radome	Xenoy®
Weight	6oz. (170g)
Color	Black/Green/Tan/Grey

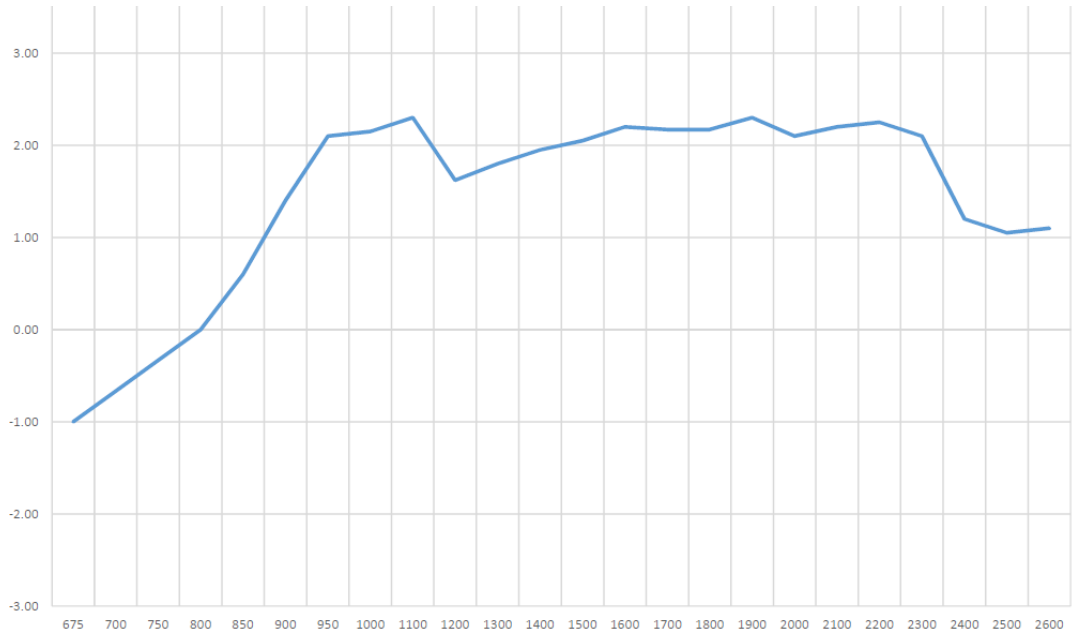
**Specifications are subject to change without prior notice.

MPDP675X4

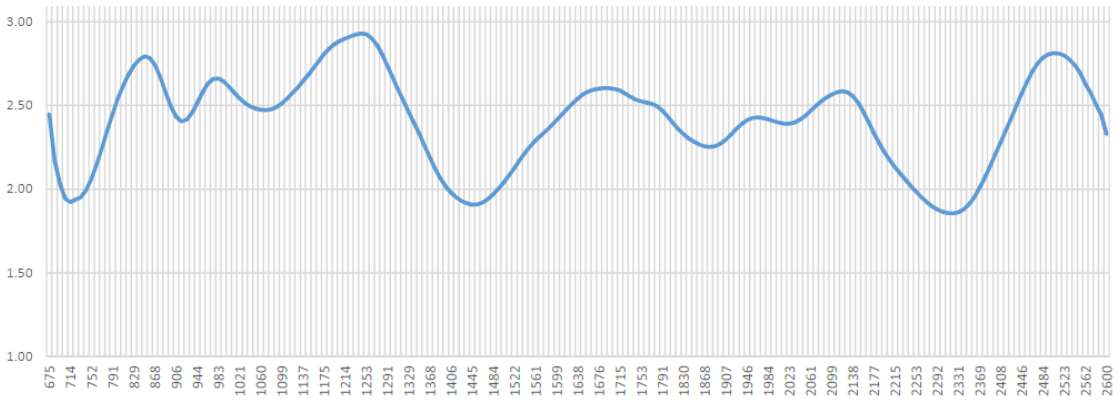
675-2600MHz

Handheld U/L/S Multi-Band Antenna

Gain



VSWR



Made in the USA
ISO 9001 Certified
Form F042, Rev: A

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1Y38700

BWDP675X4
675-2600MHz
Bodyworn U/L/S Multi-Band Antenna

The BWDP675X4 Multi-Band antenna is designed to be used with multiple radio and LTE/4G communications systems operating in the 675-2600MHz band with one input.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- Broadband
- LTE/4G
- Low VSWR
- Adaptable to multiple communication platforms
- Detachable 3' Cable Included

Electrical Specifications

Frequency	675-2600MHz
Polarization	Vertical
Impedance	50Ω
VSWR	3:1 Max
Gain	-1 ~ +2dBi
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	20 Watts PEP
Connector	TNC-M

Mechanical Specifications

Design	Dipole
Height	7.75 in. (197mm)
Width	2.25in. (57mm)
Radome	Xenoy®
Weight	.38lbs. Including Cable (.17kg)
Cable Length	38in (.97m)
Color	Black/Green/Tan/Grey

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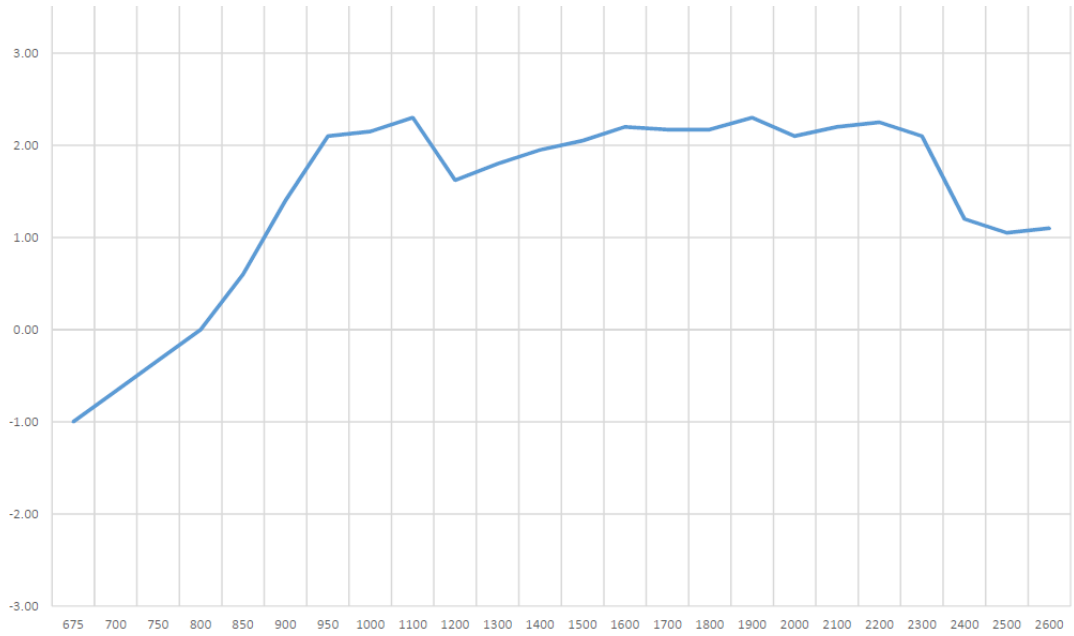
BWDP675X4

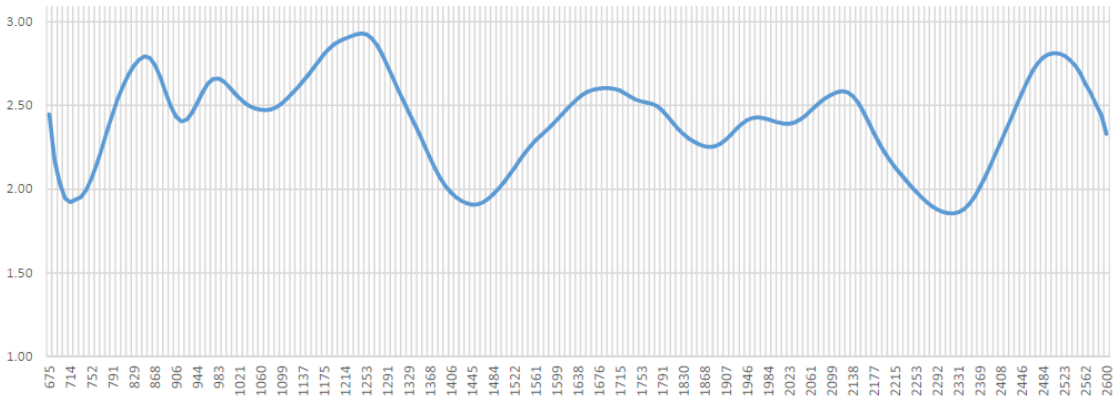
675-2600MHz

Bodyworn U/L/S Multi-Band Antenna

Gain



VSWR



Made in the USA
ISO 9001 Certified
Form F042, Rev: A

www.hascall-denke.com
12285 U.S. Highway 41 N., Palmetto, FL 34221
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1Y39400

BWDP675X4AB
675-2600MHz
Bodyworn U/L/S Multi-Band Antenna

The BWDP675X4AB Multi-Band antenna is designed to be used with multiple radio and LTE/4G communications systems operating in the 675-2600MHz band with one input.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- Broadband
- LTE/4G
- Low VSWR
- Adaptable to multiple communication platforms

Electrical Specifications

Frequency	675-2600MHz
Polarization	Vertical
Impedance	50Ω
VSWR	3:1 Max
Gain	-1 ~ +2dBi
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	20 Watts PEP
Connector	TNC-M

Mechanical Specifications

Design	Dipole
Height	7.75 in. (197mm)
Width	2.25in. (57mm)
Radome	Xenoy®
Weight	.25lbs. (.11kg)
Color	Black/Green/Tan/Grey

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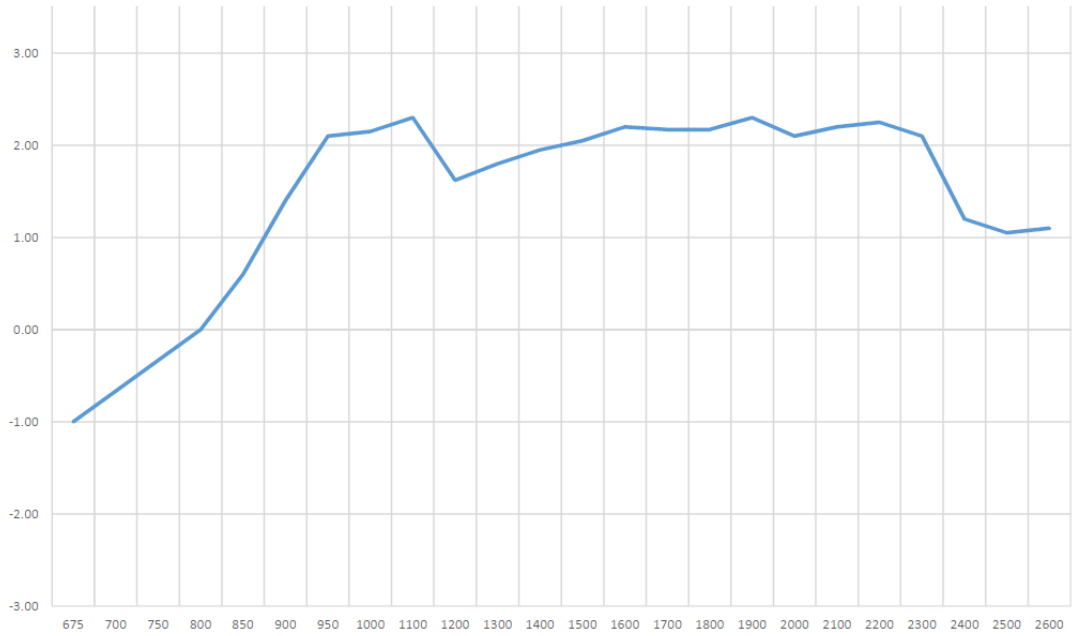
BWDP675X4AB

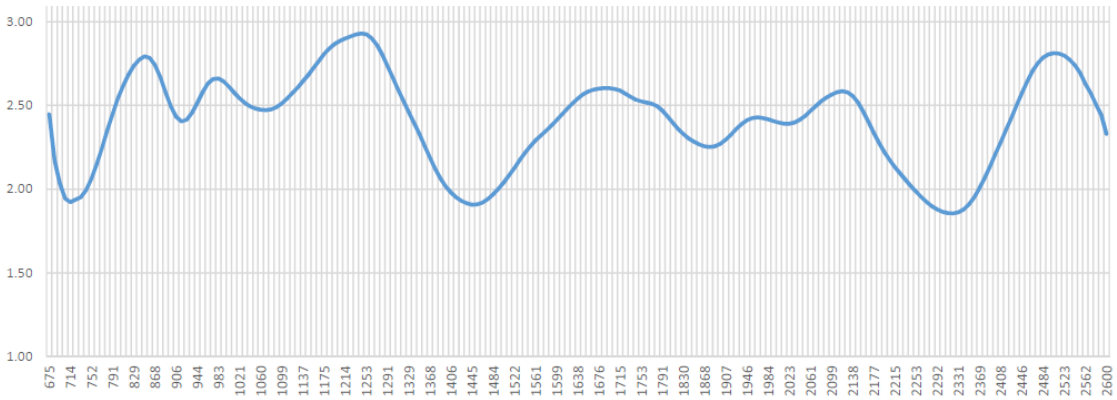
675-2600MHz

Bodyworn U/L/S Multi-Band Antenna

Gain



VSWR



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1Y39400B

MPDP675X4AB
675-2600MHz
Handheld U/L/S Multi-Band Antenna

The MPDP675X4AB Multi-Band antenna is designed to be used with multiple radio and LTE/4G communications systems operating in the 675-2600MHz band with one input.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- Broadband
- LTE/4G
- Low VSWR
- Adaptable to multiple communication platforms
- 360° Rotating Gooseneck

Electrical Specifications

Frequency	675-2600MHz
Polarization	Vertical
Impedance	50Ω
VSWR	3.0:1 Max
Gain	-1 ~ +2dBi
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	20 Watts PEP
Connector	SMA-M

Mechanical Specifications

Design	Dipole
Height	10-3/4 in. (.27m)
Width	2.25in. (57mm)
Radome	Xenoy®
Weight	5oz. (143g)
Color	Black/Green/Tan/Grey

**Specifications are subject to change without prior notice.

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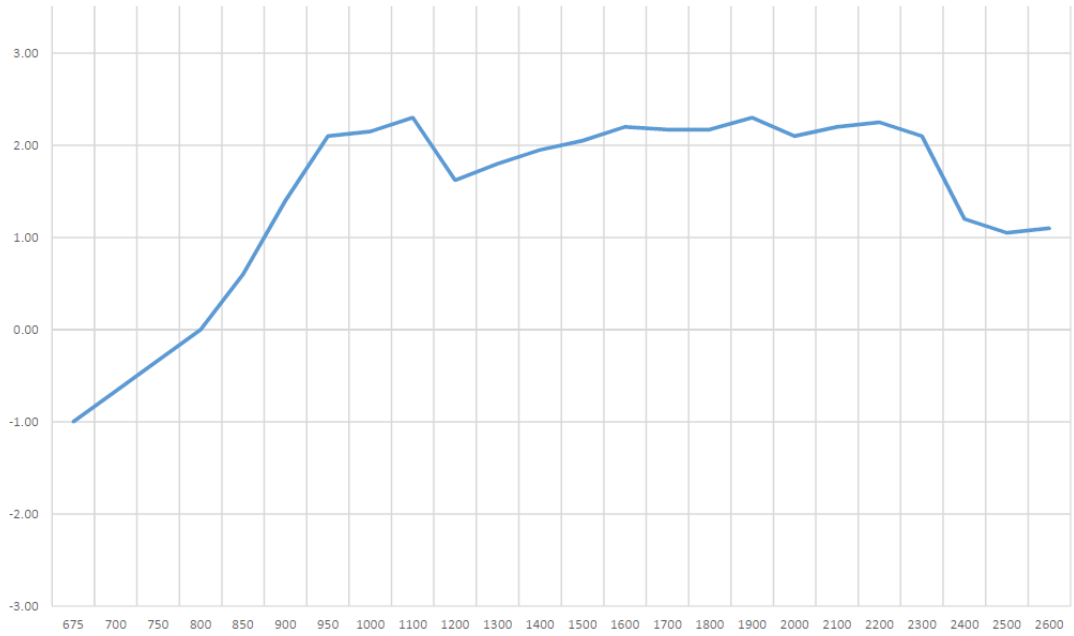
1-800-473-2139

MPDP675X4AB

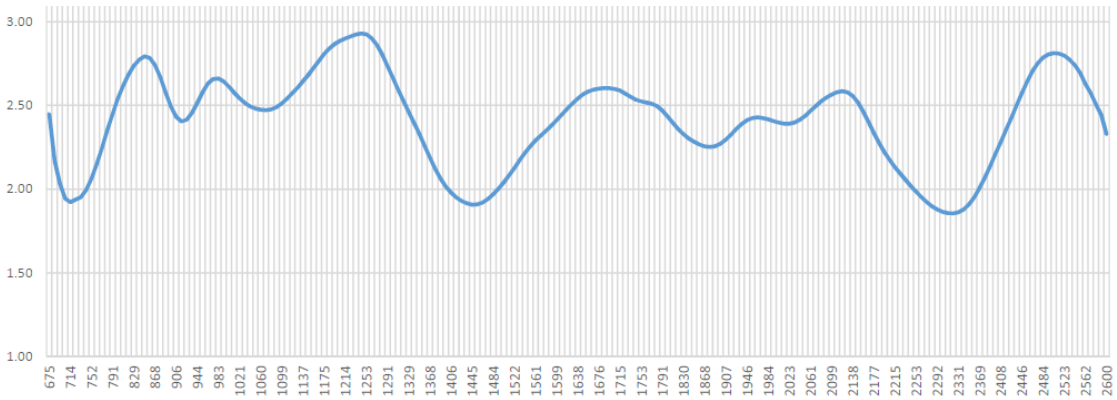
675-2600MHz

Handheld U/L/S Multi-Band Antenna

Gain



VSWR



Made in the USA
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Form F042, Rev: A

www.hascall-denke.com
12285 U.S. Highway 41 N., Palmetto, FL 34221
1-800-473-2139

1Y44400

MPDP700-800
700-800MHz
Handheld/Manpack LTE Antenna

The MPDP700-800 antenna was designed for today's latest Land Mobile Radio (LMR) and Long Term Evolution (LTE) communications platforms for military, commercial, public safety and law enforcement applications.

The antenna has a state-of-the-art radiating element that provides maximum reliability and maximum performance.

Being ground independent, this antenna can be mounted on various platforms (metal or non-metal) with no degradation of performance.

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	700-800MHz
Polarization	Vertical
Impedance	50Ω
VSWR	2.0:1 Typical
Gain	4dBi ± .5
Pattern	Omni Directional Azimuth 360° Elevation 46°
Power	25 Watts
Connector	Type N Male

Mechanical Specifications

Design	Dipole
Height	27¼in. (.69m)
Radome	1.5 in. x .7 in. oval
Weight	.7 lbs. (.32 kg.)
Color	White/Black/Green/Tan/Grey

www.hascall-denke.com
12285 U.S. Highway 41 N., Palmetto, FL 34221
1-800-473-2139

MPDP806-960/1710-1900-4

806-960 & 1710-1900 MHz

Manpack Antenna

The MPDP806-960/1710-1900-4 antenna was designed for today's latest Land Mobile Radio (LMR) and Long Term Evolution (4G/LTE) communications platforms for military, commercial, public safety and law enforcement applications.

The antenna has a state-of-the-art radiating element that provides maximum reliability and maximum performance.

Features

- Ground Independent
- Single Input
- Built to meet MIL-STD-810
- High Gain

Electrical Specifications

Frequency	806-960 MHz & 1710-1990 MHz
Polarization	Vertical
Impedance	50 Ω Nominal
VSWR	3:1 Max 2.5:1 Typical Operational
Gain	4 dBi +/- .5
Radiation Pattern	Azimuth 360° Elevation 25° - 37°
Power	25 Watts
Connector	Type N Male

Mechanical Specifications

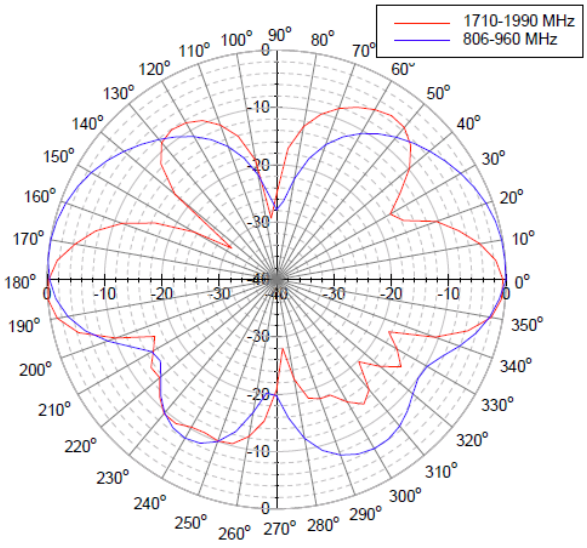
Design	Dipole
Height	28 in. (0.71 m)
Weight	1.5 lb. (0.68 kg)
Color	Black/Green/Tan/Grey

MPDP806-960/1710-1900-4

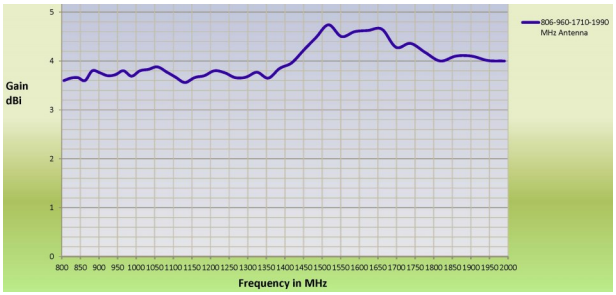
806-960 & 1710-1900 MHz

Manpack Antenna

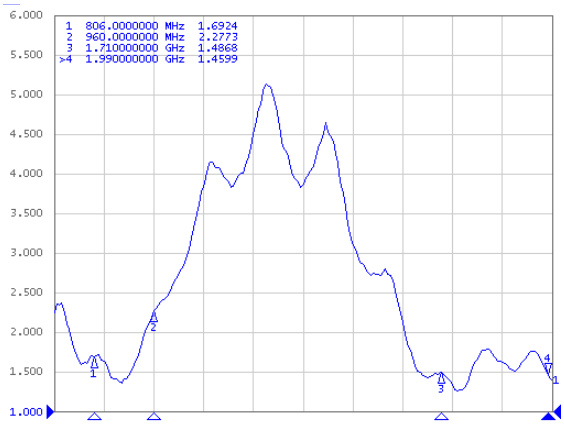
Pattern



Gain



VSWR



MPDP1.25-1.45-4
1250-1450MHz
Handheld L-Band Antenna

The MPDP1.25-1.45-4 antenna is designed to be used with radio systems operating in the 1250-1450MHz band.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- IP 68
- VSWR <2:1
- 360° Rotating Gooseneck
- Consistent Gain across the band
- Adaptable to other platforms

Electrical Specifications

Frequency	1250-1450MHz
Polarization	Vertical
Impedance	50Ω
VSWR	<2:1 Typical
Gain	4dBi +.5
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	20 Watts
Connector	TNC-M

Mechanical Specifications

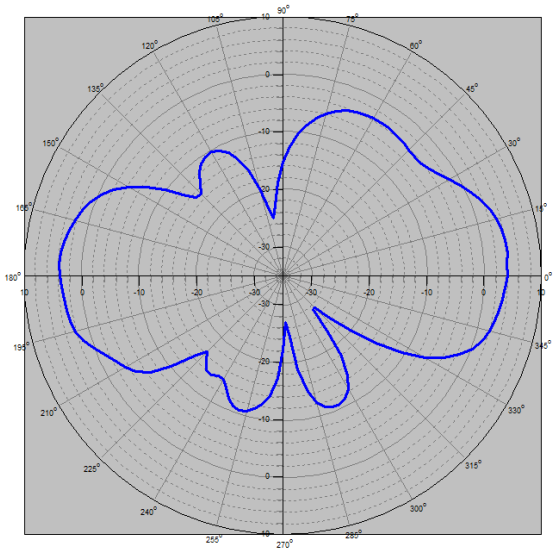
Design	Dipole
Height	15.9 in. (.4 m)
Radome	1.12in. X.5 in. Oval
Weight	4.5oz. (128 g)
Color	Black/Green/Tan/Grey

MPDP1.25-1.45-4

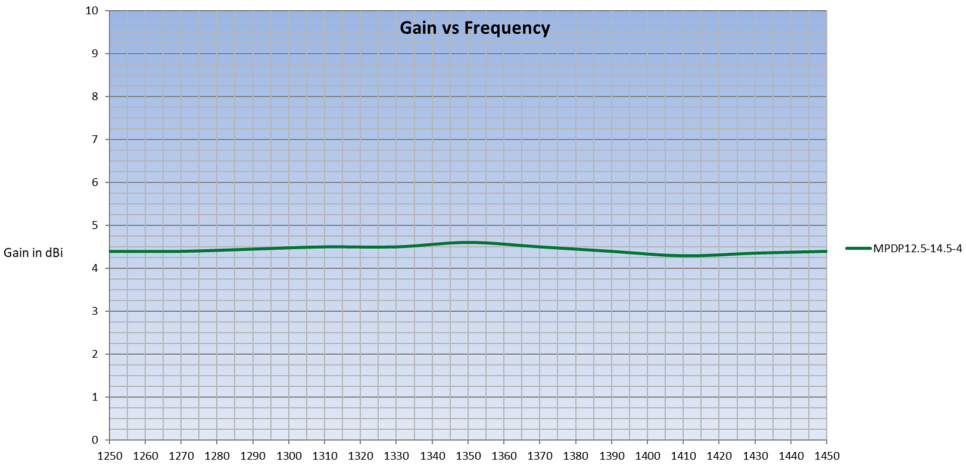
1250-1450MHz

Handheld L-Band Antenna

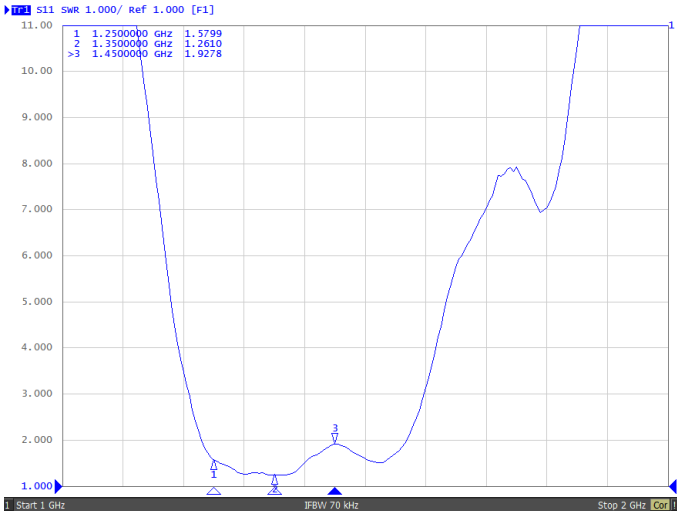
Pattern Reference



Gain



VSWR



MPDP1.75-1.85-4
1750-1850MHz
Handheld L-Band Antenna

The MPDP1.75-1.85-4 antenna is designed to be used with radio systems operating in the 1750-1850MHz band.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- IP 68
- VSWR <2:1
- 360° Rotating Gooseneck
- Consistent Gain across the band
- Adaptable to other platforms

Electrical Specifications

Frequency	1750-1850MHz
Polarization	Vertical
Impedance	50Ω
VSWR	<2:1 Typical
Gain	4dBi +.5
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	20 Watts
Connector	TNC-M

Mechanical Specifications

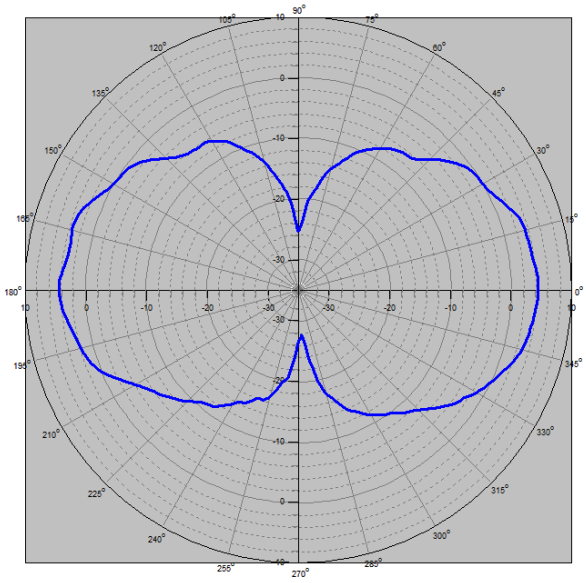
Design	Dipole
Height	13-1/8 in. (.33m)
Radome	1.12in. X.5 in. Oval
Weight	4oz. (112 g)
Color	Black/Green/Tan/Grey

MPDP1.75-1.85-4

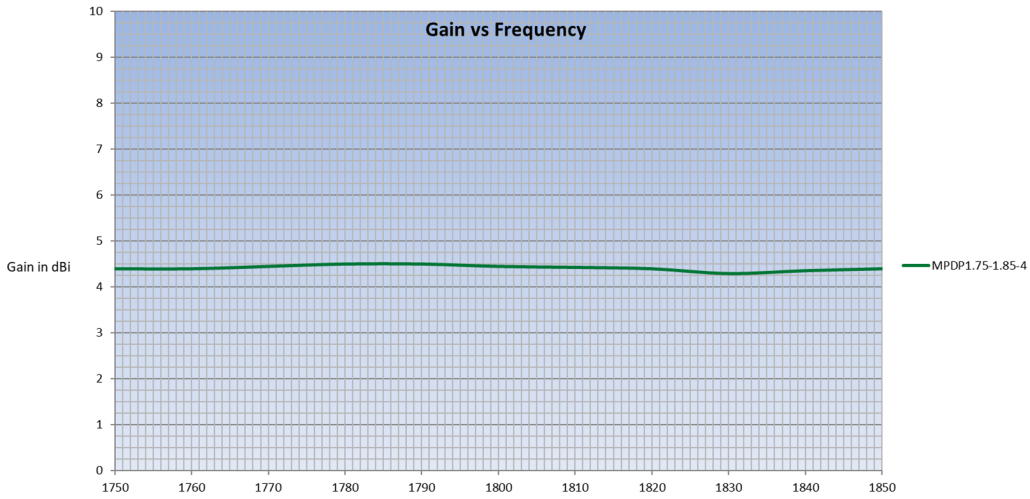
1750-1850MHz

Handheld L-Band Antenna

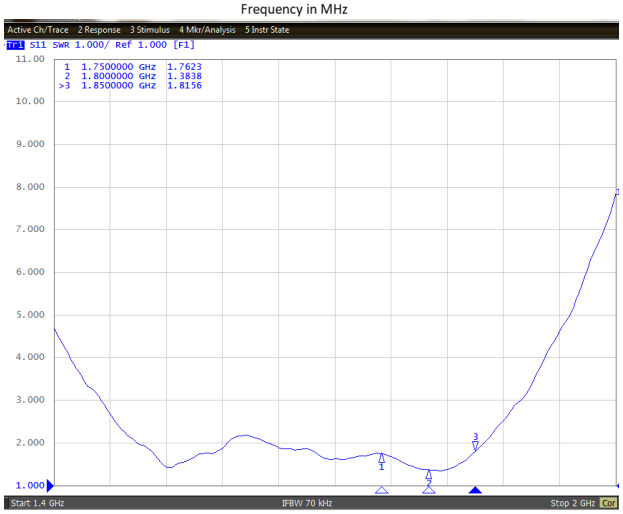
Pattern Reference



Gain



VSWR



MPDP1755-1815/2200-2270-4
1755-1815 & 2200-2270MHz
Handheld L/S Dual Band Antenna

The MPDP1755-1815/2200-2270-4 antenna is designed to be used with Mobile Ad-Hoc Networking (MANET) radio systems. This antenna has been optimized for the Trellisware® TSM™ Waveform and other radios that operate in the 1755-1815 & 2200-2270MHz bands.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- IP 68
- VSWR <2:1
- 360° Rotating Gooseneck
- Consistent Gain across the band
- Adaptable to other platforms

Electrical Specifications

Frequency	1755-1815 / 2200-2270MHz
Polarization	Vertical
Impedance	50Ω
VSWR	<2:1 Typical
Gain	4dBi
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	25 Watts PEP
Connector	SMA

Mechanical Specifications

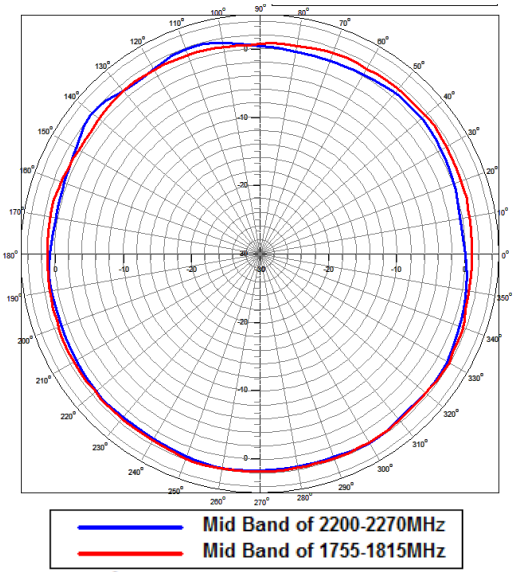
Design	Dipole
Height	11.1n. (.282m)
Radome	1.12in. X.5 in. Oval
Weight	2.4oz. (.68kg)
Color	Black/Green/Tan/Grey

MPDP1755-1815/2200-2270-4

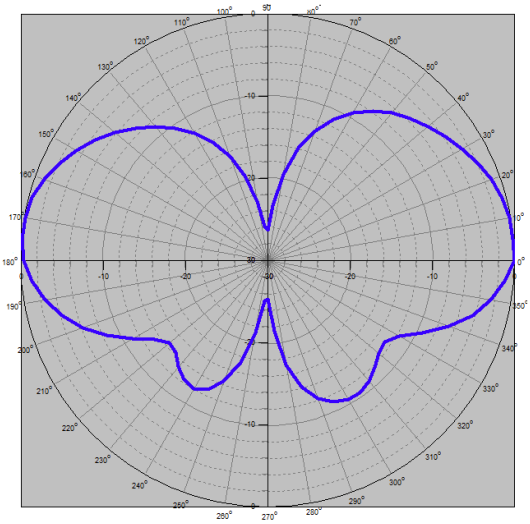
1755-1815 & 2200-2270MHz

Handheld L/S Dual Band Antenna

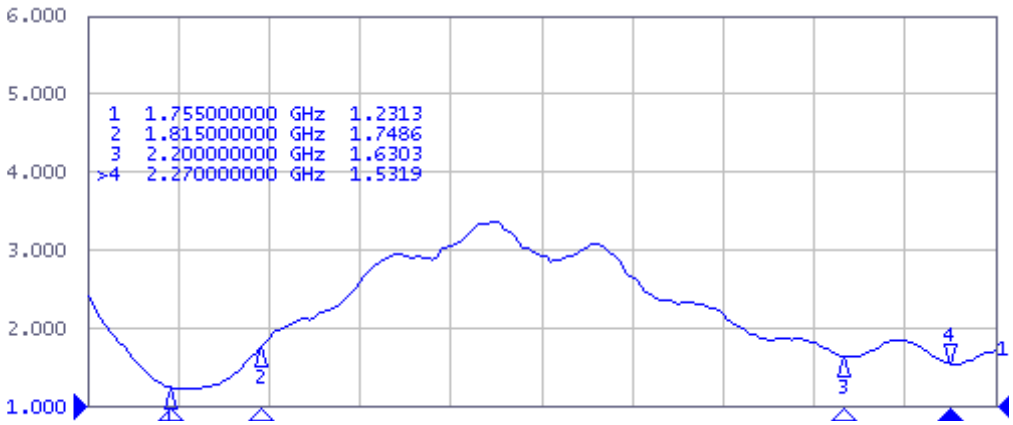
H– Plane



E-Plane



VSWR



MPDP1755-1815/2200-2270-4AB
1755-1815 & 2200-2270MHz
Handheld L/S Dual Band Antenna

The MPDP1755-1815/2200-2270-4AB antenna is designed to be used with Mobile Ad-Hoc Networking (MANET) radio systems. This antenna has been optimized for the Trellisware® TSM™ Waveform and other radios that operate in the 1755-1815 & 2200-2270MHz bands.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- IP 68
- VSWR <2:1
- 360° Rotating Gooseneck
- Consistent Gain across the band
- Adaptable to other platforms

Electrical Specifications

Frequency	1755-1815 / 2200-2270MHz
Polarization	Vertical
Impedance	50Ω
VSWR	<2:1 Typical
Gain	4dBi
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	25 Watts PEP
Connector	TNC-M

Mechanical Specifications

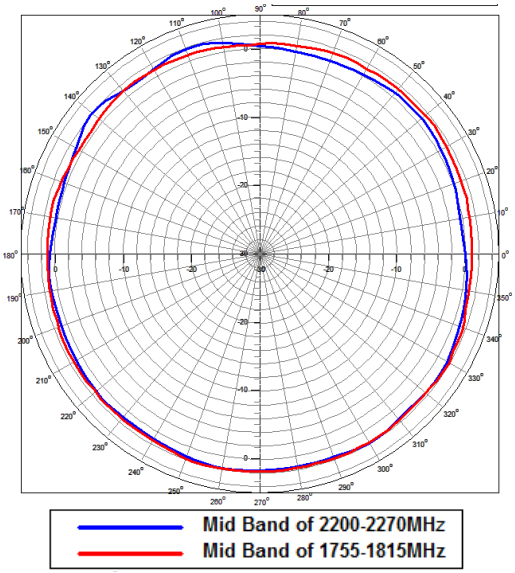
Design	Dipole
Height	12 in. (.3 m)
Radome	1.12in. X.5 in. Oval
Weight	3.7 oz. (105 g)
Color	Black/Green/Tan/Grey

MPDP1755-1815/2200-2270-4AB

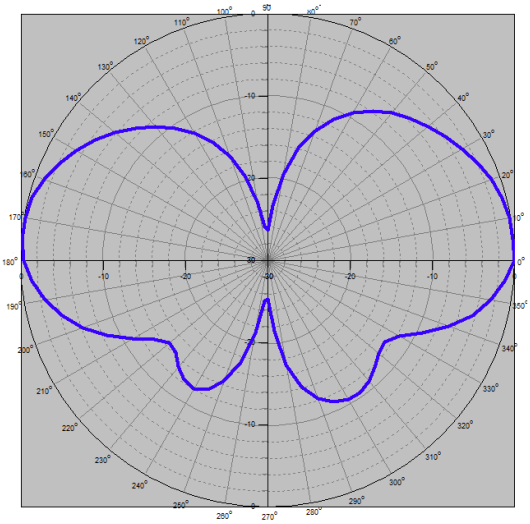
1755-1815 & 2200-2270MHz

Handheld L/S Dual Band Antenna

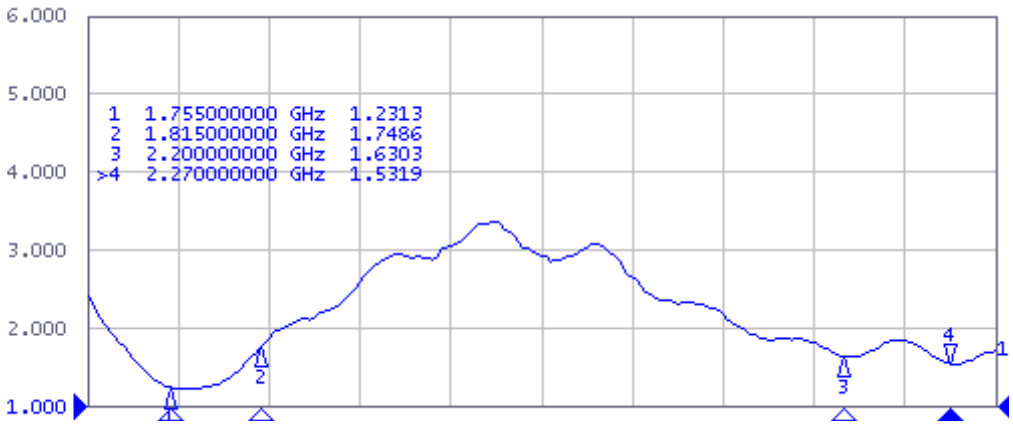
H– Plane



E-Plane



VSWR



MPDP2.2-2.35-4
2200-2350MHz
Handheld S-Band Antenna

The MPDP2.2-2.35-4 antenna is designed to be used with radio systems operating in the 2200-2350MHz band.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- IP 68
- VSWR <2:1
- 360° Rotating Gooseneck
- Consistent Gain across the band
- Adaptable to other platforms

Electrical Specifications

Frequency	2200-2350MHz
Polarization	Vertical
Impedance	50Ω
VSWR	<2:1 Typical
Gain	4dBi +.5
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	20 Watts
Connector	TNC-M

Mechanical Specifications

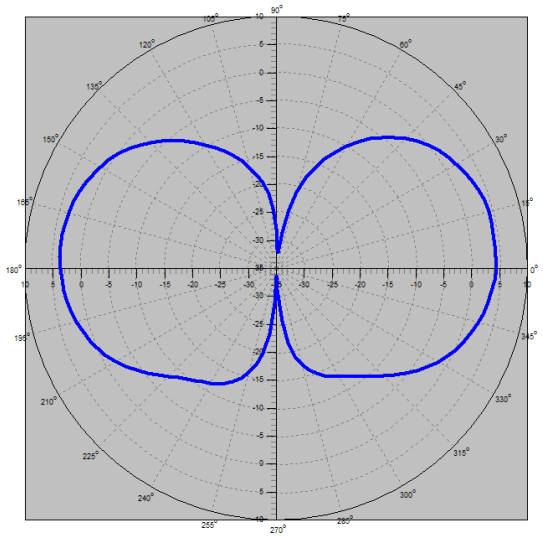
Design	Dipole
Height	12 in. (.3 m)
Radome	1.12in. X.5 in. Oval
Weight	3.7 oz. (105 g)
Color	Black/Green/Tan/Grey

MPDP2.2-2.35-4

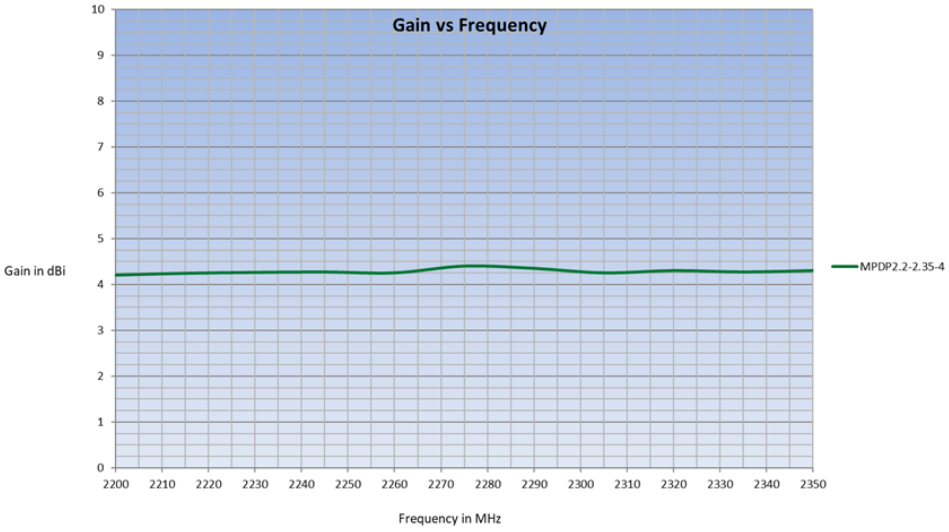
2200-2350MHz

Handheld S-Band Antenna

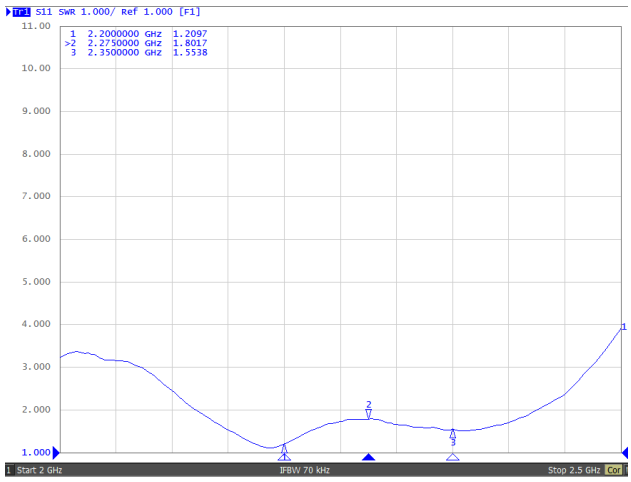
Pattern Reference



Gain



VSWR



MPDP2.2-2.5/4.4-5.875
2200-2500 & 4400-5875MHz
S/C Dual Band Antenna

The MPDP2.2-2.5/4.4-5.875 Dual Band antenna is designed to be used with various radio and communication systems operating in the 2200-2500 & 4400-5.875MHz bands. This antenna allows flexibility for MIMO, Wi-Fi and LTE-U applications.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- IP 68
- Dual Band
- 360° Rotating Gooseneck
- Consistent Gain across the band
- Adaptable to other platforms

Electrical Specifications

Frequency	2200-2500 & 4400-5875MHz
Polarization	Vertical
Impedance	50Ω
VSWR	2:1 Typical, 2.5:1 max
Gain	4dBi @2200-2500MHz
Gain	6dBi @4400-5.875MHz
Pattern	Omni Directional Azimuth 360° Elevation 42°
Power	25 Watts PEP
Connector	TNC-M

Mechanical Specifications

Design	Dipole
Height	16.6in. (.42m)
Radome	1.12in. X.5 in. Oval
Weight	5.06oz. (.14kg)
Color	Black/Green/Tan/Grey

**Specifications are subject to change without prior notice.

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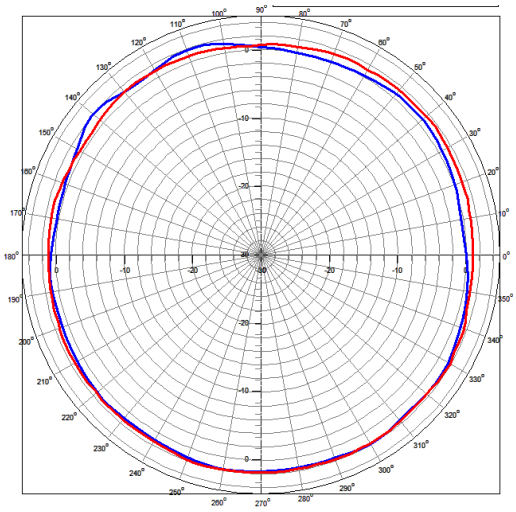
MPDP2.2-2.5/4.4-5.875

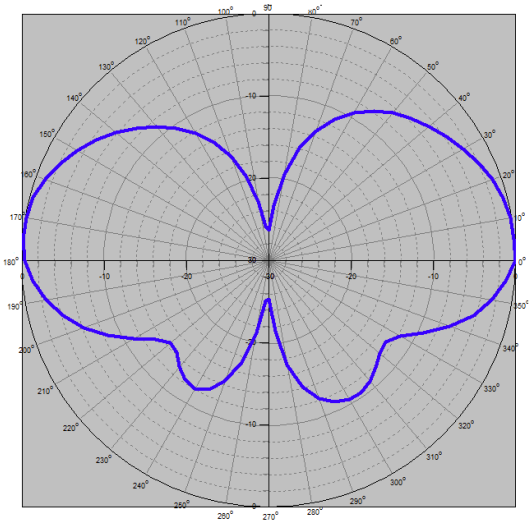
2200-2500 & 4400-5875MHz

S/C Dual Band Antenna

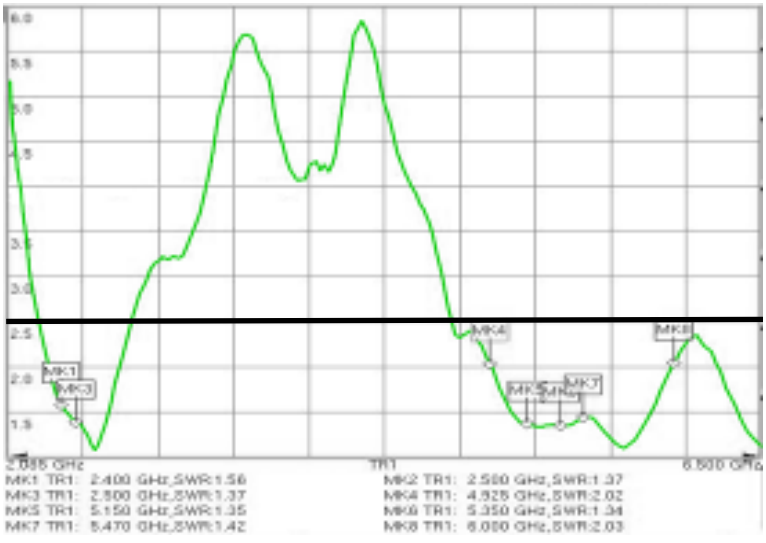
H– Plane



E-Plane



VSWR



MPDP2.3-2.5/5.0-6.0
2300-2500 & 5000-6000 MHz
Dual Band WiFi Antenna

The MPDP2.3-2.5/5.0-6.0 Dual Band WiFi antenna with RP SMA connector is designed to be used with WiFi, M2M, IoT's and 4.9GHz Public Safety Spectrum wireless devices.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is constructed from corrosion resistant materials for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- 802.11ac
- ISM, U-NII 1-3
- 4.9GHz Public Safety Spectrum
- 360° Rotating Gooseneck

Electrical Specifications

Frequency	2300-2500 & 5000-6000 MHz
Polarization	Vertical
Impedance	50 Ω Nominal
VSWR	< 2.0:1 Typical
Gain	2.0 dBi @ 2400-2500 MHz 4.0 dBi @ 5000-6000 MHz
Radiation Pattern	Azimuth 360° Elevation 42°
Power	25 Watts PEP
Connector	Type RP SMA

Mechanical Specifications

Design	Dipole
Height	12.5in. (317.5mm)
Radome	1.2 in. Oval (30 mm)
Weight	3.12oz.
Connector	RP SMA
Color	Black/Green/Tan/White

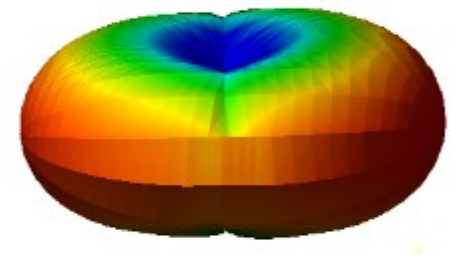
MPDP2.3-2.5/5.0-6.0

2300-2500 & 5000-6000 MHz

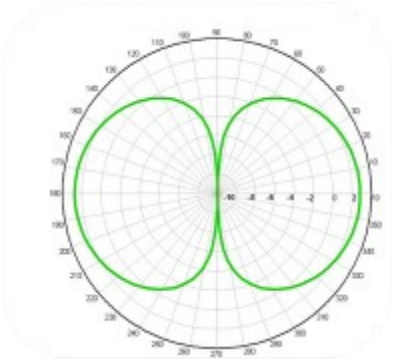
Dual Band WiFi Antenna

Pattern

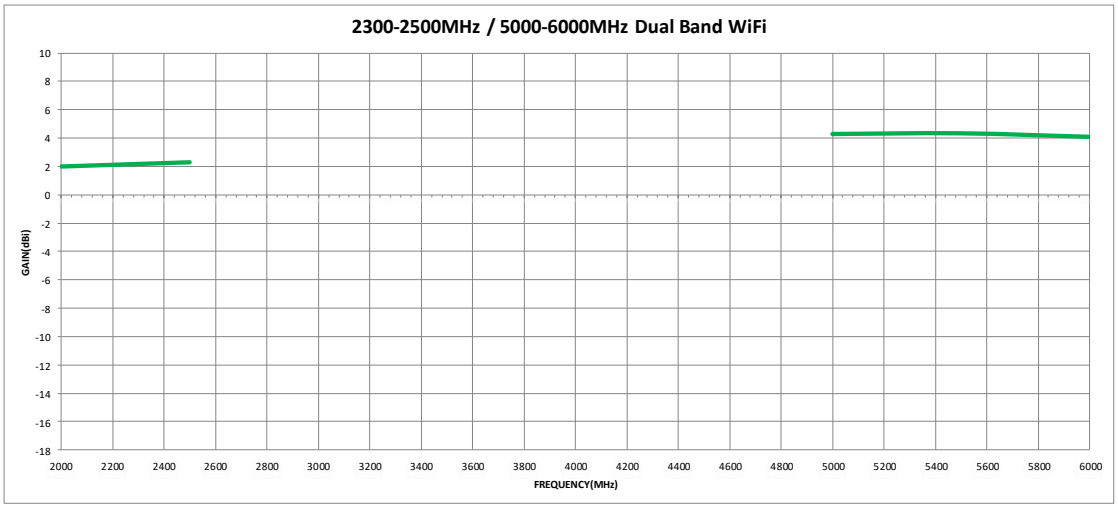
3D REFERENCE



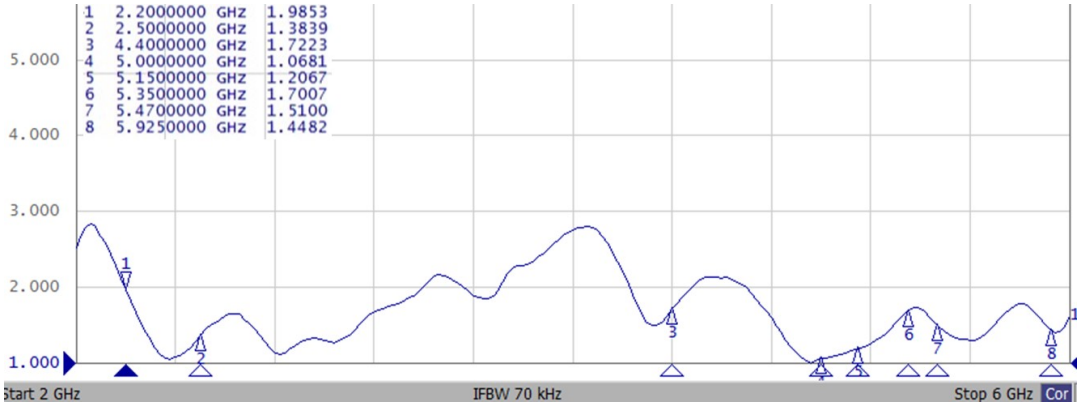
ELEVATION PATTERN REFERENCE



Gain



VSWR



MPDP4.4-6.0-7
4400-6000MHz
C Band Antenna

The MPDP4.4-6.0-7 antenna is designed to be used with various radio and wireless communication systems operating in the 4400-6000MHz bands.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- Broadband coverage
- 360° Rotating Gooseneck
- Consistent Gain across the band
- Adaptable to many platforms

Electrical Specifications

Frequency	4400-6000MHz
Polarization	Vertical
Impedance	50Ω
VSWR	2:1 Typical
Gain	7dBi ±.5
Pattern	Omni Directional Azimuth 360° Elevation 22°
Power	20 Watts PEP
Connector	TNC-M

Mechanical Specifications

Design	Dipole
Height	12-1/4 in. (.31 m)
Radome	.625in. dia. (16mm)
Weight	3.3oz. (94 g)
Color	Black/Green/Tan/Grey

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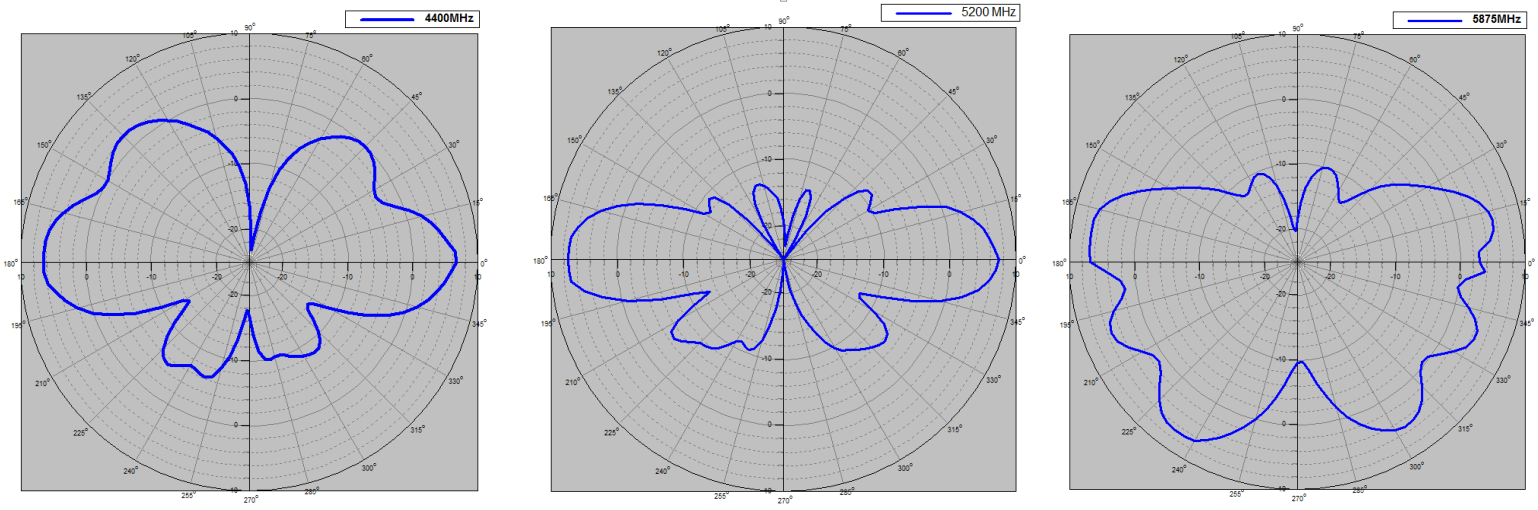
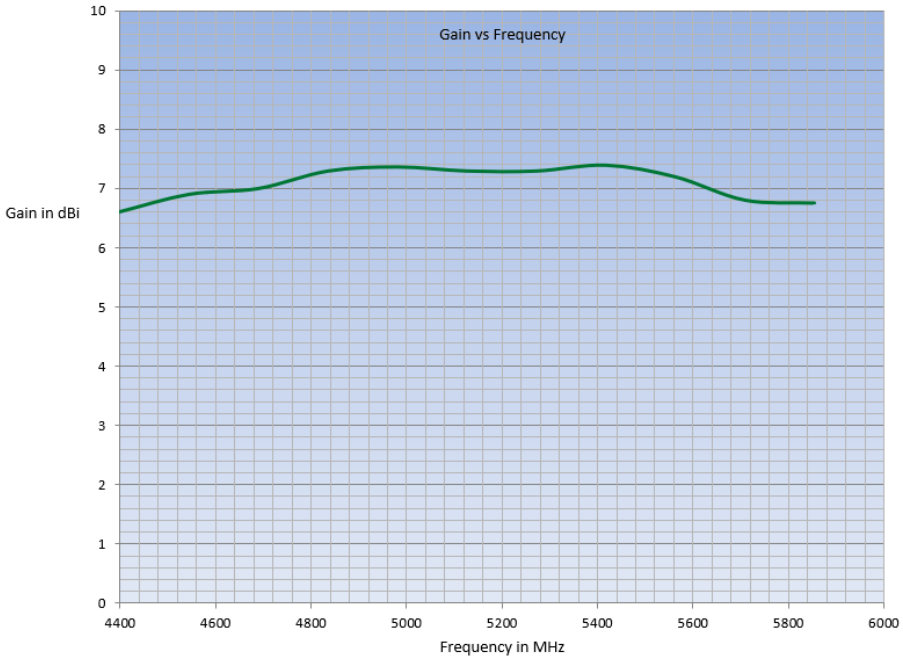
MPDP4.4-6.0-7
4400-6000MHz
C Band Antenna

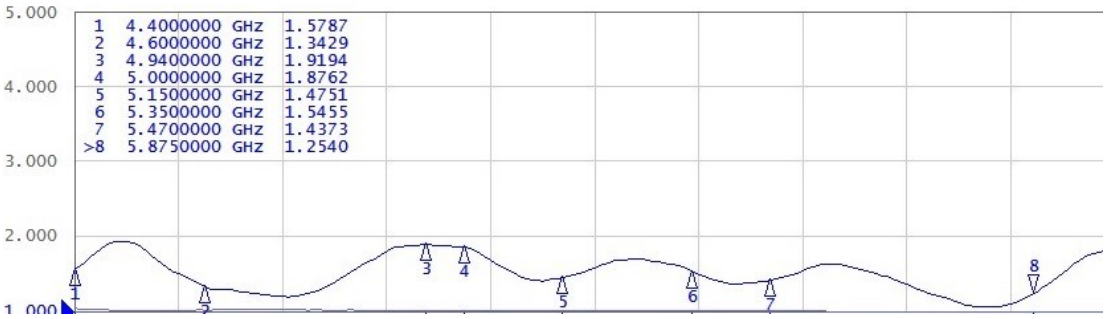
Patterns



Gain



VSWR



Vehicular

HASCALL-DENKE

MVDP150/450/816
136-174/380-520/762-960MHz
Tri-Band Antenna

The MVDP150/450/816 is a full spectrum multiband VHF, UHF-H, 700/800/900MHz antenna designed for today's latest Land Mobile Radios (LMR) for maritime, military, commercial, public safety and law enforcement applications

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

Being ground independent, this antenna can be mounted on various platforms (metal or non-metal) with no degradation of performance.

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	136-174MHz 380-520MHz 762-960MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	2.5:1 operational <3.0:1 Max
Gain	Unity to +2dBi
Pattern	Omni Directional Azimuth 360° Elevation 72°
Power	100 Watts
Connector	12" pigtail w/Type N Female

Mechanical Specifications

Design	Dipole
Height	41.25in. (1.05m)
Diameter	2¼" (57.15mm)
Radome	Fiberglass
Weight	5.5lbs. (2.5kg.)
Wind load	150MPH Max (241kph)
Mounting	1" 14 Thread—Extension sold separate
Color	White/Black/Green/Tan/Grey

**Specifications are subject to change without prior notice.

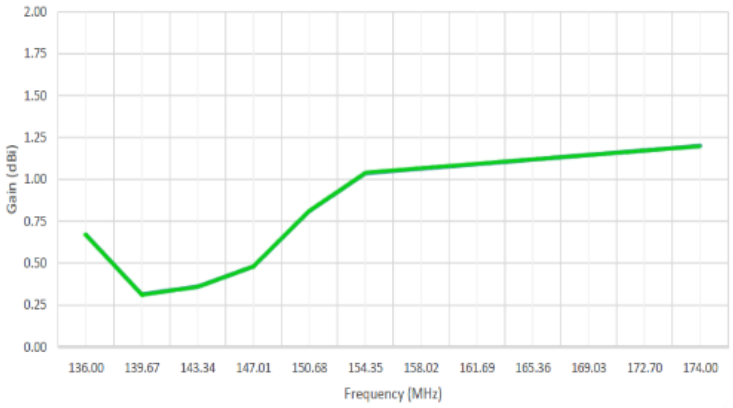
MVDP150/450/816

136-174/380-520/762-960MHz

Tri-Band Antenna

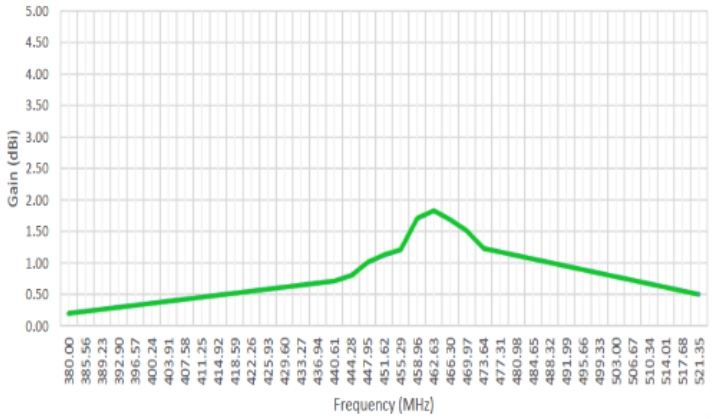
Gain Pattern

136-174MHz



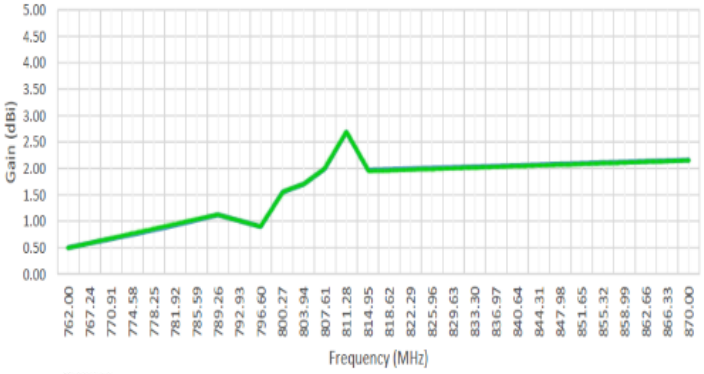
Gain Pattern

380-520MHz

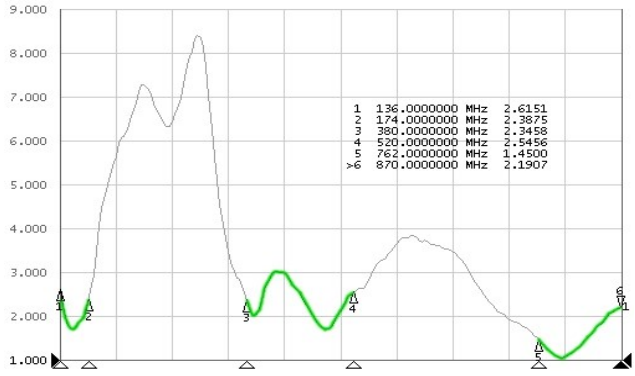


Gain Pattern

762-870MHz



VSWR



MVMP149-175
149-175 MHz
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, allowing it to function without metal to metal contact.

Features

- Low Profile
- Robust Construction
- Unity Gain
- NMO mounting

Electrical Specifications

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

Mechanical Specifications

Design	Monopole
Height	6” (152 mm)
Radome	4.5” Dia (114 mm)
Weight	1 lb (.45 kg)
Mount	NMO
Wind Survival	150 MPH
Color	Painted to customer Spec

MVMP149-175

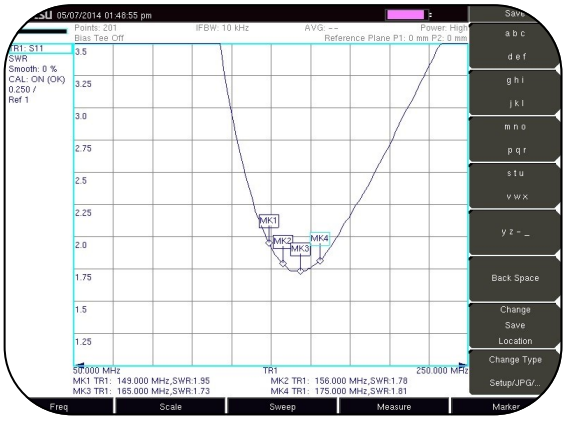
149-175 MHz

Low Profile VHF Antenna

Pattern

Gain

VSWR



MVDP225X2AC
225-450 MHz
Vehicular Dipole Antenna

The MVDP225X2AC 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 environ-

Features

- Ground Plane Independent
- Built to Meet MIL-STD 810

Electrical Specifications

Frequency	225-450 MHz
Polarization	Vertical
Impedance	50 Ω Nominal
VSWR	2:1 Typical 3:1 Max
Gain	1 - 2 dBi
Radiation Pattern @ Mid Band	Azimuth 360° Elevation 90°
Power	20 Watts
Connector	Type N Female

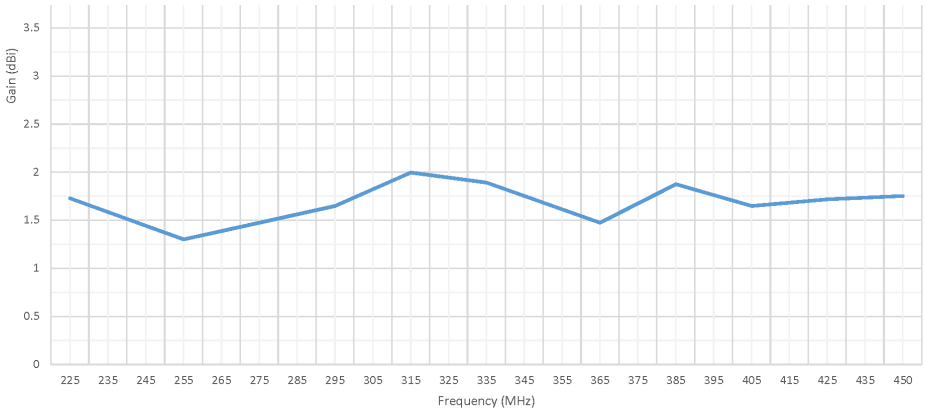
Mechanical Specifications

Design	Dipole
Height	32 in. (0.81 m)
Radome	1 in. Dia (26 mm)
Weight	4.9 lb. (2.2 kg)
Mount	NATO Standard Four .5" (12.7 mm) Holes, equally spaced on a 4.5" (114.3 mm) Dia. BHC
Color	Black/Green/Tan/Grey

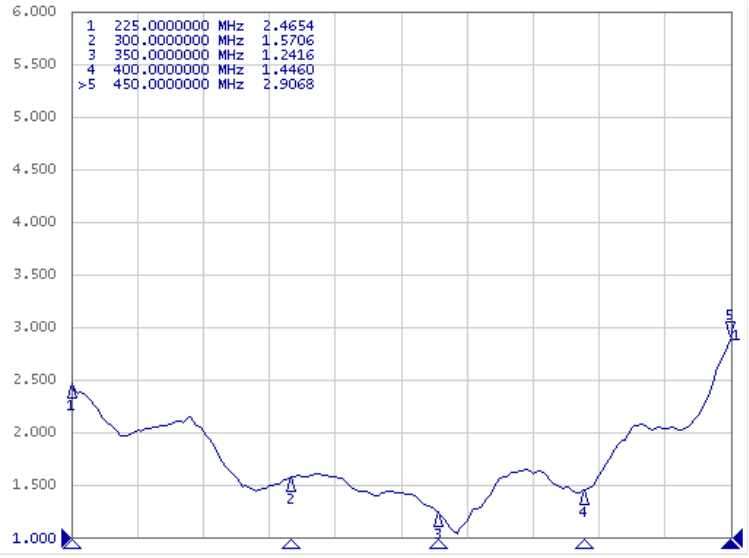
MVDP225X2AC
225-450 MHz
Vehicular Dipole Antenna

Pattern

Gain



VSWR



MVDP400-444-4-D
400-444MHz
Full Duplex SF-STAR Antenna

The MVDP400-444-4-D antenna was designed for full-duplex communications allowing same frequency simultaneous transmission and reception (SF-STAR).

The antenna has state-of-the-art radiating elements with -35 to - 40dB port-to-port isolation and 4dBi of gain for maximum efficiency. Built robust and tough, this antenna is housed in a fiberglass radome and is constructed from corrosion resistant materials for reliability in the harshest environments and designed to meet the rigors of MIL-STD-810.

Features

- -35 to -40dB Port-to-Port Isolation
- Full Duplex
- Spatial Diversity
- MIMO

Electrical Specifications

Frequency	400-444MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	2:1 Typical, 2.5:1 max
Gain	4dBi
Radiation Pattern	Azimuth 360° Elevation 45°
Isolation	-35 to –40dB Avg.
Power	50 Watts
Connector	(2) Type N Female

Mechanical Specifications

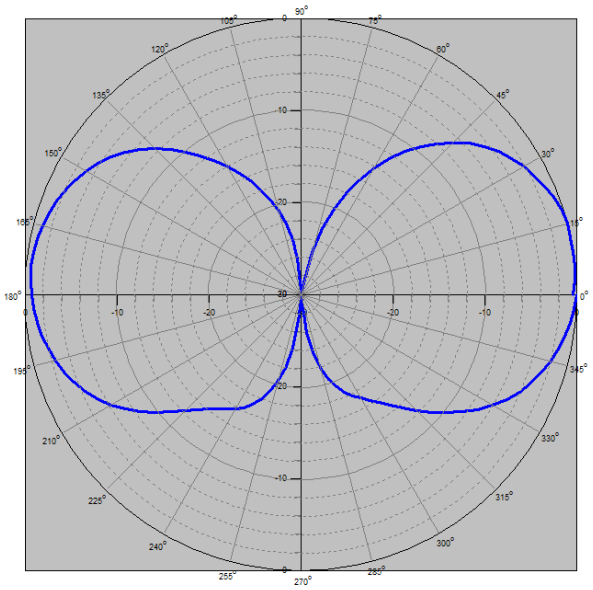
Design	Dipole
Height	~83 in. (2.21m)
Radome	Fiberglass
Weight	8 lbs (3.63kg)
Mount	NATO 4 Bolt
Color	Black/Green/Tan/Grey/White

MVDP400-444-4-D

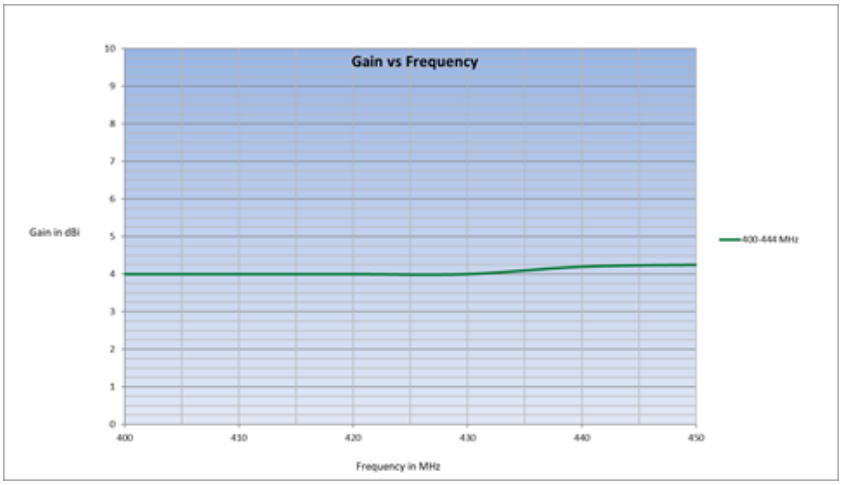
400-444MHz

Full Duplex SF-STAR Antenna

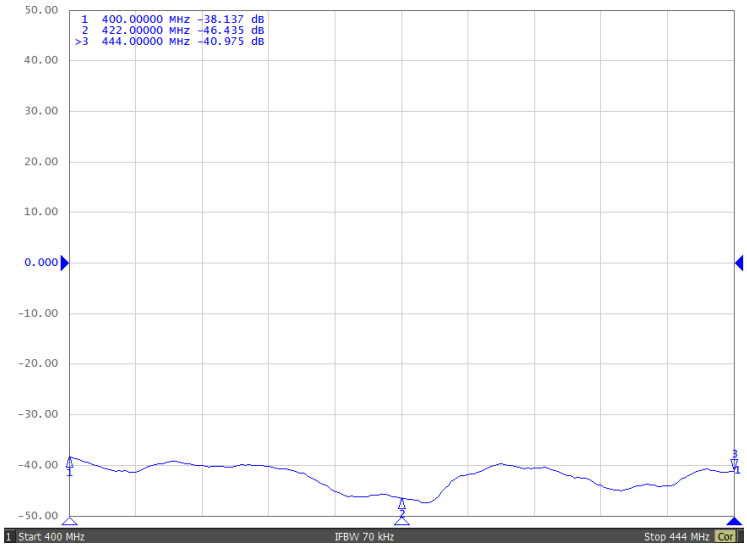
Pattern



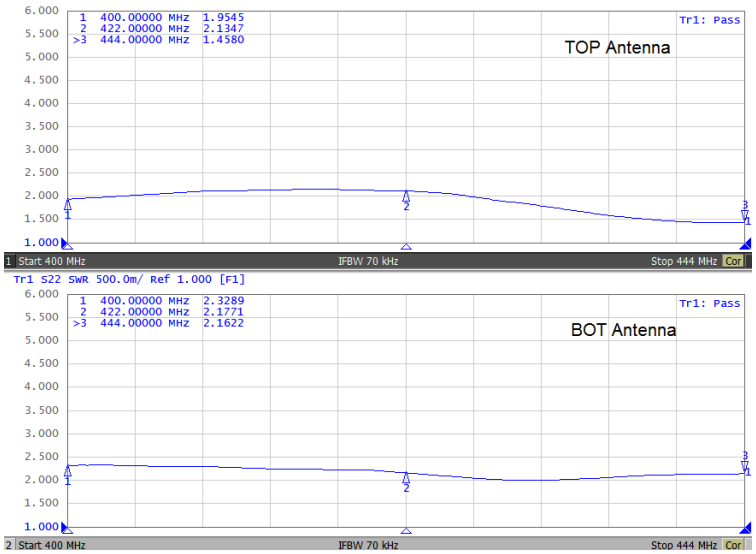
Gain



Isolation



VSWR



MVDP698X4
698-2600MHz
Vehicular 4G LTE / MANET Antenna

The MVDP698X4 antenna was designed for Fourth Generation (4G) Long Term Evolution (LTE) and Mobile Ad-Hoc Networking (MANET) communications platforms for tactical and commercial vehicles.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- Ground plane independent
- 4G/LTE communications
- MANET communications
- Low Vertical Signature

Electrical Specifications

Frequency	698-2600MHz
Polarization	Vertical
Impedance	50Ω
VSWR	3.0:1 Max
Gain	+3 ~ +5dBi ±.5
Pattern	Omni Directional Azimuth 360° Elevation 37 ~ 58°
Power	50 Watts
Connector	Type N Female

Mechanical Specifications

Design	Dipole
Height	28.5 in. (724mm)
Diameter	1.5in. ~ 1.75in. (38.1 ~ 44.5mm)
Radome	Fiberglass
Weight	5lbs. (2.27kg.)
Mounting	NATO 4 Hole
Color	Black/Green/Tan/Grey

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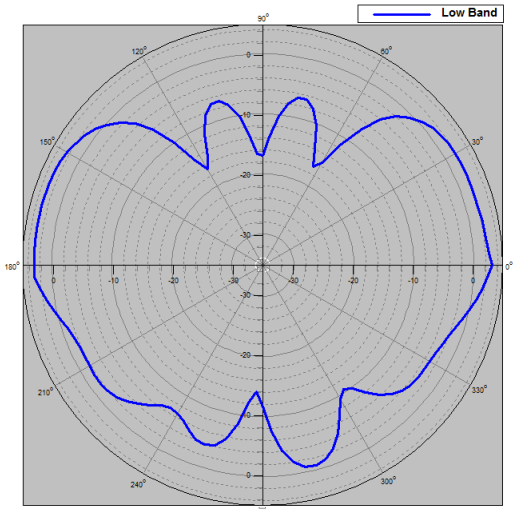
MVDP698X4

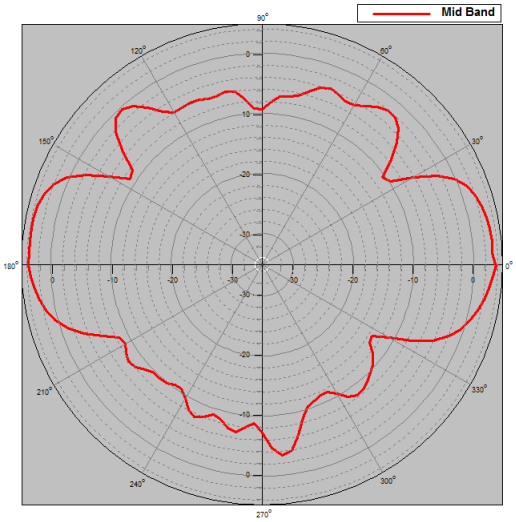
698-2600MHz

Vehicular 4G LTE / MANET Antenna

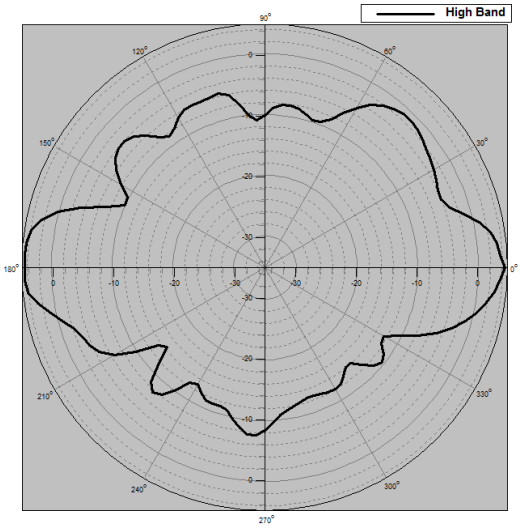
Pattern Reference 698MHz



Pattern Reference 1375MHz



Pattern Reference 2600MHz



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1Y39750

MVDP700-2700
700-2700MHz
Vehicular 4G LTE Antenna

The MVDP700-2700 antenna was designed for Fourth Generation (4G) Long Term Evolution (LTE) communications. This antenna has an High Strength Magnetic Base perfect for on-the-move applications.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- Ground plane independent
- 4G/LTE Ready
- High Strength Magnetic Base
- Low Vertical Signature

Electrical Specifications

Frequency	700-2700MHz
Polarization	Vertical
Impedance	50Ω
VSWR	3.0:1 Max
Gain	+3 ~ +5dBi ±.5
Pattern	Omni Directional Azimuth 360° Elevation 37 ~ 58°
Power	50 Watts
Connector	User Defined (cable optional)

Mechanical Specifications

Design	Dipole
Height	~18.25 in. (472mm)
Diameter	1.5in. ~ 1.75in. (38.1 ~ 44.5mm)
Radome	Fiberglass
Weight	3.1lbs. (1.41kg)
Mounting	5” dia. magnetic base
Color	Black/Green/Tan/Grey

**Specifications are subject to change without prior notice.

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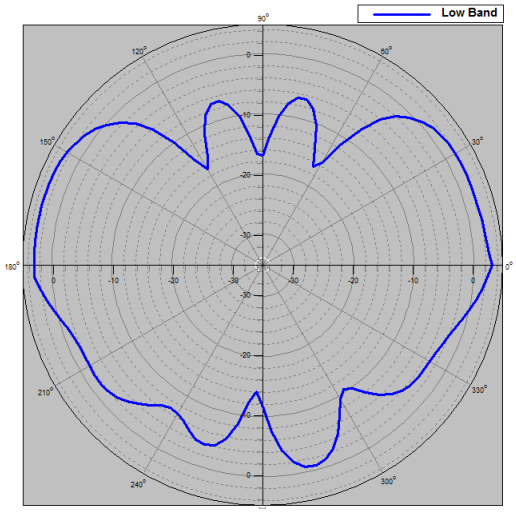
MVDP700-2700

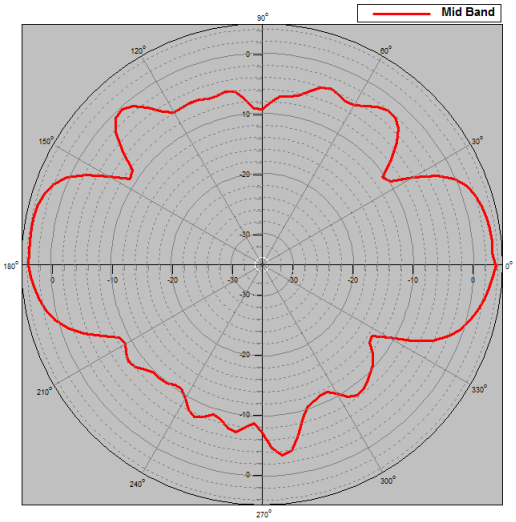
700-2700MHz

Vehicular 4G LTE Antenna

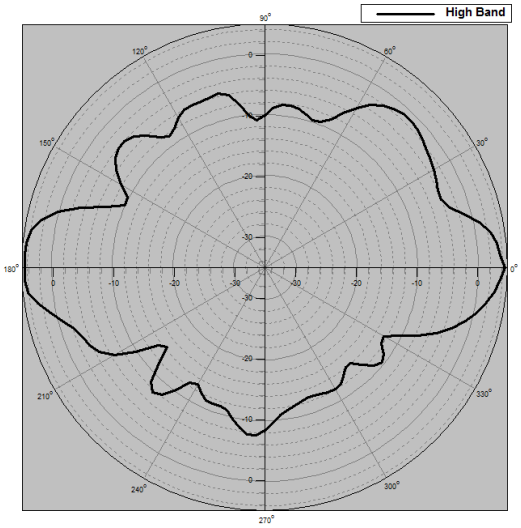
Pattern Reference 700MHz



Pattern Reference 1375MHz



Pattern Reference 2700MHz



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1Y23950

MVDP1755-1815/2200-2270-4
1755-1815 & 2200-2270MHz
Vehicular L/S Dual Band Antenna

The MVDP1755-1815/2200-2270-4 antenna is designed to be used with Mobile Ad-Hoc Networking (MANET) vehicular radio systems. This antenna has been optimized for the Trellisware® TSM™ Waveform and other radios that operate in the 1755-1815 & 2200-2270MHz bands.

The antenna is designed with a state of the art radiating element for maximum efficiency. Built robust and tough, this antenna is housed in a thick UV stable radome and is constructed from corrosion resistant material for reliability in the harshest environments and also designed to meet the rigors of MIL-STD-810.

Features

- Low VSWR
- Consistent Gain across the band
- Optimized for TSM™ Waveform
- Superior Electrical Performance
- Low Vertical Signature

Electrical Specifications

Frequency	1755-1815 / 2200-2270MHz
Polarization	Vertical
Impedance	50Ω
VSWR	<2:1 Typical
Gain	4dBi
Pattern	Omni Directional Azimuth 360° Elevation 45°
Power	20 Watts
Connector	Type N Female

Mechanical Specifications

Design	Dipole
Height	24in. (610mm)
Radome	1.25in. OD (32mm)
Weight	4lbs. (1.8kg)
Color	Black/Green/Tan/Grey

MVDP4.4-5.875-7-DAB
4400-5875 MHz
Dual Polarization Omnidirectional Antenna

The MVDP4.4-5.875-7-DAB is designed to work with all radios operating from 4.4-6.0 GHz. This Band 4 antenna is designed to maximize performance for HCLOS (High Capacity Line of Sight) and TRILOS (Terrestrial Transmission Line of Sight) Radios.

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

Features

- Ideal for HCLOS & TRILOS radios
- Dual Polarization
- Ground Plane Independent
- NATO Flange with Spring

Electrical Specifications

Frequency	4400-6000 MHz
Polarization	Dual (Horizontal & Vertical)
Impedance	50 Ω Nominal
VSWR	2:1 Maximum
Gain	< 6 dBi
Radiation Pattern @ Mid Band	Azimuth 360° Elevation 24°
Power	25 Watts
Connector	(2) Type N Female

Mechanical Specifications

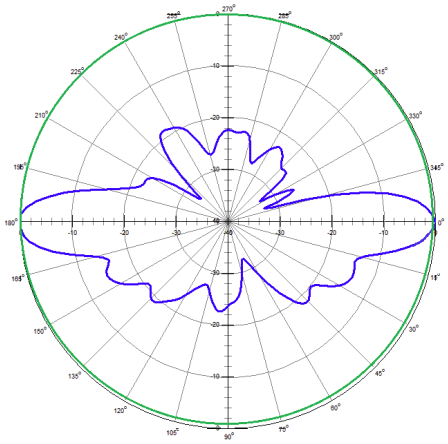
Design	Dipole
Height	20 in. (0.51 m)
Radome	2.75 in. Dia (70 mm)
Weight	5.7 lb. (2.59 kg)
Mount	NATO Standard Four .5” (12.7 mm) Holes, equally spaced on a
Color	Black/Green/Tan/Grey

MVDP4.4-5.875-7-DAB

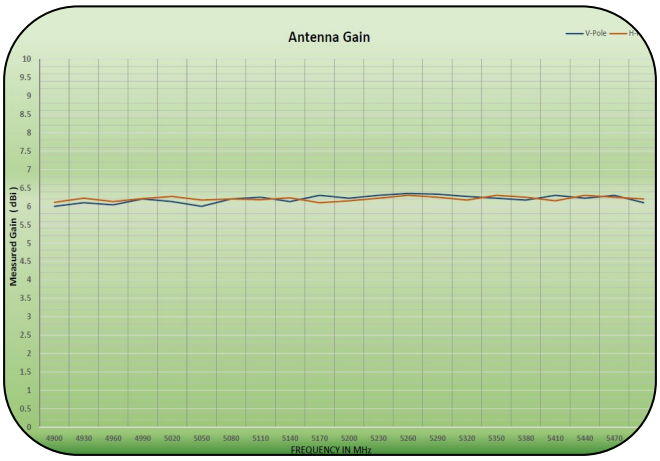
4400-5875 MHz

Dual Polarization Omnidirectional Antenna

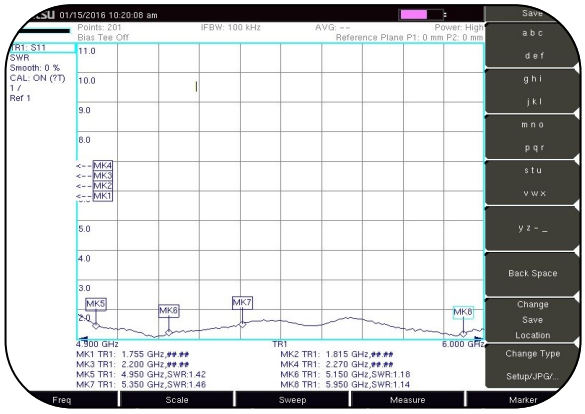
Pattern



Gain



VSWR



Marine

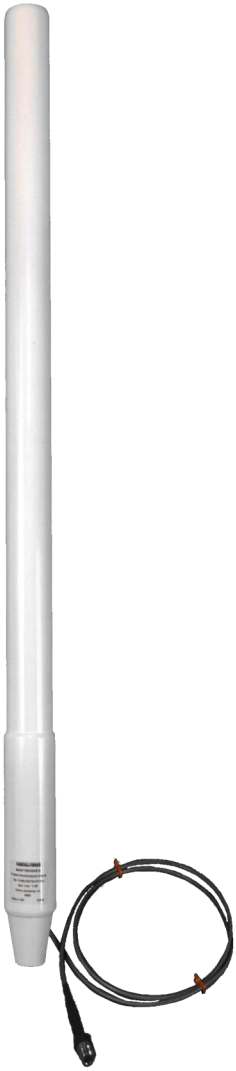
HASCALL-DENKE

MADP117-138
117-138MHz
Maritime VHF-AM Antenna

The MADP117-138 antenna was designed for today's latest VHF-AM communications platforms for maritime, military, commercial, and law enforcement applications.

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

Being ground independent, this antenna can be mounted on various maritime platforms (metal or non-metal) with no degradation of performance.



ICARUS
Maritime Antenna Line

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	117-138MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	2:1 Typical
Gain	≥ 2dBi
Pattern	Omni Directional Azimuth 360° Elevation 72°
Power	50Watts
Connector	Type N Female

Mechanical Specifications

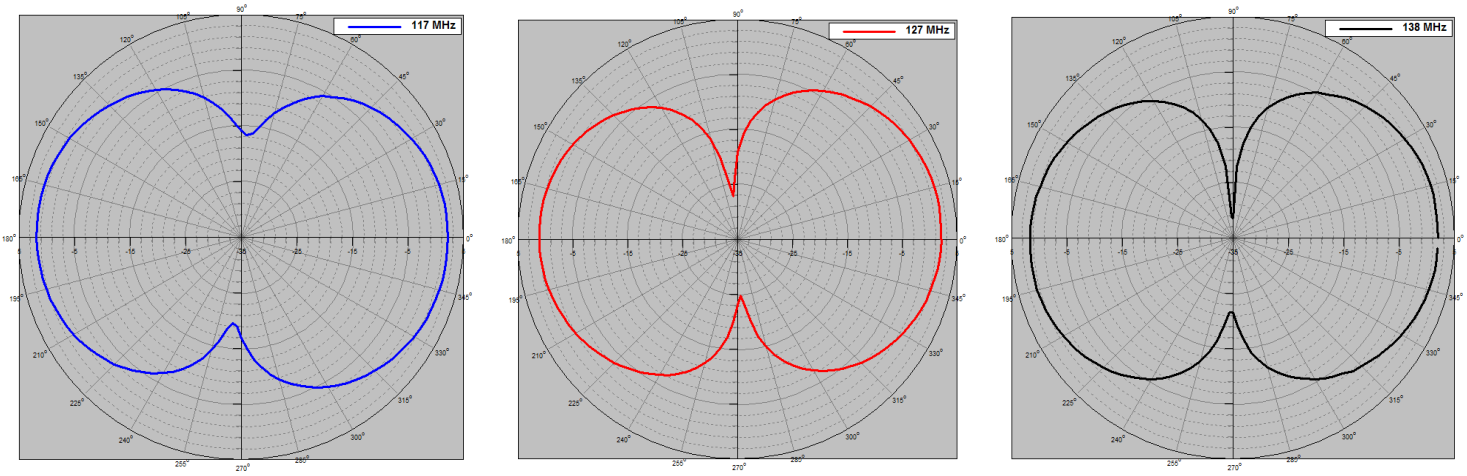
Design	Dipole
Height	50.5in. (1.3m) w/o extension
Diameter	2¼in. (57.15mm)
Radome	Fiberglass
Weight	5.5lbs. (2.5kg.)
Wind load	150MPH Max (241kph)
Mounting	1" 14 Thread Extension
Color	White/Black/Green/Tan/Grey

MADP117-138

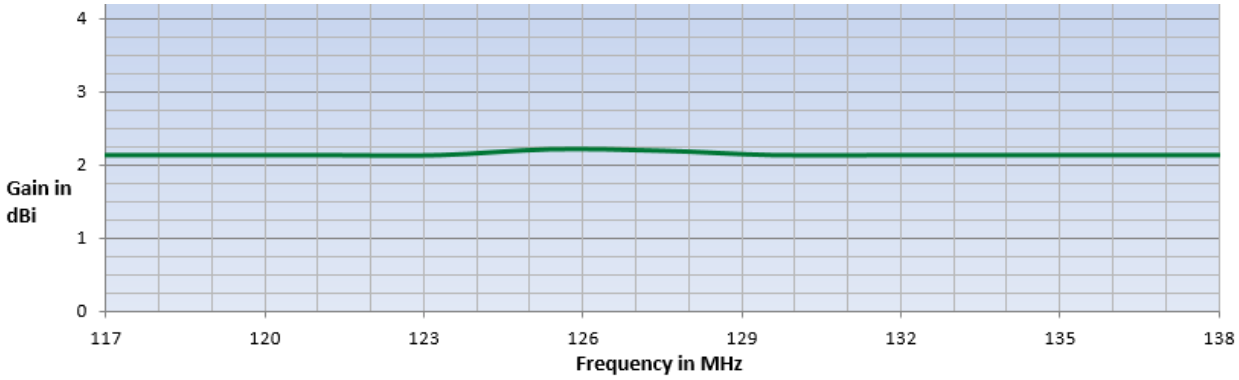
117-138MHz

Maritime VHF-AM Antenna

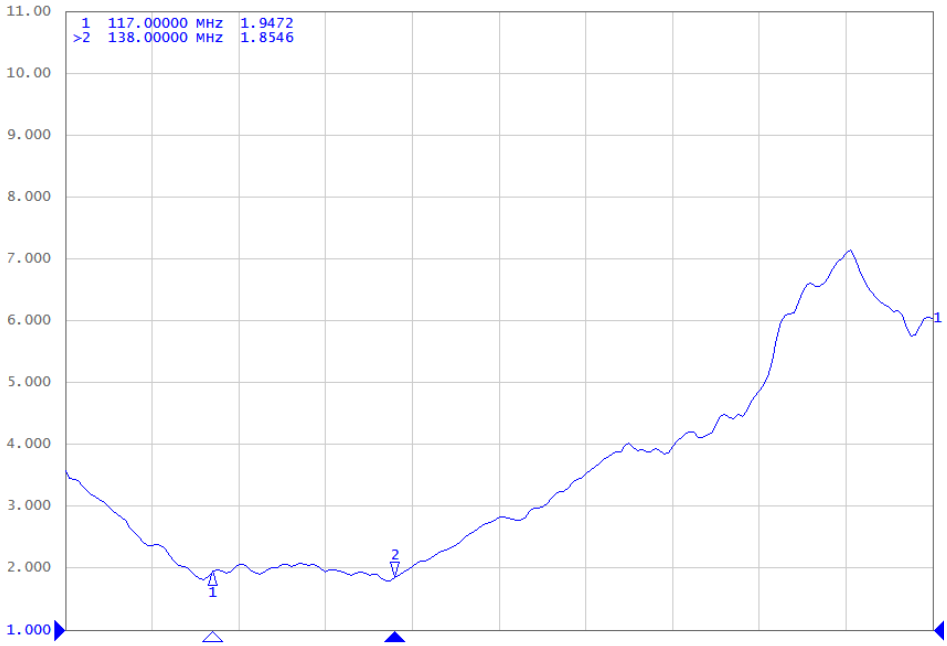
Patterns



Gain



VSWR



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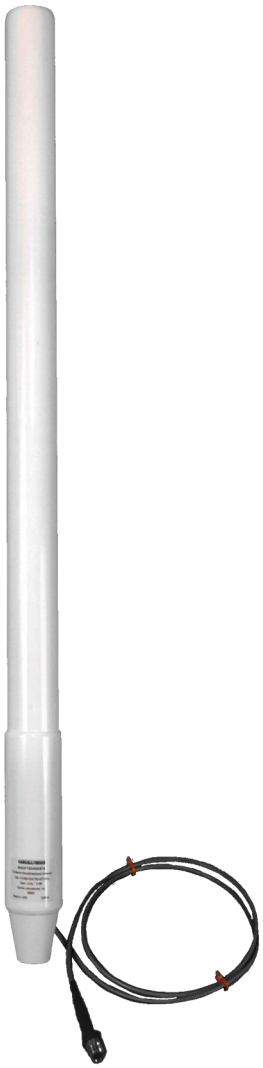
1Y42500

MADP150/450/816
136-174/380-520/762-960MHz
Maritime Tri-Band Antenna

The MADP150/450/818 is a full spectrum multiband VHF, UHF-H, 700/800/900MHz antenna designed for today's latest Land Mobile Radios (LMR) for maritime, military, commercial, public safety and law enforcement applications

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

Being ground independent, this antenna can be mounted on various platforms (metal or non-metal) with no degradation of performance.



ICARUS
Maritime Antenna Line

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	136-174MHz 380-520MHz 762-960MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	2.5:1 operational <3.0:1 Max
Gain	Unity to +2dBi
Pattern	Omni Directional Azimuth 360° Elevation 72°
Power	100 Watts
Connector	12" pigtail w/Type N Female

Mechanical Specifications

Design	Dipole
Height	41.25in. (1.05m)
Diameter	2¼" (57.15mm)
Radome	Fiberglass
Weight	5.5lbs. (2.5kg.)
Wind load	150MPH Max (241kph)
Mounting	1" 14 Thread—Extension sold separate
Color	White/Black/Green/Tan/Grey

**Specifications are subject to change without prior notice.

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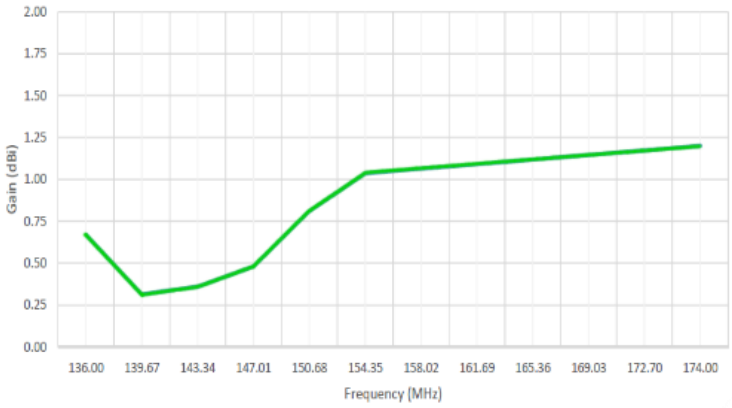
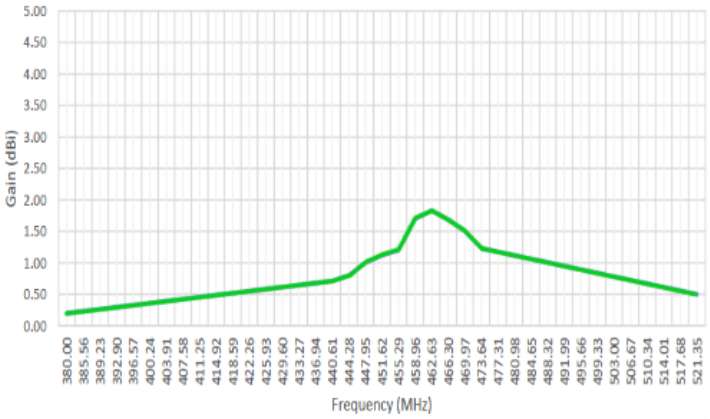
MADP150/450/816
136-174/380-520/762-960MHz
Maritime Tri-Band Antenna

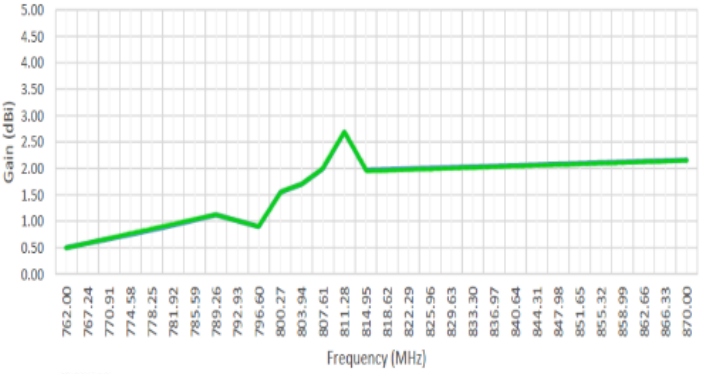
Gain Pattern
136-174MHz



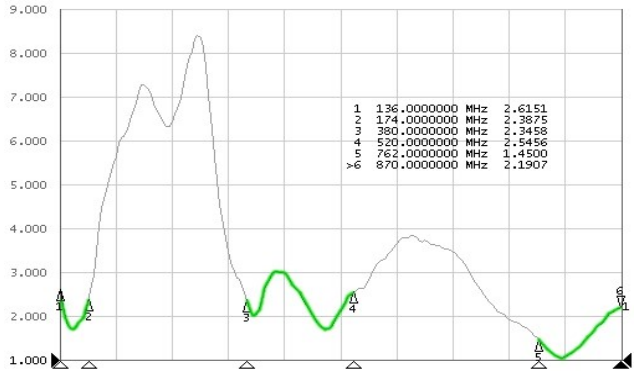
Gain Pattern
380-520MHz



Gain Pattern
762-870MHz



VSWR

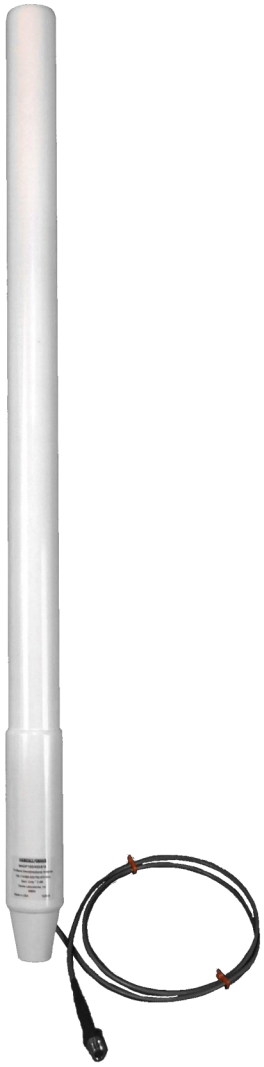


MADP136-174
136-174MHz
Maritime VHF Antenna

The MADP136-174 antenna was designed for today's latest broadband VHF communications platforms for maritime, military, commercial, public safety and law enforcement applications.

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

Being ground independent, this antenna can be mounted on various maritime platforms (metal or non-metal) with no degradation of performance.



ICARUS
Maritime Antenna Line

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	136-174MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	2:1 Typical (3.0:1 Max)
Gain	≥ 2dBi
Pattern	Omni Directional Azimuth 360° Elevation 72°
Power	50Watts
Connector	Type N Female

Mechanical Specifications

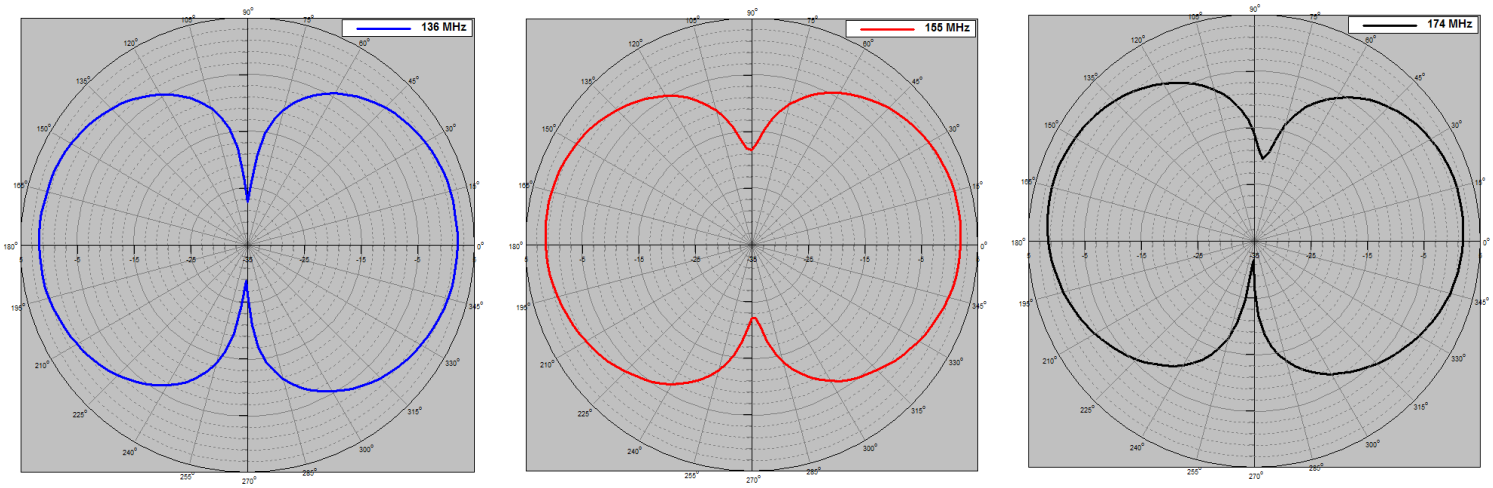
Design	Dipole
Height	42¼in. (1.02m) w/o extension
Diameter	2¼in. (57.15mm)
Radome	Fiberglass
Weight	5.5lbs. (205kg.)
Wind load	150MPH Max (241kph)
Mounting	1" 14 Thread
Color	White/Black/Green/Tan/Grey

MADP136-174

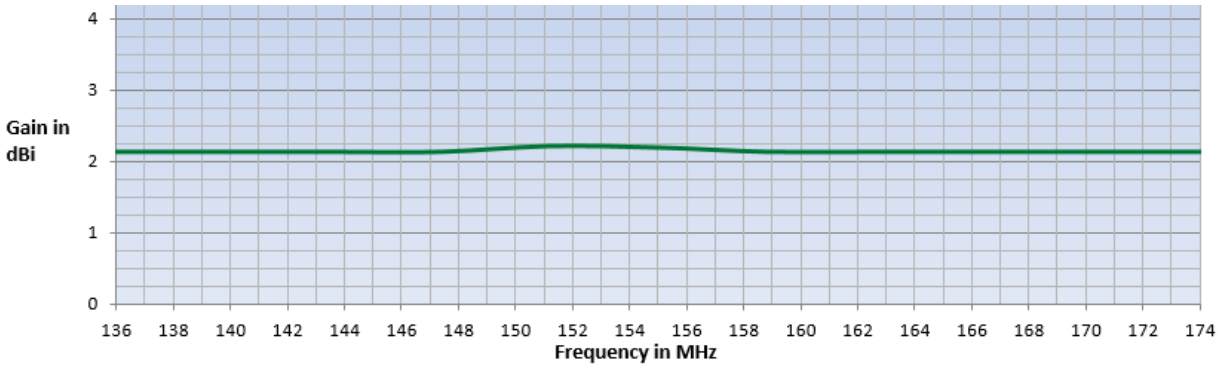
136-174MHz

Maritime VHF Antenna

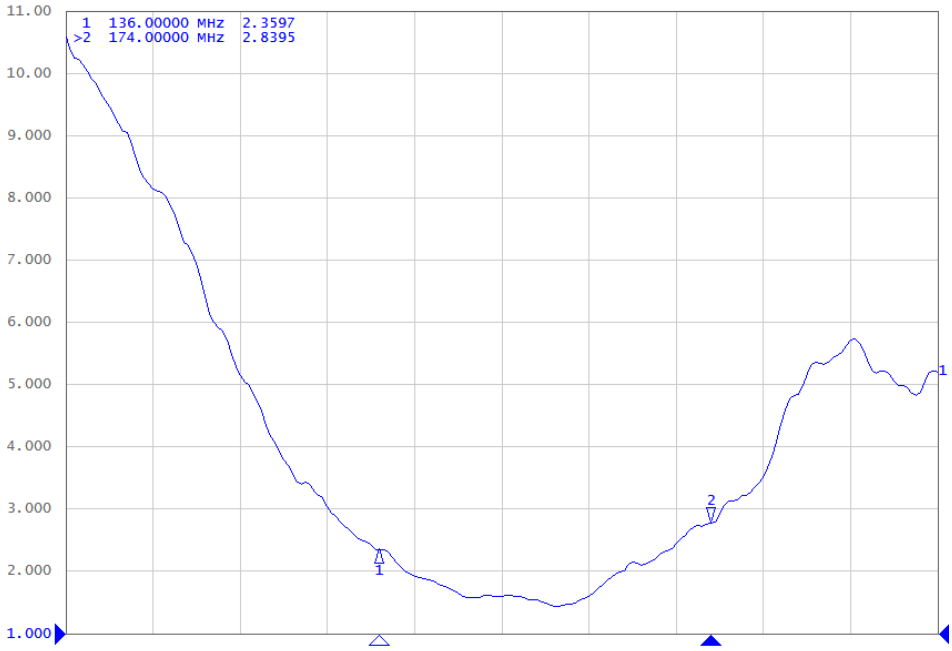
Patterns



Gain



VSWR



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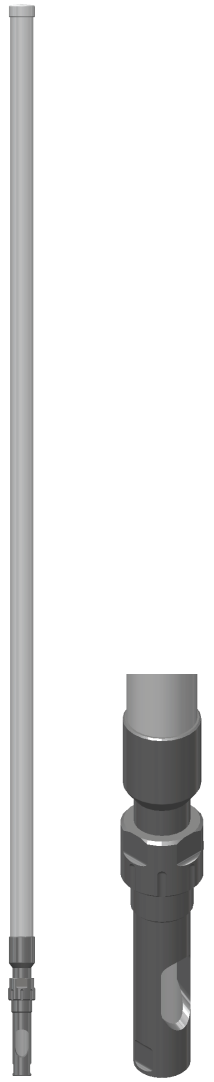
1Y42550

MADP156-162
156-162MHz
Maritime VHF Antenna

The MADP156-162 was designed for Maritime Automatic Identification Systems (AIS) and VHF communications applications.

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

Being ground independent, this antenna can be mounted on various maritime platforms (metal or non-metal) with no degradation of performance.



Pictured with extension

ICARUS
Maritime Antenna Line

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	156-162MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	1.5:1 Typical (2:1 Max)
Gain	2dBi
Pattern	Omni Directional Azimuth 360° Elevation 72°
Power	50Watts
Connector	Type N Female

Mechanical Specifications

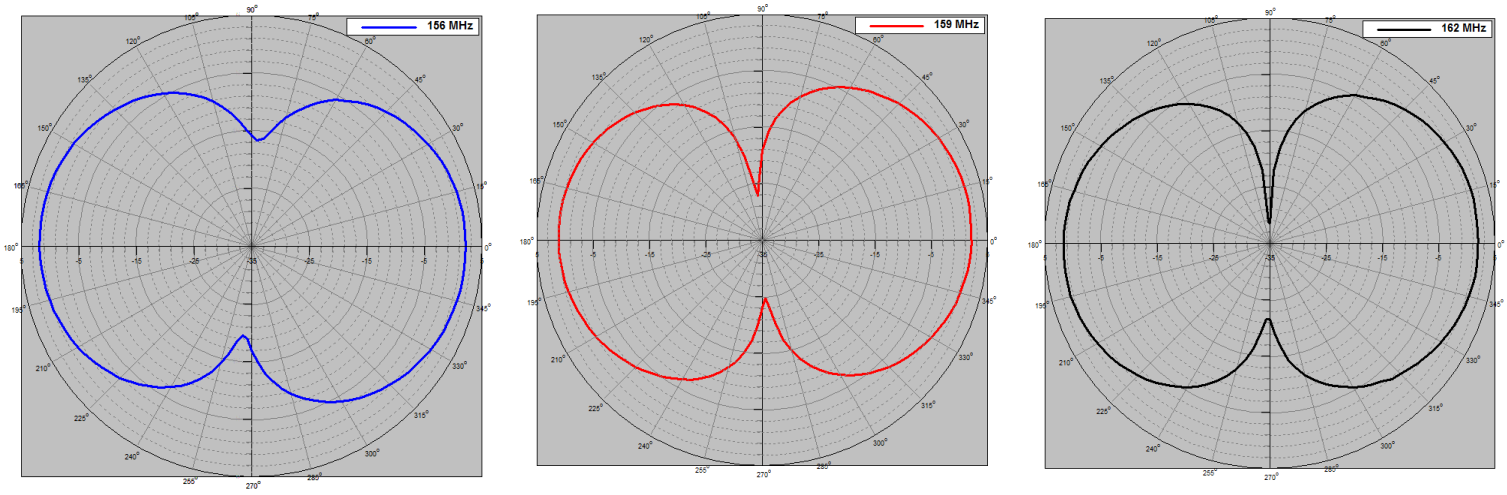
Height	67in. (1.7m) w/o extension
Diameter	1⅝in. (57.15mm)
Radome	Fiberglass
Weight	4.5lbs. (2.04kg.)
Wind load	150MPH Max (241kph)
Mounting	1” 14 Thread Extension
Color	White/Black/Green/Tan/Grey

MADP156-162

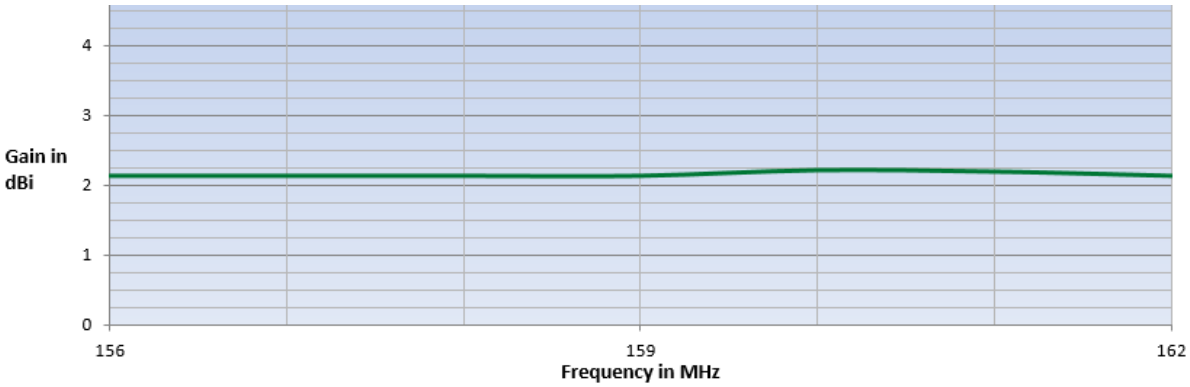
156-162MHz

Maritime VHF Antenna

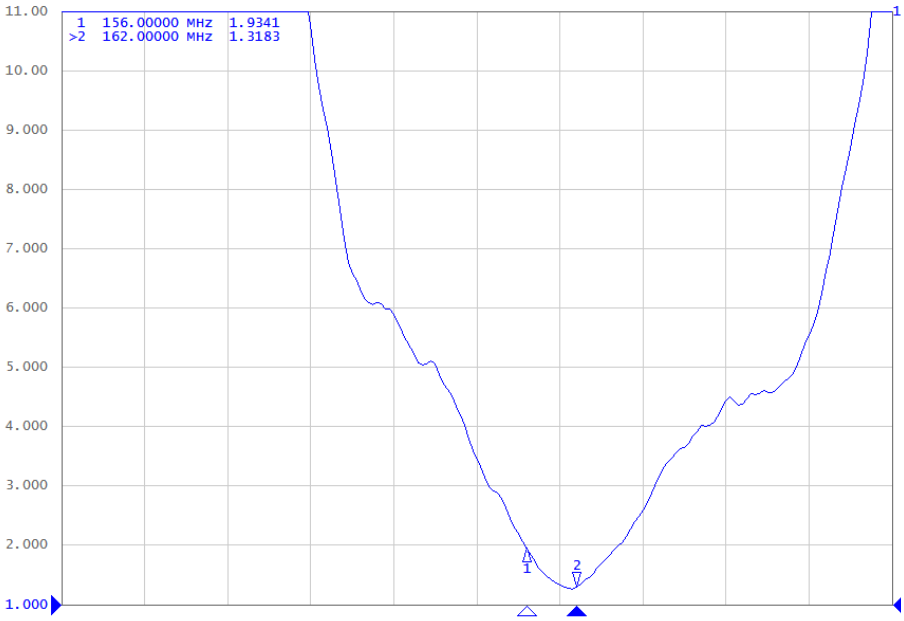
Patterns



Gain



VSWR



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1Y42300

MADP156-162AB
156-162MHz
Maritime VHF Antenna

The MADP156-162AB was designed for Maritime Automatic Identification Systems (AIS) and VHF communications applications.

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

Being ground independent, this antenna can be mounted on various maritime platforms (metal or non-metal) with no degradation of performance.

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	156-162MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	1.5:1 Typical (2:1 Max)
Gain	2dBi
Pattern	Omni Directional Azimuth 360° Elevation 72°
Power	50Watts
Connector	Type N Female

Mechanical Specifications

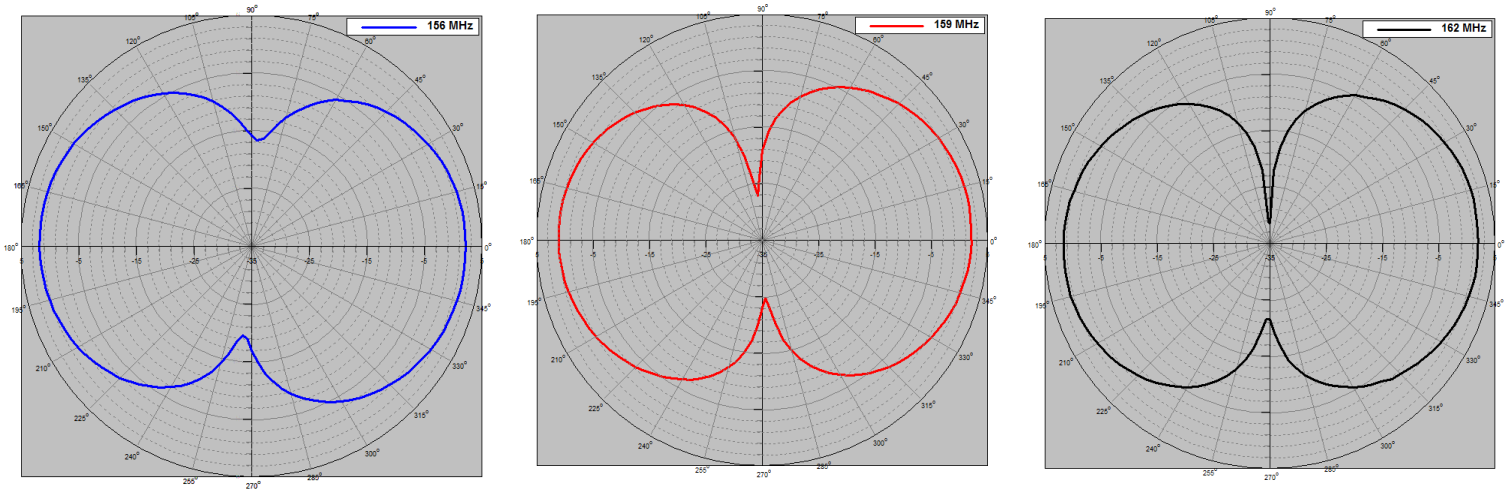
Height	67in. (1.7m) w/o flange
Diameter	1⅝in. (57.15mm)
Radome	Fiberglass
Weight	5.2 lbs. (2.36 kg.)
Wind load	150MPH Max (241kph)
Mounting	NATO Flange Base
Color	White/Black/Green/Tan/Grey

MADP156-162AB

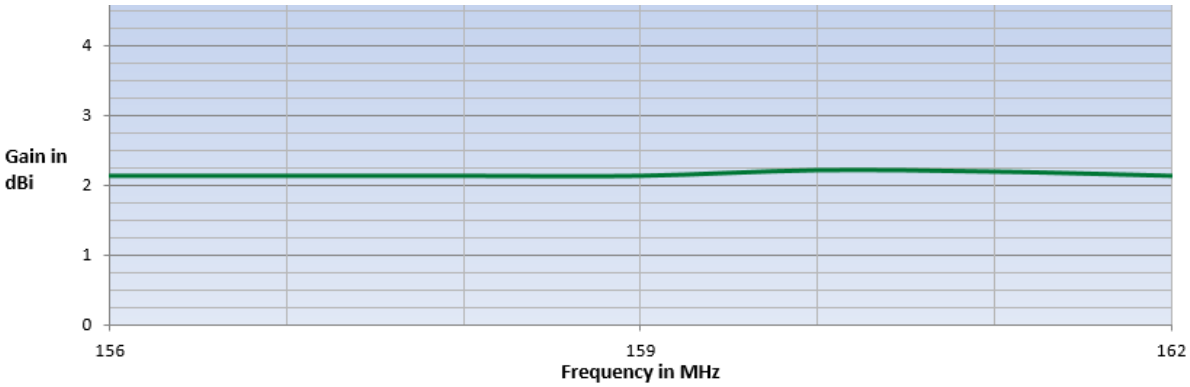
156-162MHz

Maritime VHF Antenna

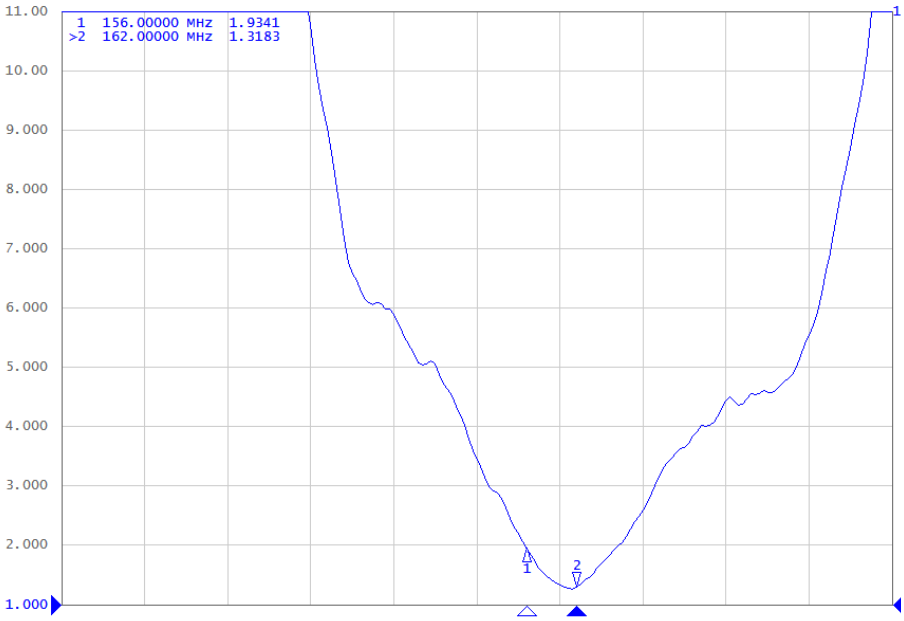
Patterns



Gain



VSWR



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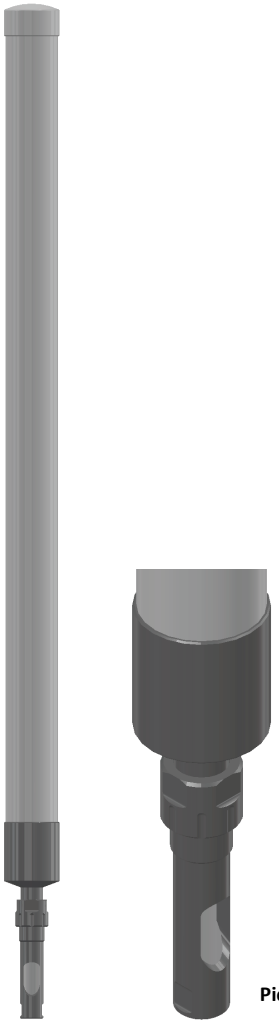
1Y42300A

MADP225X2
225-400MHz
Maritime UHF Antenna

The MADP225X2 antenna was designed for today's latest UHF communications platforms for maritime, military, commercial, public safety and law enforcement applications.

The antenna has a state-of-the-art radiating elements that provide maximum reliability and maximum performance. The antenna elements are sealed in a heavy duty fiberglass radome for mechanical stability and reliability in harsh environments.

Being ground independent, this antenna can be mounted on various maritime platforms (metal or non-metal) with no degradation of performance.



Pictured with extension

ICARUS
Maritime Antenna Line

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	225-400MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	2.5:1 Typical (3.0:1 Max)
Gain	≥3 dBi Typical (2.5 dBi Band Edges)
Pattern	Omni Directional Azimuth 360° Elevation 52°
Power	50Watts
Connector	Type N Female

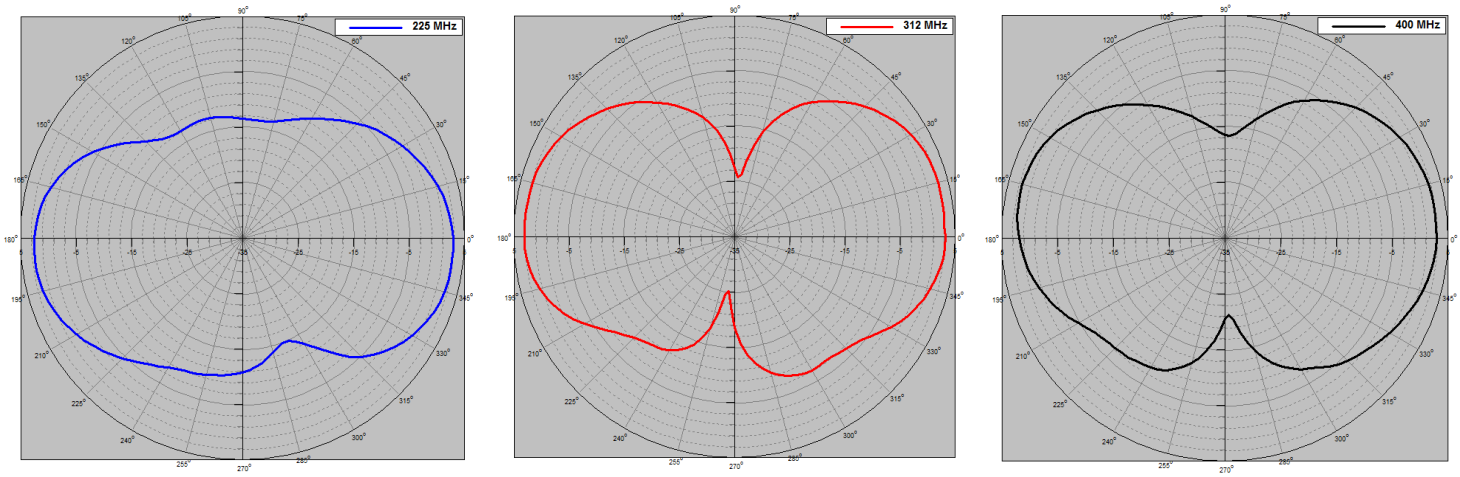
Mechanical Specifications

Design	Dipole
Height	51 in. (1.3m) w/o extension
Diameter	3in.
Radome	Fiberglass
Weight	6.25 lbs. (2.84 kg.)
Wind load	150MPH Max (241kph)
Mounting	1" 14 Thread extension
Color	White/Black/Green/Tan/Grey

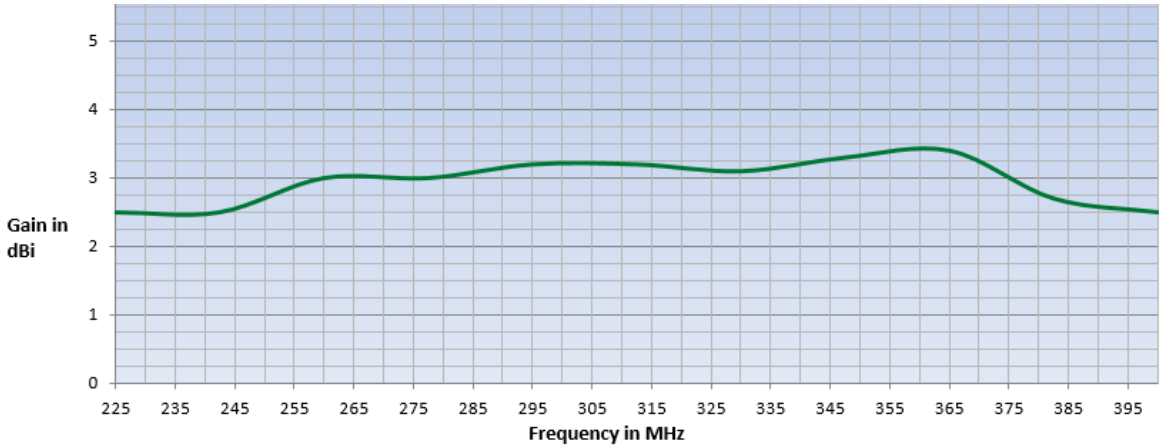
HASCALL-DENKE

MADP225X2
225-400MHz
Maritime UHF Antenna

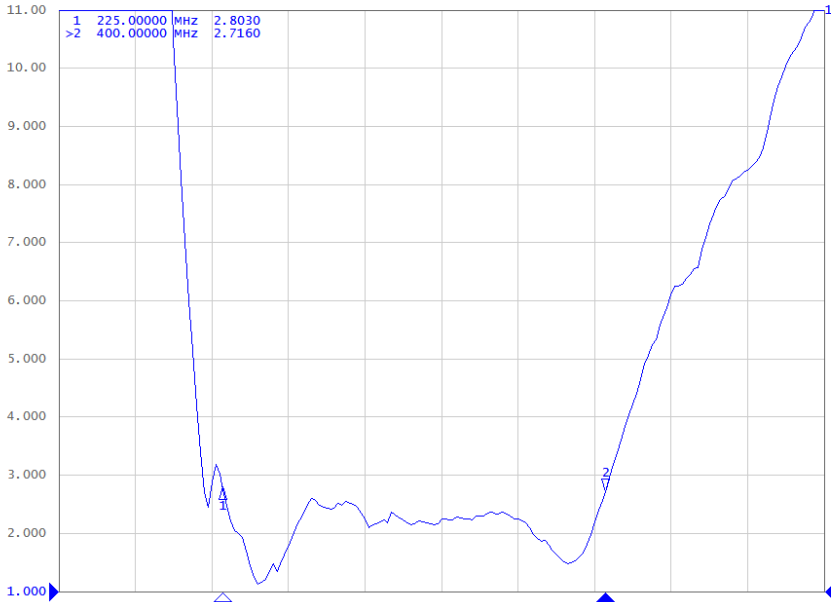
Patterns



Gain



VSWR



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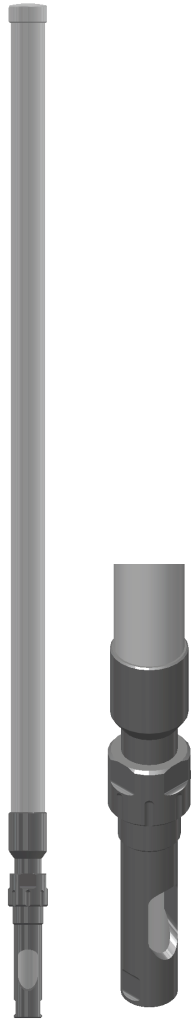
1Y42350

MADP380-490
380-490MHz
Maritime UHF Antenna

The MADP380-490 broadband antenna was designed for today's latest communications platforms for maritime, military, commercial, public safety and law enforcement applications.

The antenna has a state-of-the-art radiating element that provides maximum reliability and maximum performance. The antenna element is sealed in a heavy duty fiberglass radome for mechanical stability and reliability in harsh environments.

Being ground independent, this antenna can be mounted on various maritime platforms (metal or non-metal) with no degradation of performance.



Pictured with extension

ICARUS
Maritime Antenna Line

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	380-490MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	2:1 Typical (2.5:1 Max)
Gain	≥ 4 dBi
Pattern	Omni Directional Azimuth 360° Elevation 46°
Power	50Watts
Connector	Type N Female

Mechanical Specifications

Design	Dipole
Height	40¼in. (1.02m) w/o extension
Diameter	1⅝in.
Radome	Fiberglass
Weight	2.5lbs. (1.3kg.)
Wind load	150MPH Max (241kph)
Mounting	1" 14 Thread extension
Color	White/Black/Green/Tan/Grey

**Specifications are subject to change without prior notice.

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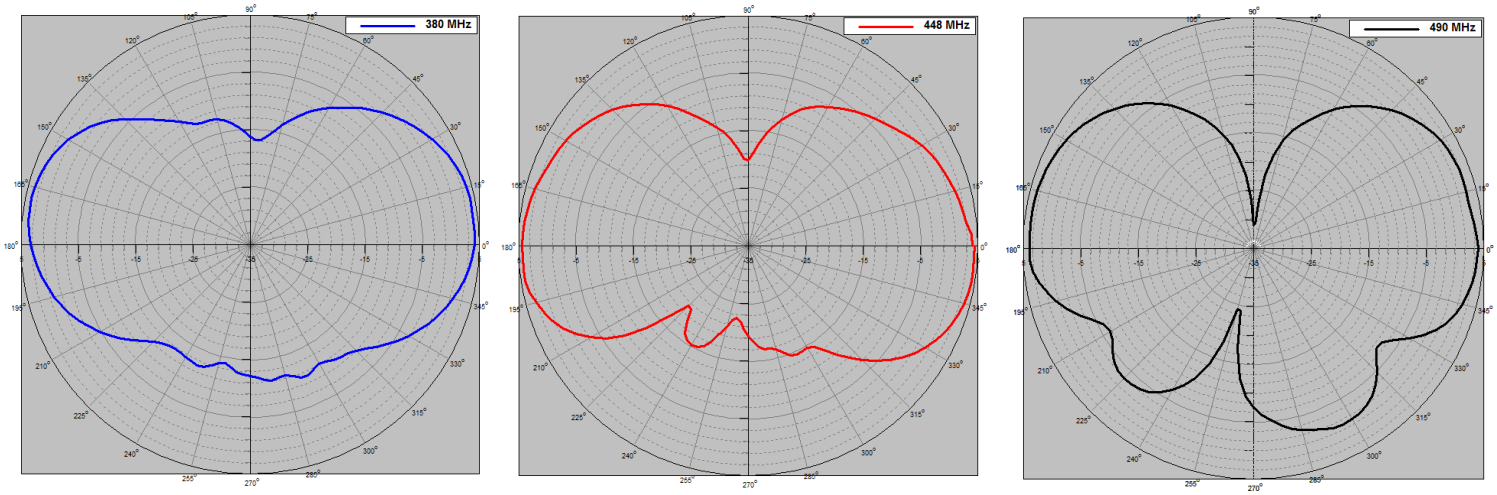
MADP380-490

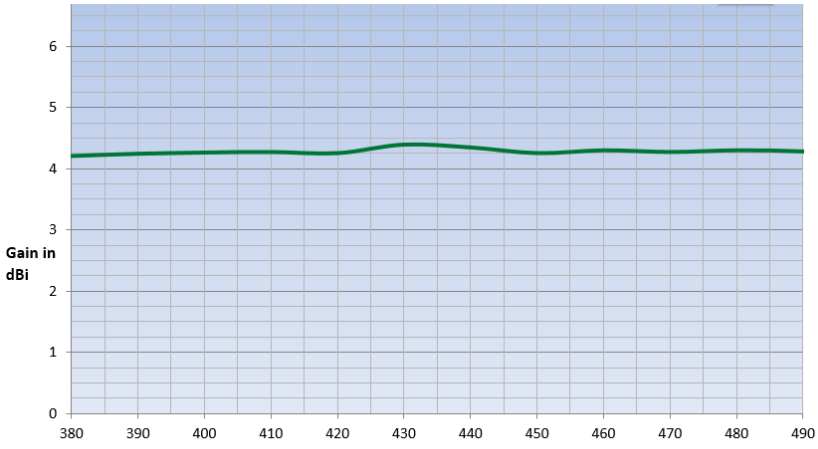
380-490MHz

Maritime UHF Antenna

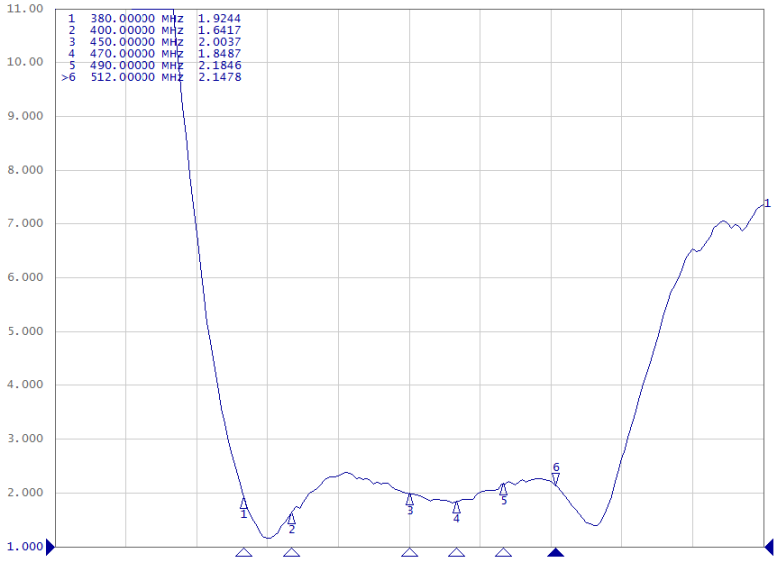
Patterns



Gain



VSWR



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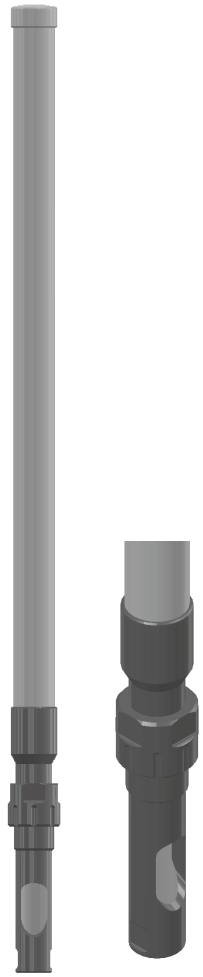
1Y42450

MADP762-870
762-870MHz
Maritime LTE Antenna

The MADP762-870 antenna was designed for today's latest Land Mobile Radio (LMR) and Long Term Evolution (LTE) communications platforms for maritime, military, commercial, public safety and law enforcement applications.

The antenna has a state-of-the-art radiating element that provides maximum reliability and maximum performance. The antenna element is sealed in a heavy duty fiberglass radome for mechanical stability and reliability in harsh environments.

Being ground independent, this antenna can be mounted on various maritime platforms (metal or non-metal) with no degradation of performance.



Pictured with extension

ICARUS
Maritime Antenna Line

Features

- Ground independent
- Single Input
- Built to MIL-STD-810

Electrical Specifications

Frequency	762-870MHz
Polarization	Vertical
Impedance	50Ω Nominal
VSWR	≥ 2.0:1
Gain	4.5 dBi ± .5
Pattern	Omni Directional Azimuth 360° Elevation 46°
Power	50Watts
Connector	Type N Female

Mechanical Specifications

Design	Dipole
Height	27¼in. (.69m) w/o extension
Diameter	1½in. (38.1mm)
Radome	Fiberglass
Weight	2.5lbs. (1.13kg.)
Wind load	150MPH Max (241kph)
Mounting	1" 14 Thread—Extension sold separate
Color	White/Black/Green/Tan/Grey

**Specifications are subject to change without prior notice.

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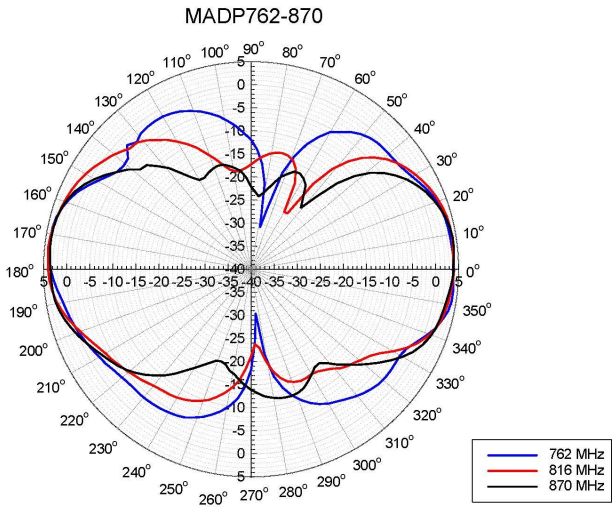
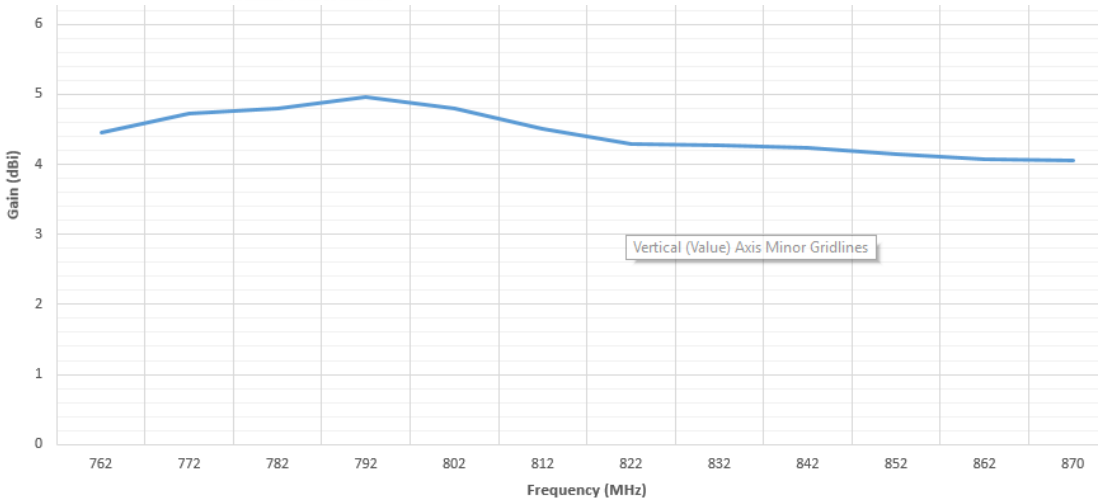
MADP762-870
762-870MHz
Maritime LTE Antenna

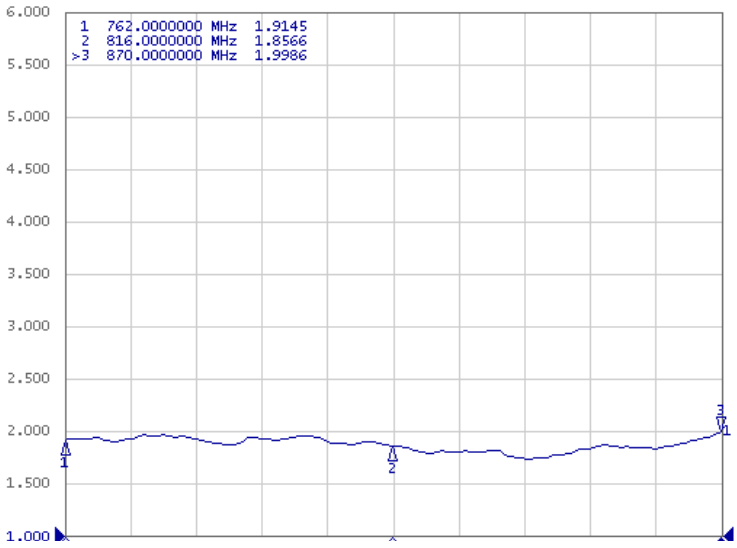
Pattern



Gain



VSWR



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All Hascall-Denke Antennas are made entirely in the United States to the highest standards of manufacturing. We have constantly exceeded the expectations of those we serve. And we believe our responsiveness to clients is unparalleled. Our commitment to quality and service brings our clients back time and time again for new Hascall-Denke solutions. Let us do the same for you.

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