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High Frequency Antennas

At Valcom, our HF antenna group delivers high-performance solutions for 2 MHz to 30 MHz communications across military, maritime, tactical, and commercial environments. Our lineup includes rugged shipboard aluminum whips, broadband tactical whips, twin-whip systems, and fiberglass vertical whips—each engineered for reliable, omnidirectional coverage and broadband HF performance.

We also support portable and land-based HF operations, along with specialized solutions such as NVIS antennas that enable effective short-range HF communications in challenging or restricted terrain. Every model is built to meet strict reliability, power-handling, and environmental requirements.

Overall, our HF antenna range reflects Valcom's commitment to delivering versatile, rugged, and mission-ready HF solutions that adapt to the evolving needs of modern communication systems.



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Who We Are

Founded in 1955 in Guelph, Ontario, Canada, Valcom Manufacturing is a global leader in the design and manufacture of high-performance antenna systems. We serve military, defense, aviation, and industrial clients worldwide with solutions built to perform in the most demanding environments.

Valcom specializes in antennas spanning MF, AM broadcast, HF, VHF, UHF, and SHF frequencies, along with complementary technologies such as power conditioners, remote data collection platforms, and lightweight communication infrastructure. Our capabilities also include repair and overhaul services, calibration, and built-to-print electronic and electro-mechanical manufacturing.

With decades of innovation and a commitment to reliability, Valcom continues to pioneer advanced communication solutions for mission-critical applications across the global defense and industrial landscape.



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VBBA-NVIS

35-Ft Broadband Antenna VBBA 2-30

A rugged, self-supporting 35-foot broadband HF whip antenna designed for high-power tactical and naval applications, including Electronic Countermeasure (ECM) systems.



BROADBAND COVERAGE

Operates from 2-30 MHz
with no tuner required



HIGH POWER HANDLING

Supports up to 3000 W average
RF power



LIGHTNING PROTECTION

Integrated DC static short
for safety and durability



SHIPBOARD ANTENNAS

Built to meet Navy requirements

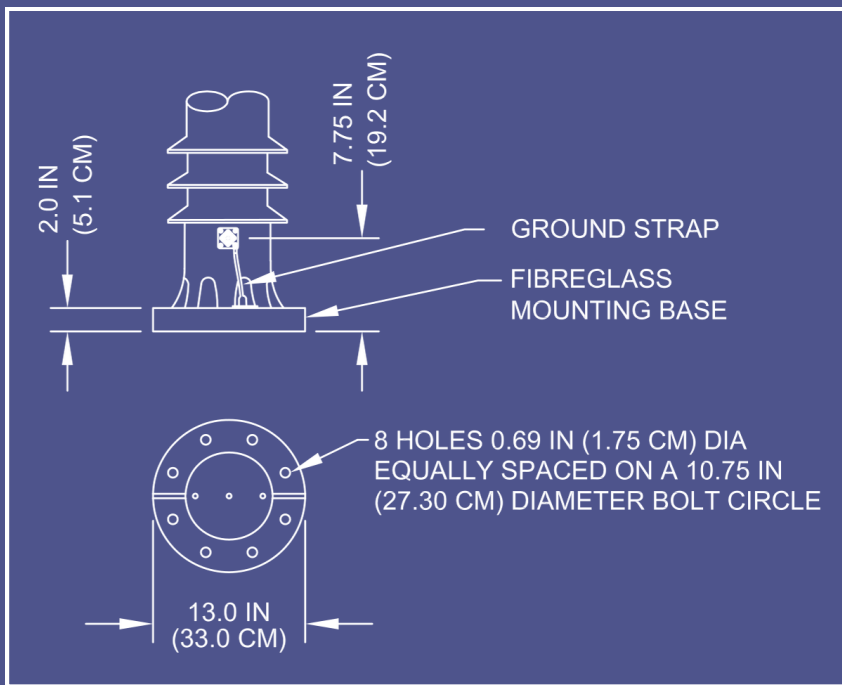
U.S. Patents: 5357261, 7242367, 7555827



VBBA2-30

35-ft Broadband HF Tactical
Whip Antenna

PN: VD-97-00061-1

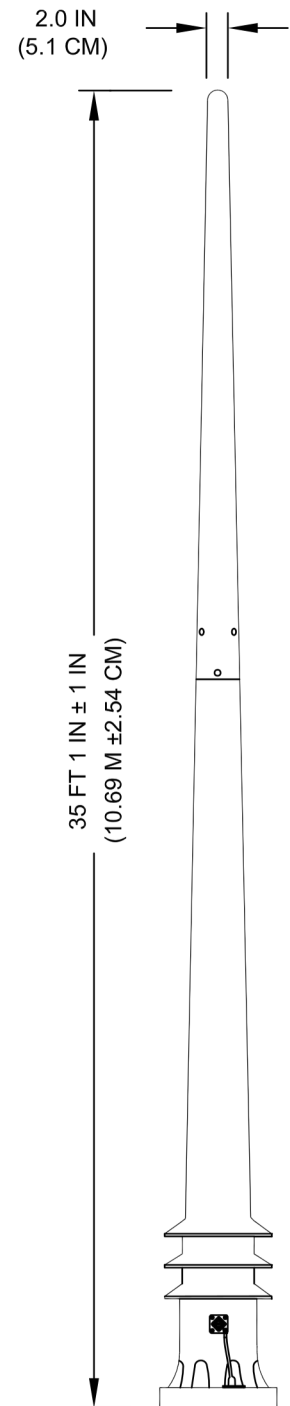


KEY CHARACTERISTICS

VBBA2-30

Frequency Range (no tuner)	2 – 30 MHz
Power	3 KW
Height	35ft
Weight	250 lbs
VSWR	<2.0:1
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Epoxy Fiberglass

Operating across the full 2–30 MHz HF band, this antenna delivers consistent performance with a nominal 50-ohm input impedance and VSWR of 2:1 or better, without the need for an external tuner.



IDEAL FOR:

- Electronic Countermeasure (ECM) Systems
- Military Communications
- Naval & Shipboard Applications
- Harsh Weather Environments

18ft Aluminum Whip Antenna

Aluminum whip antennas designed to meet US Navy standards, compliant with MIL-S-901 for shock and MIL-STD-167 for vibration, providing vertically polarized, omni-directional radiation.



WIDEBAND CAPABLE

Vertically polarized antennas easily adapted for wideband capabilities



DURABILITY AND RELIABILITY

Designed for minimum maintenance and high reliability



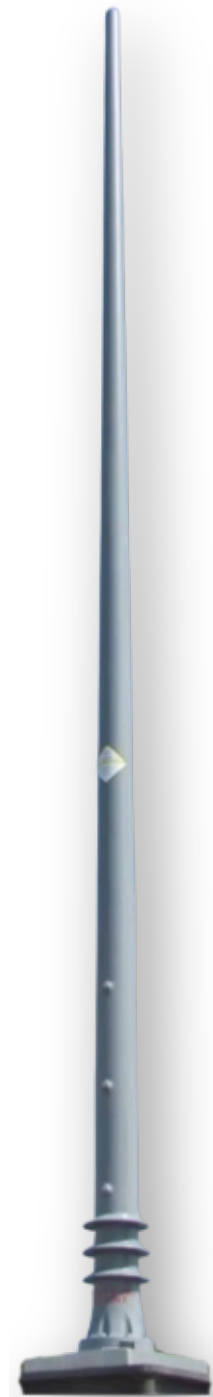
WEATHERPROOF CONSTRUCTION

Tapered aluminum radiating element and fiberglass insulator



SHIPBOARD ANTENNAS

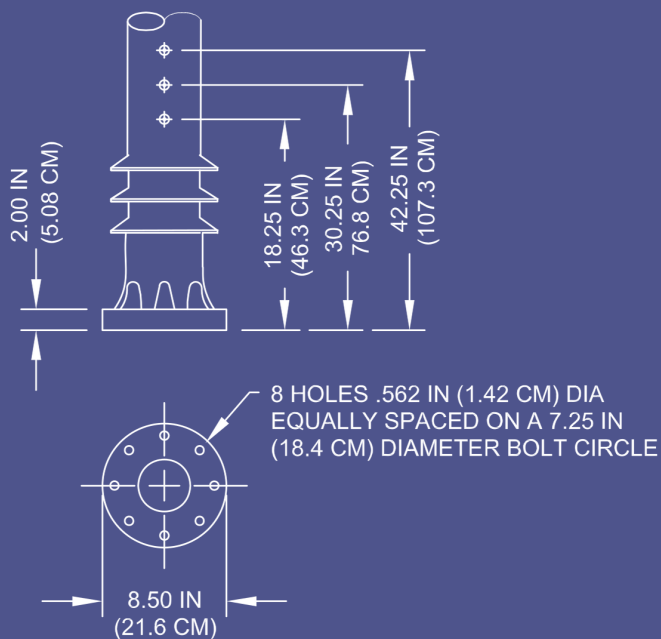
Built to meet US Navy requirements



AS-3770B/U

18ft Aluminum Whip Antenna

NSN 5985-01-383-8506

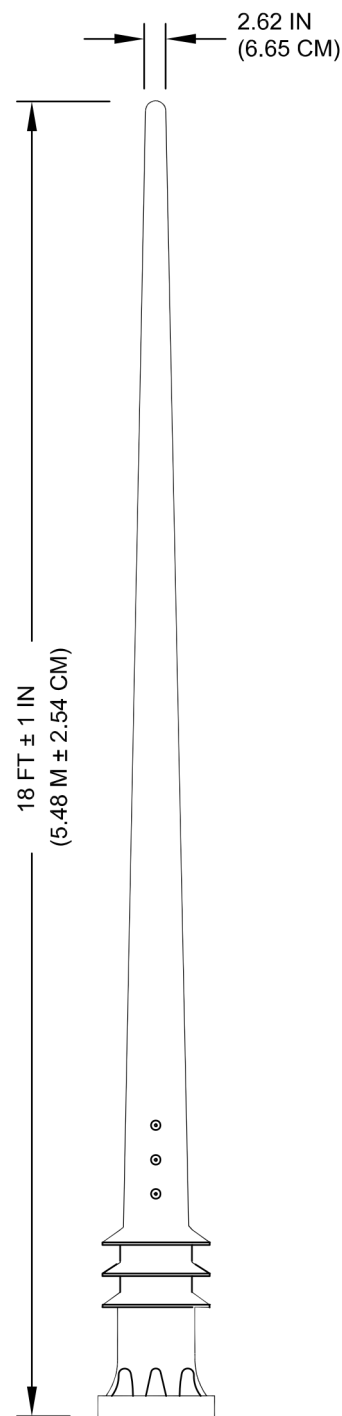


KEY CHARACTERISTICS

AS-3770B/U

Frequency Range (with tuner)	10 - 30 MHz
Power	5 KW
Height	18ft
Weight	85 lbs
VSWR	<3:1
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Epoxy Fiberglass

Valcom's aluminum whip antennas can be used in a twin-whip and tuner configuration to achieve wideband frequencies. This setup is ideal for broadband applications and ensures strong performance in various operational environments.



IDEAL FOR:

- Shipboard HF communications
- Broadband 10-30 MHz transmission and reception
- Twin whip systems with tuner for omnidirectional coverage

VBBA-NVIS Broadband HF NVIS Antenna

Aluminum whip antennas designed to meet US Navy standards, compliant with MIL-S-901 for shock and MIL-STD-167 for vibration, providing vertically polarized, omni-directional radiation.



WIDEBAND CAPABLE

Vertically polarized antennas easily adapted for wideband capabilities



DURABILITY AND RELIABILITY

Designed for minimum maintenance and high reliability



WEATHERPROOF CONSTRUCTION

Tapered aluminum radiating element and fiberglass insulator



SHIPBOARD ANTENNAS

Built to meet US Navy requirements

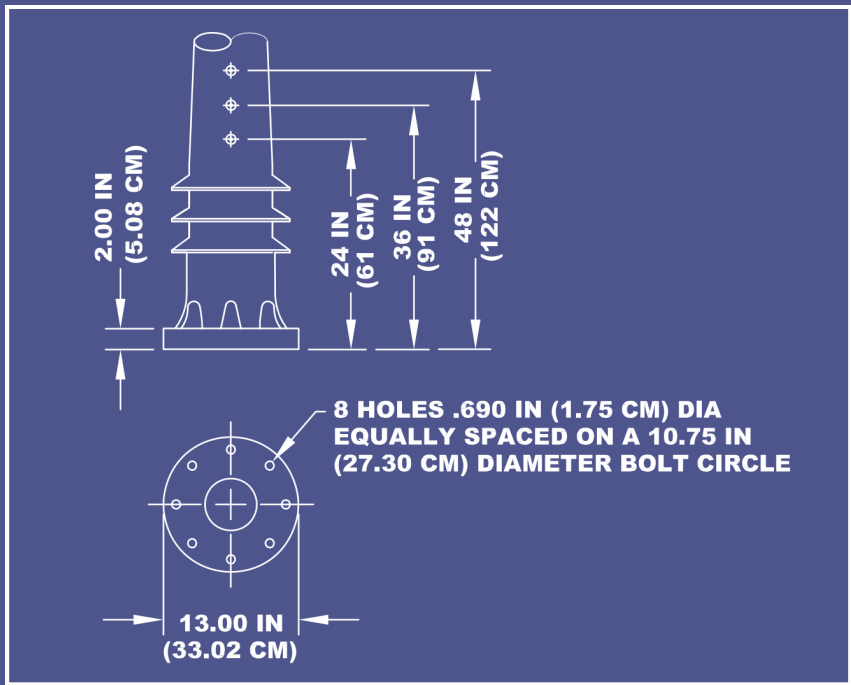
US Patent: 5357261



AS-3771B/U

14-Ft Aluminum Whip
Antenna

NSN: 5985-01-383-8572

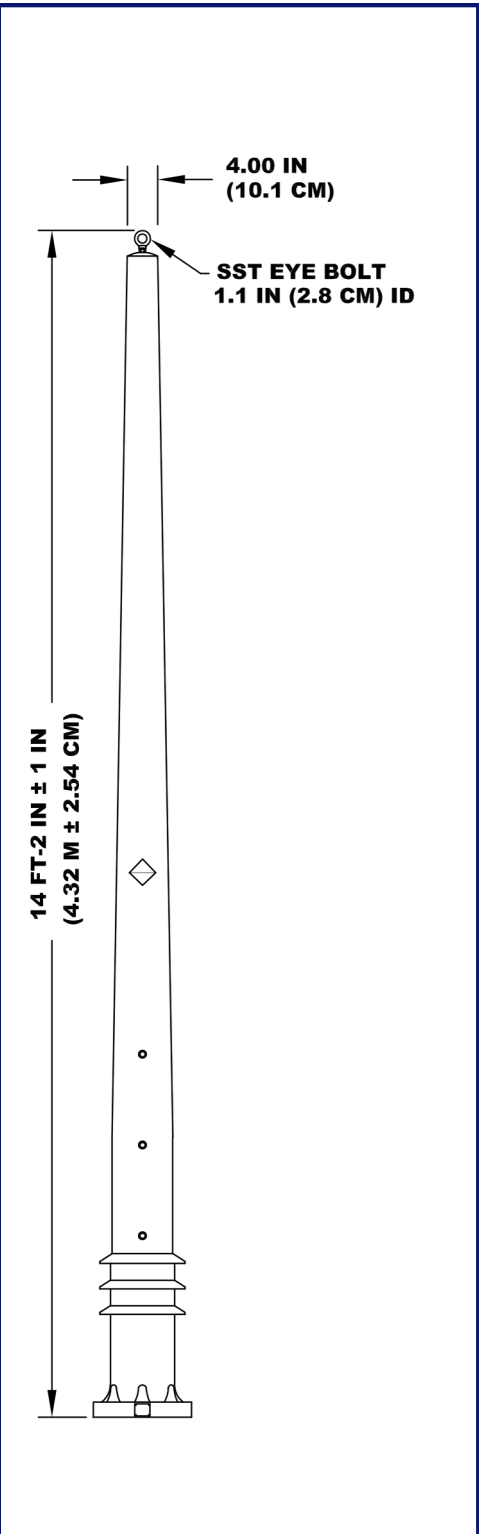


KEY CHARACTERISTICS

AS-3771B/U

Frequency Range (with tuner)	4 - 30 MHz
Power	5 KW
Height	14ft
Weight	160 lbs
VSWR	<3:1
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Epoxy Fiberglass

Valcom's aluminum whip antennas can be used in a twin-whip and tuner configuration to achieve wideband frequencies. This setup is ideal for broadband applications and ensures strong performance in various operational environments.



IDEAL FOR:

- Shipboard HF communications from 4 to 30 MHz
- Broadband reception from VLF to 30 MHz
- Tuned transmission with HF tuner systems

18ft Aluminum Whip Antenna

Aluminum whip antennas designed to meet US Navy standards, compliant with MIL-S-901 for shock and MIL-STD-167 for vibration, providing vertically polarized, omni-directional radiation.



WIDEBAND CAPABLE

Vertically polarized antennas easily adapted for wideband capabilities



DURABILITY AND RELIABILITY

Designed for minimum maintenance and high reliability



WEATHERPROOF CONSTRUCTION

Tapered aluminum radiating element and fiberglass insulator



SHIPBOARD ANTENNAS

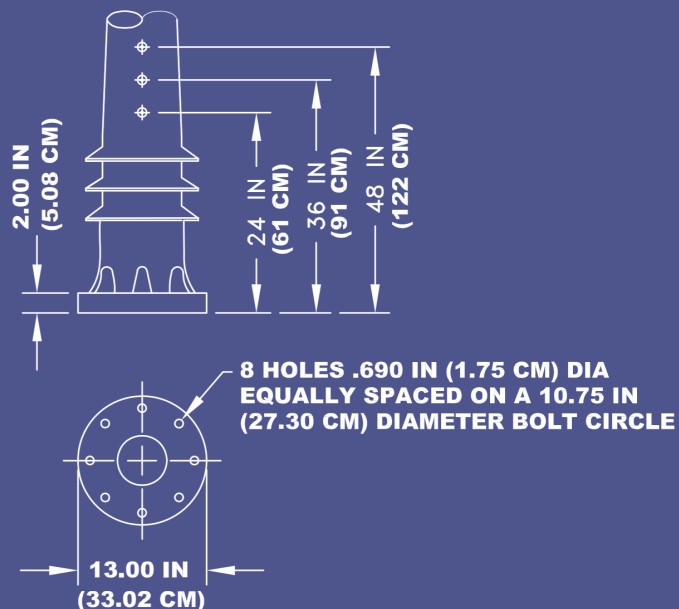
Built to meet US Navy requirements



AS-3773B/U

18ft Aluminum Whip Antenna

NSN: 5985-01-383-8647

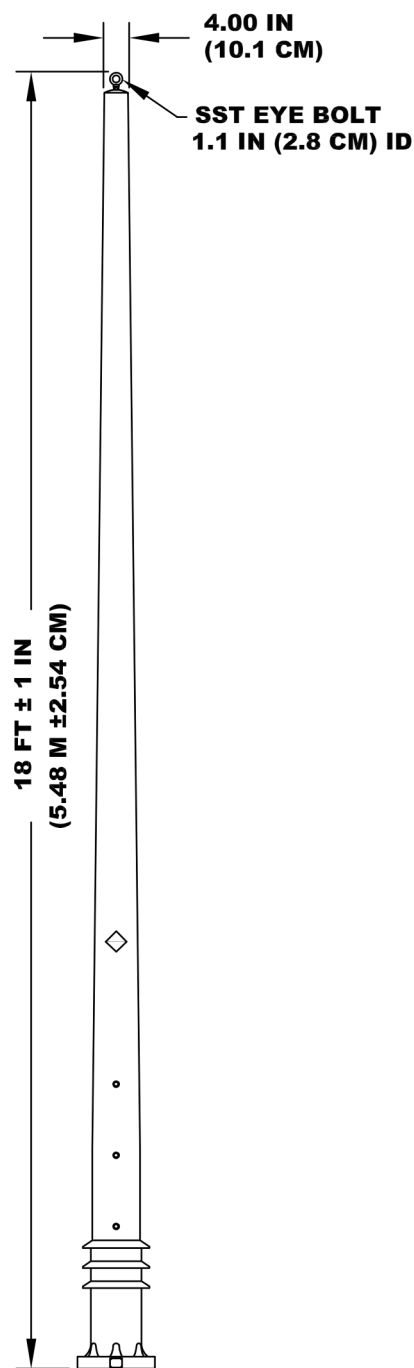


KEY CHARACTERISTICS

AS-3773B/U

Frequency Range (with tuner)	10 - 30 MHz
Power	5 KW
Height	18ft
Weight	145 lbs
VSWR	<3:1
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Epoxy Fiberglass

Valcom's aluminum whip antennas can be used in a twin-whip and tuner configuration to achieve wideband frequencies. This setup is ideal for broadband applications and ensures strong performance in various operational environments.



IDEAL FOR:

- Shipboard HF communication (10-30 MHz)
- Twin whip broadband setups with tuner
- General-purpose receive/transmit applications

35-Ft Whip Antenna V-132, V-132 FT

A rugged, self-supporting 35-foot broadband HF whip antenna designed for high-power tactical and naval applications, including Electronic Countermeasure (ECM) systems.



BROADBAND COVERAGE

Operates from 1.6 MHz – 30 MHz with tuner



HIGH POWER HANDLING

Supports up to 5000 W average RF power



WEATHERPROOF CONSTRUCTION

Fiberglass construction, epoxy polyamide paint



SHIPBOARD ANTENNAS

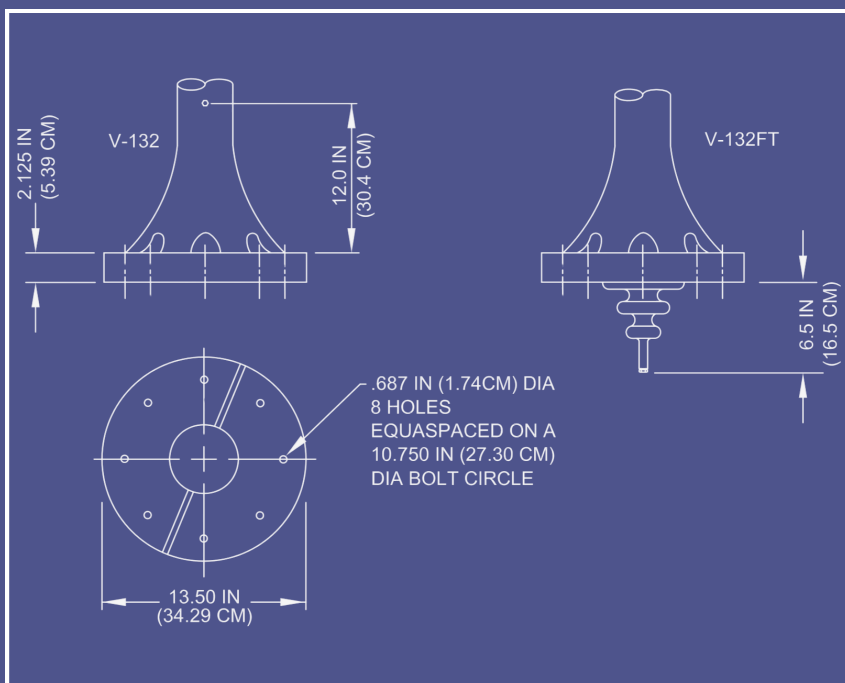
Intended for shipboard and marine environments



V-132

35-Ft Whip Antenna
V-132, V-132 FT

PN: V-132 or V-132FT



KEY CHARACTERISTICS

V-132

Frequency Range (with tuner) 1.6 MHz to 30 MHz

Power 5 KW

Height 35ft

Weight 146 lbs

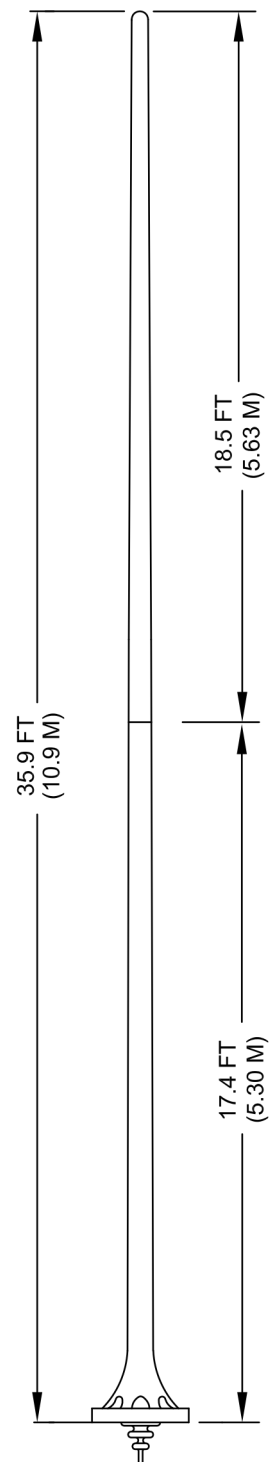
VSWR Determined by tuner

Polarization Vertical

Azimuth Coverage Omnidirectional

Integral Base / Insulator Epoxy Fiberglass

The V-132 is a rugged, vertically polarized whip antenna designed for wideband transmit and receive in military, commercial, and marine applications.



IDEAL FOR:

- Shipboard and marine communications
- Military and defense communication systems
- Harsh environmental conditions

Near Vertical Incident Skywave (NVIS) Antenna

The Valcom VD-97-00592-1 is a lightweight, quick-deploy HF antenna designed for tactical NVIS communications, providing reliable 2–30 MHz broadband coverage in rugged field conditions.



BROADBAND COVERAGE

Operates from 2 – 30 MHz wideband HF with no tuner required



POWER HANDLING

Supports up to 400 W average RF power



WEATHERPROOF CONSTRUCTION

Rugged field-proven design



VEHICULAR APPLICATIONS

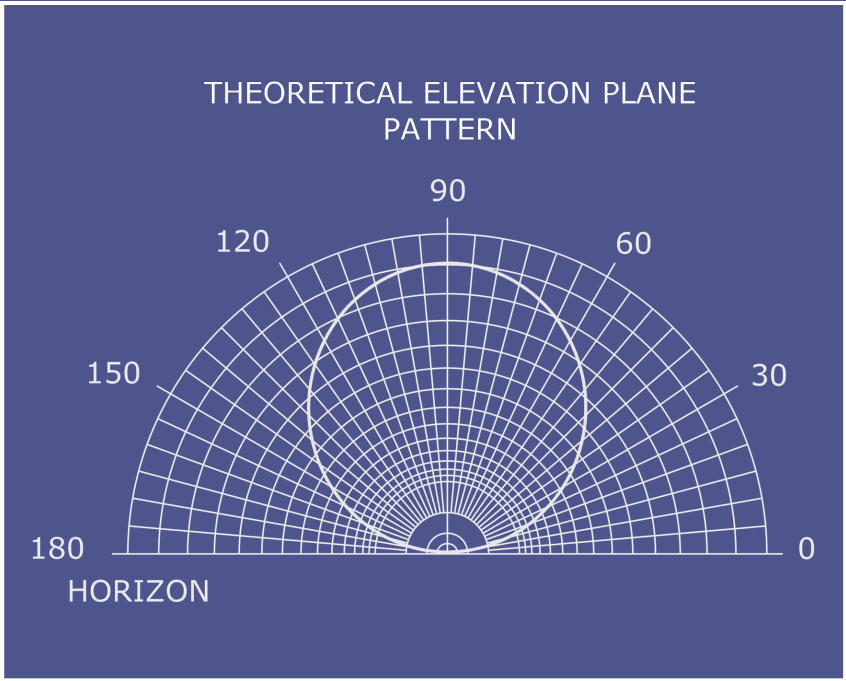
Vehicular or manpack usage and compact stowage in a canvas bag make it potentially viable for mobile and naval deployments



VD-97-00592-1

Near Vertical Incident
Skywave (NVIS) Antenna

NSN: 5985-00-106-6130



KEY CHARACTERISTICS	VD-97-00592-1
Frequency Range (no tuner)	2 to 30 MHz
Power	0.4 KW
Height	15 ft
Weight	15 lbs
VSWR	Not specified
Polarization	Vertical/Horizontal
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Aluminum

NVIS antennas radiate HF signals nearly vertically, reflecting off the ionosphere for short-range, beyond-line-of-sight communication—ideal for mountainous or obstructed terrain.



- IDEAL FOR:**
- Tactical military communications
 - Rapid deployment and teardown scenarios
 - Mountainous or obstructed terrain

HF Twin 35-Foot Whip Antenna System

The OE-415A(V)1/SRC is a twin 35 ft HF whip antenna system with 4–12 MHz broadband coverage, built for shipboard use. It offers 10 kW power handling, high reliability, and low maintenance in harsh conditions.



BROADBAND COVERAGE

Operates from 4 MHz to 12 MHz with no tuner required



HIGH POWER HANDLING

Handles up to 10 KW average power for robust, high-performance HF transmission



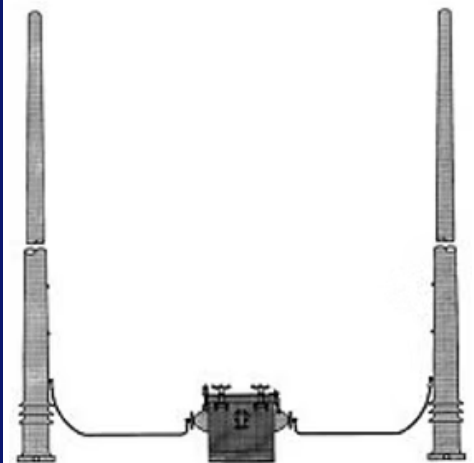
RECEIVE AND TRANSMIT

Designed for full TX/RX functionality in shipboard HF systems



SHIPBOARD ANTENNAS

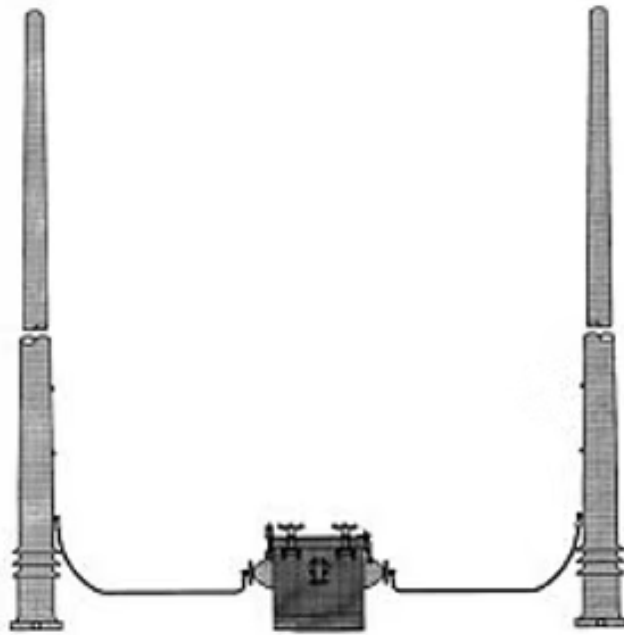
Specifically designed for CG and DDG class Navy vessels



OE-415A(V)1/SRC

HF Twin 35-Foot Whip
Antenna System

NSN: 5985-01-383-8447

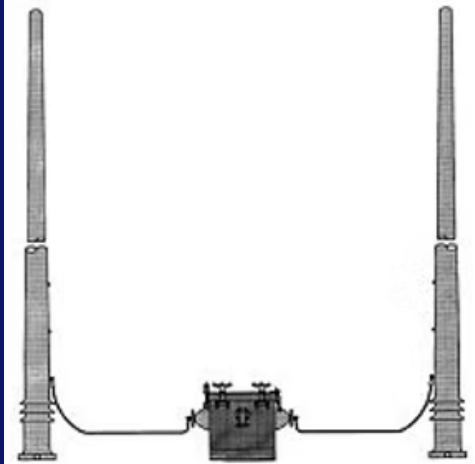


KEY CHARACTERISTICS

OE-415A(V)1/SRC

Frequency Range (no tuner)	4 MHz – 12 MHz
Power	10 KW
Height	35 ft (±1 in)
Weight	CG Class: 140 lbs DDG Class: 80 lbs
VSWR	≤ 3:1
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Epoxy Fiberglass

This twin-whip antenna system delivers vertically polarized, omnidirectional HF performance for naval platforms. With MIL-qualified durability and a built-in impedance matching network, it's ideal for CG and DDG class vessels requiring broadband transmit/receive capability.



IDEAL FOR:

- CG and DDG class U.S. Navy vessels
- High-power (10 kW) HF transmission
- Shipboard installations with standard base/matching network mounts

HF Twin 14-Foot Whip Antenna System

Valcom's HF Twin 14ft Whip Antenna System (OE-416A/SRC) offers reliable, weatherproof broadband coverage from 4-30 MHz, designed for shipboard use. It handles high power with minimal maintenance, ensuring optimal performance in tough conditions.



BROADBAND COVERAGE

Operates from 4 MHz to 30 MHz with no tuner required



DURABILITY AND RELIABILITY

It meets MIL-A-29520(EC) standards for high reliability, with weatherproof construction and minimal maintenance



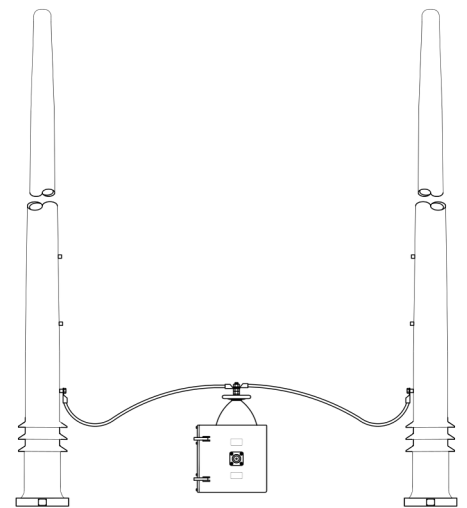
WEATHERPROOF CONSTRUCTION

The antenna system is weatherproof and comes with a static discharge resistor for lightning protection



SHIPBOARD ANTENNAS

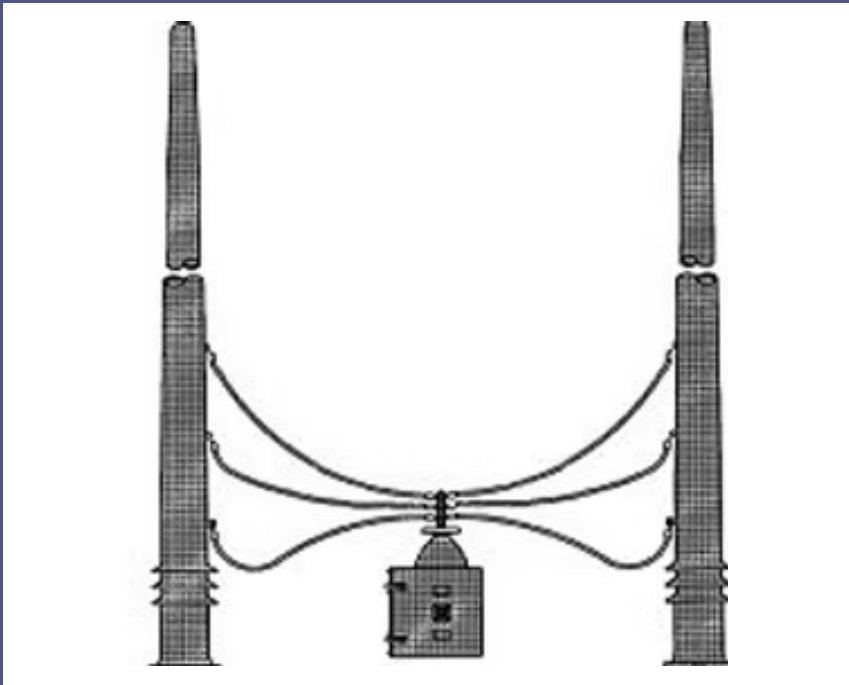
This antenna is designed for shipboard applications



OE-416A/SRC

HF Twin 14-Foot Whip
Antenna System

NSN: 5985-01-379-7275

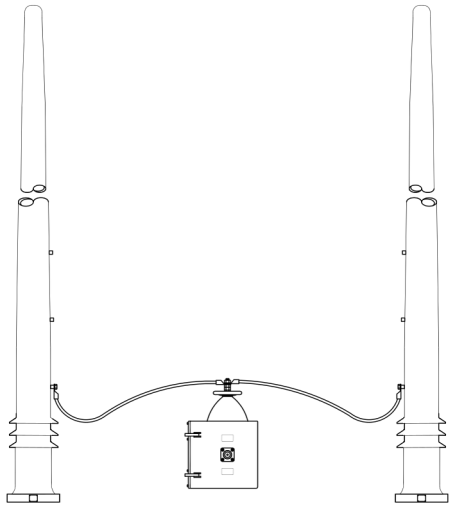


KEY CHARACTERISTICS

OE-416A/SRC

Frequency Range (no tuner)	4 MHz – 30 MHz
Power	10 KW
Height	14 ft per antenna
Weight	125 lbs per antenna
VSWR	$\leq 3:1$
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Epoxy Fiberglass

The OE-416A/SRC is a twin-whip antenna for high-frequency shipboard communication, featuring durable fiberglass construction and strong resistance to environmental factors, making it ideal for maritime use.



IDEAL FOR:

- Shipboard high-frequency communication
- Reliable, low-maintenance antenna systems
- Applications requiring high power handling and durability

HF Vertical Dipole Antenna

The VAS-2030 HF Vertical Dipole Antenna offers reliable broadband coverage in the 20-30 MHz range, designed for naval and shipboard communications. Built to withstand harsh environments, this antenna provides high power handling and minimal maintenance.



BROADBAND COVERAGE

Operates from 20 MHz to 30 MHz with no tuner required



HIGH POWER HANDLING

The antenna can handle 1800 W peak envelope power (PEP) and 1000 W average RF power



WEATHERPROOF CONSTRUCTION

The antenna features durable epoxy fiberglass construction, providing excellent weatherproofing for harsh environments



SHIPBOARD ANTENNAS

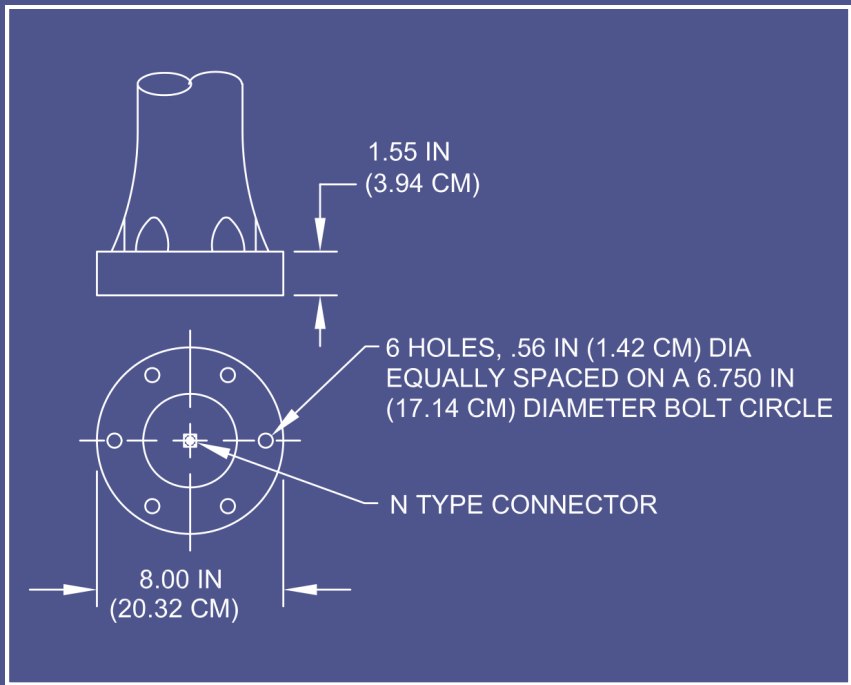
Designed to handle naval conditions



VAS-2030

HF Vertical Dipole Antenna

PN: VAS-2030

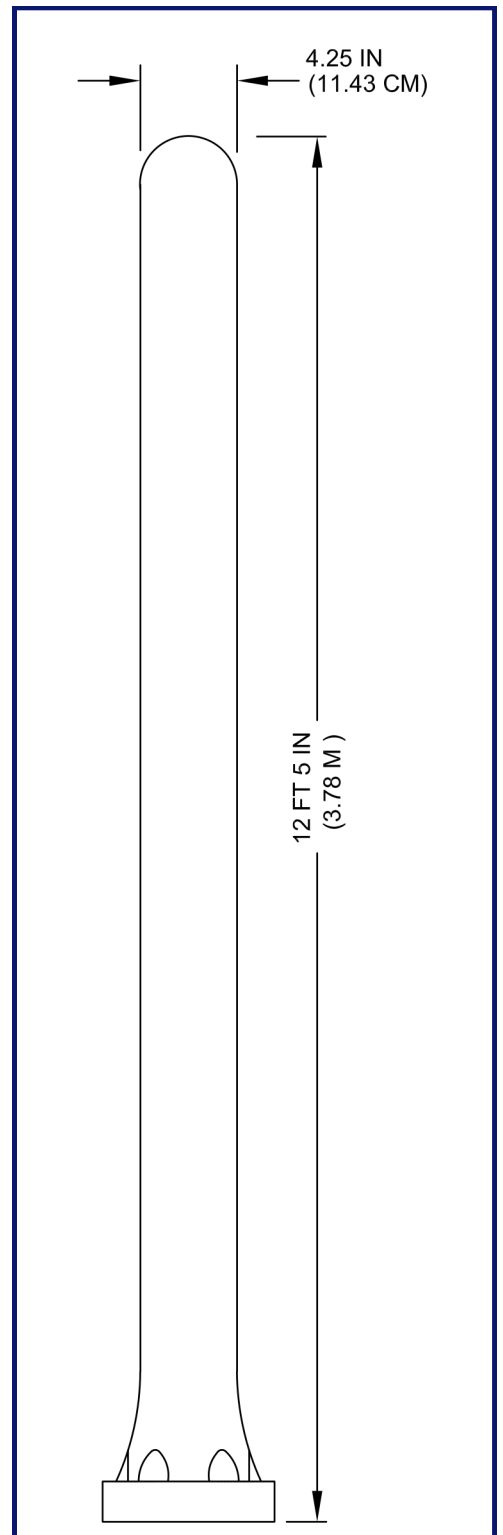


KEY CHARACTERISTICS

VAS-2030

Frequency Range (no tuner)	20 MHz – 30 MHz
Power	1 KW
Height	12.4 ft
Weight	49 lbs
VSWR	< 2.5:1
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Epoxy Fiberglass

The VAS-2030 is a rugged, self-supporting vertical dipole antenna, engineered for optimal performance in naval communication systems. It features a durable epoxy fiberglass construction and excels in transmitting and receiving in the 20-30 MHz frequency range.



IDEAL FOR:

- Reliable, low-maintenance antenna systems in demanding conditions
- Naval and shipboard communications
- High-power transmitting and receiving applications

29-Foot Whip Antenna

The V-252 29-foot whip antenna offers broadband coverage from 1.6-30 MHz, ideal for small coastal patrol vessels and medium power applications. It combines reliability, durability, and lightweight, high-strength performance for less harsh environments.



BROADBAND COVERAGE

Operates from 1.6 MHz to 30 MHz with no tuner required



DURABILITY AND RELIABILITY

The antenna is built for mild environments, withstanding wind speeds up to 150 MPH and ice loads of 0.75 inches at 100 MPH



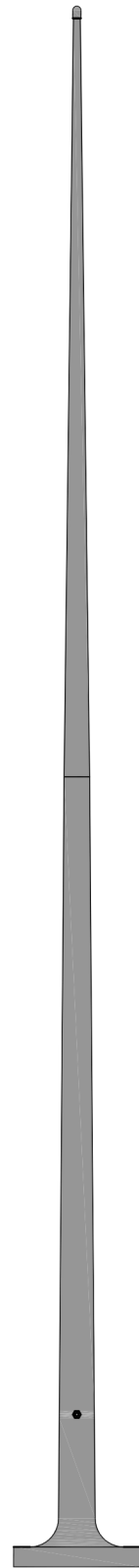
WEATHERPROOF CONSTRUCTION

The antenna features epoxy polyamide paint and is constructed with filament wound epoxy/glass for weatherproofing



SHIPBOARD ANTENNAS

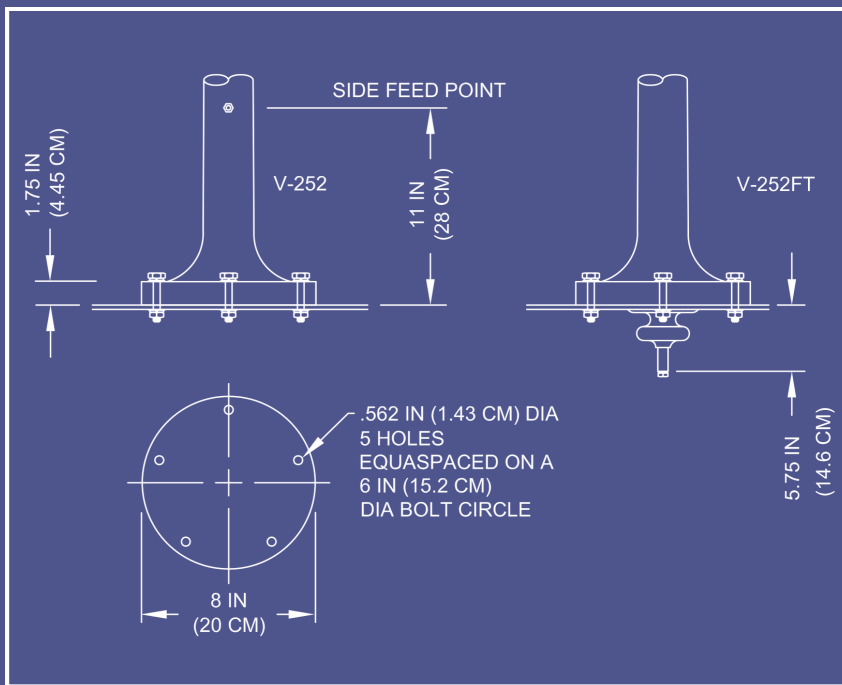
It is ideal for small coastal patrol vessels and other light-duty applications



V-252

29-Foot Whip Antenna

PN: V-252

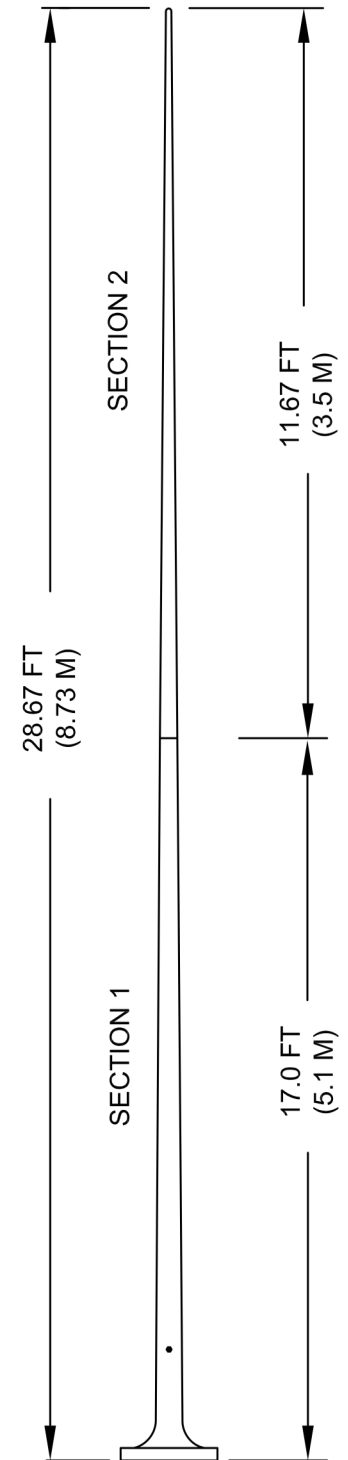


KEY CHARACTERISTICS

V-252

Frequency Range (no tuner)	1.6 MHz – 30 MHz
Power	2 KW
Height	29 ft
Weight	29 lbs
VSWR	Not specified
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Epoxy Fiberglass

The V-252 is a versatile, 29-foot whip antenna designed for general-purpose use in receiving and transmitting systems. It provides omnidirectional coverage and is built with durable epoxy and glass materials, ensuring reliable performance in medium power applications.



IDEAL FOR:

- Small coastal patrol vessels
- Medium power transmitting and receiving applications
- General-purpose communication systems requiring a durable, lightweight antenna

35-Foot Whip Antenna

The V-353 35-foot whip antenna offers broadband coverage from 2-30 MHz, designed for yachts, fast patrol boats, and fixed shelters.

Its rugged, lightweight construction ensures reliable performance with a 1 kW power rating, ideal for a variety of communication applications.



BROADBAND COVERAGE

Operates from 2 MHz to 30 MHz with no tuner required



DURABILITY AND RELIABILITY

Designed for rugged use, it can withstand wind speeds up to 100 MPH and ice loads of 0.75 inches



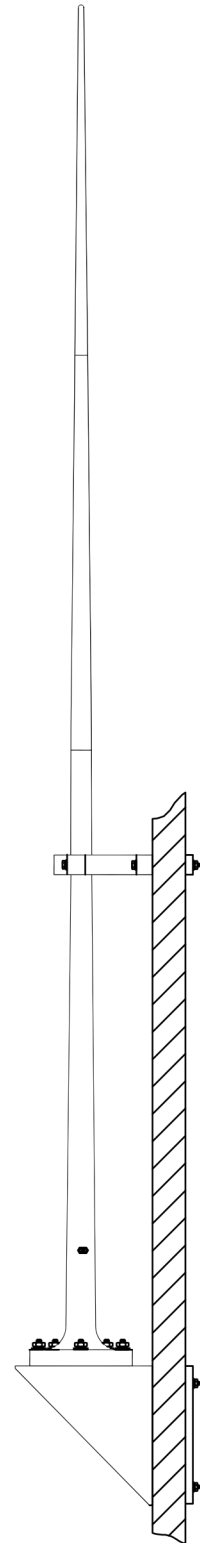
WEATHERPROOF CONSTRUCTION

The antenna is built with epoxy fiberglass and finished with epoxy polyamide paint, offering strong weatherproofing and durability



SHIPBOARD ANTENNAS

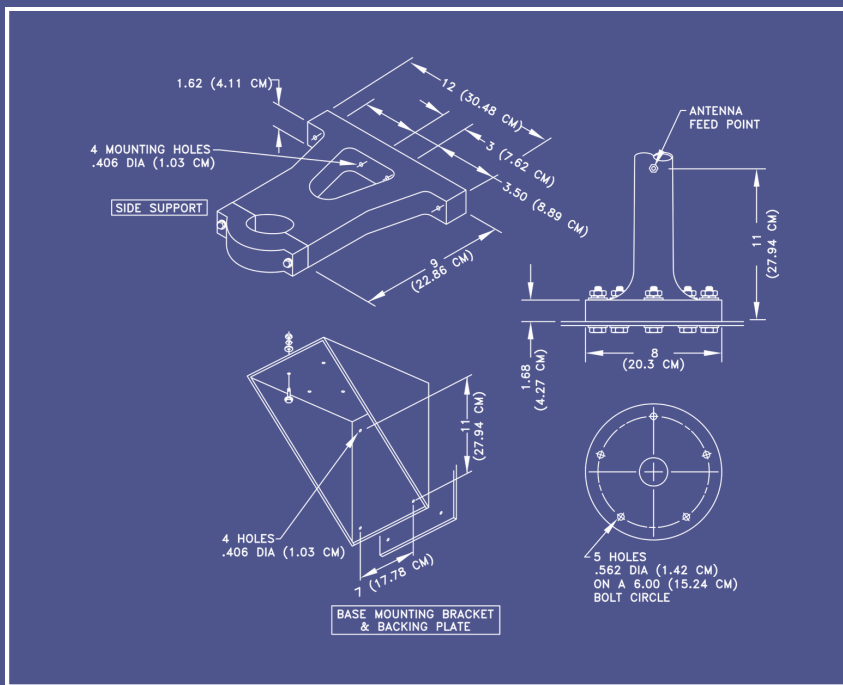
The antenna is designed for yachts, fast patrol boats, and fixed shelters, rather than military/naval shipboard use



V-353

35-Foot Whip Antenna

PN: V-353



KEY CHARACTERISTICS

V-353

Frequency Range (no tuner) 2 MHz – 30 MHz

Power 1 KW

Height 35 ft

Weight 39 lbs

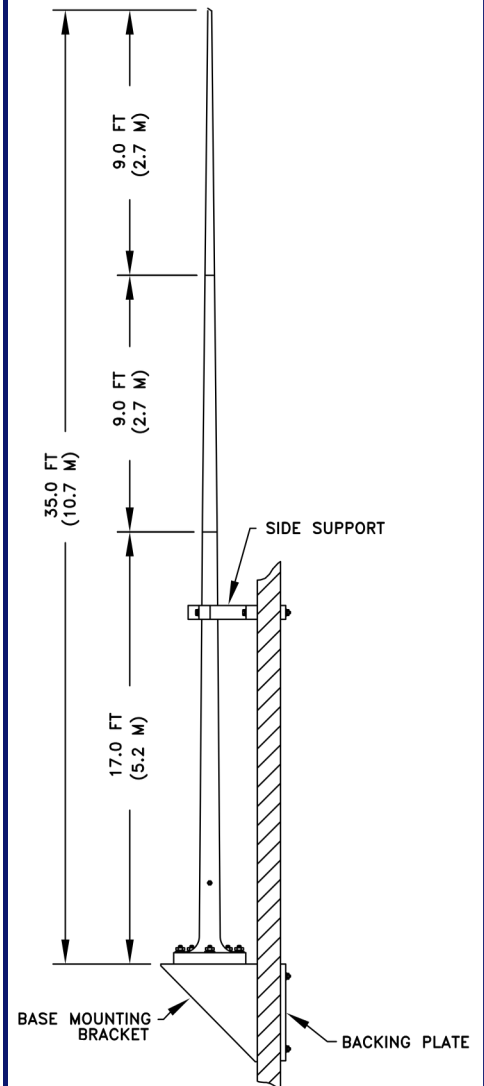
VSWR Not specified

Polarization Vertical

Azimuth Coverage Omnidirectional

Integral Base / Insulator Epoxy Fiberglass

The V-353 is a versatile, three-section whip antenna, built for high-performance communication in the 2-30 MHz range. Its lightweight and durable design, combined with easy mounting options, makes it perfect for maritime and fixed installations.



IDEAL FOR:

- Yachts and fast patrol boats
- Fixed shelters and maritime communication systems
- Medium power transmitting and receiving applications

36-Foot Whip Antenna

The V-425 36-foot whip antenna offers robust, high-power performance from 1.6-30 MHz, ideal for shipboard and marine applications. Built for extreme environments, it combines durability, reliability, and rugged construction for reliable communication.



BROADBAND COVERAGE

Operates from 1.6 MHz to 30 MHz with no tuner required



HIGH POWER HANDLING

The antenna can handle 5 KW average RF power



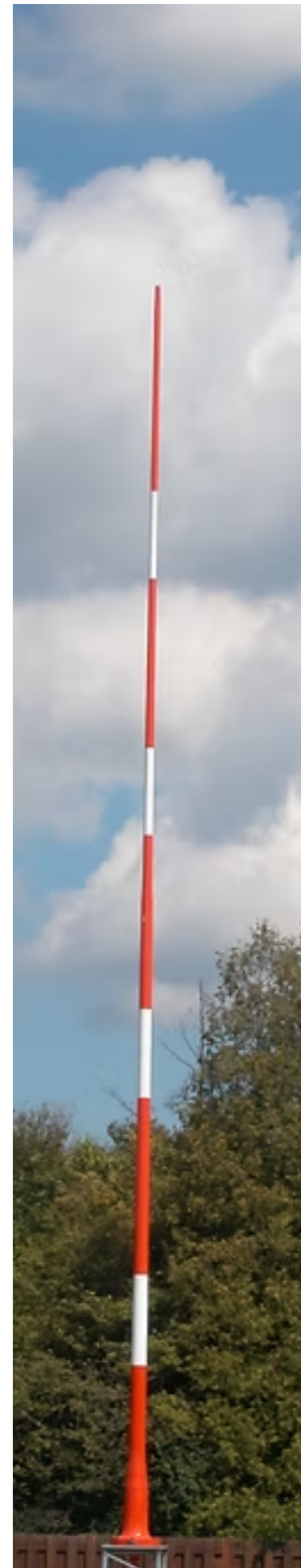
WEATHERPROOF CONSTRUCTION

The antenna features filament-wound epoxy fiberglass with an epoxy polyamide finish for weatherproofing, and a brass corona ball for discharge protection



SHIPBOARD ANTENNAS

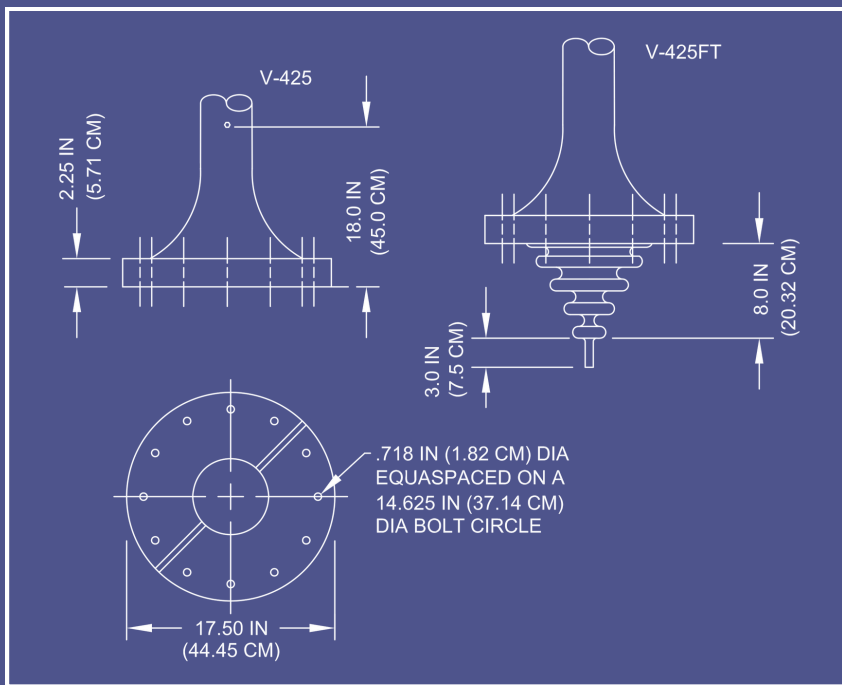
The antenna is ideal for shipboard and marine applications, as well as land-based installations that require rugged construction



V-425

36-Foot Whip Antenna

PN: V-425

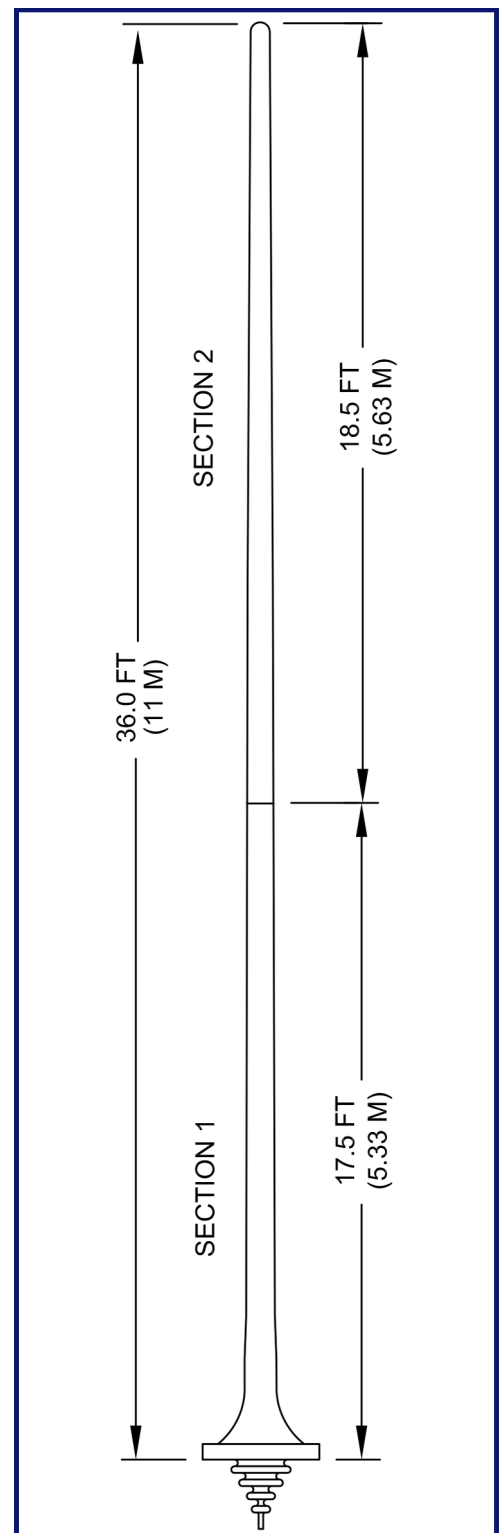


KEY CHARACTERISTICS

V-425

Frequency Range (no tuner)	1.6 MHz – 30 MHz
Power	5 KW
Height	36 ft
Weight	155 lbs
VSWR	Not specified
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Epoxy Fiberglass

The V-425 is a heavy-duty, 36-foot whip antenna designed for high-performance communication in demanding environments. It provides omnidirectional coverage and is perfect for marine and land-based applications requiring high power and reliable operation.



IDEAL FOR:

- Land-based installations requiring rugged, reliable performance
- High-power transmitting and receiving applications
- Harsh environmental conditions

35-Foot Whip Antenna

The Valcom 36-foot whip antenna (V802/V802FT) is a rugged, self-supporting fiberglass antenna for broadband HF communications. Built for harsh environments, it supports transmit and receive operations in maritime, aviation, tactical, and remote applications.



BROADBAND COVERAGE

Operates from 0.8 MHz to 30 MHz with a tuner



DURABILITY AND RELIABILITY

Rugged fiberglass build, weatherproof, and rated for extreme wind, ice, and temperatures.



WEATHERPROOF CONSTRUCTION

Brass fittings for lightning protection and corrosion resistance.



SHIPBOARD ANTENNAS

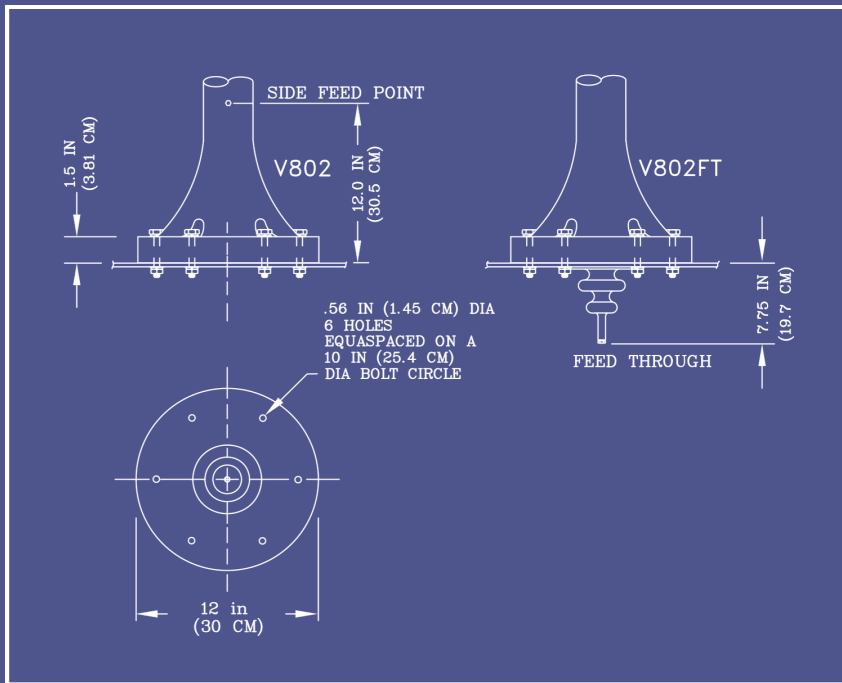
Specifically designed for fast patrol boats and maritime coastal stations



V-802

35-Foot Whip Antenna

PN: V-802

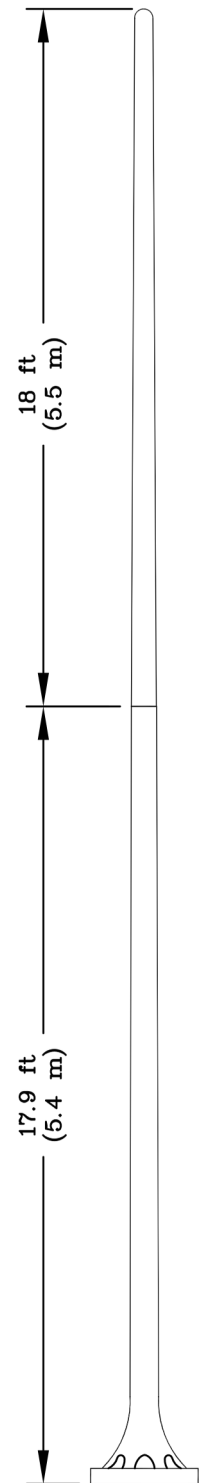


KEY CHARACTERISTICS

V-802

Frequency Range (with tuner)	0.8 MHz – 30 MHz
Power	2.5 KW
Height	35 ft
Weight	73 lbs
VSWR	Not specified
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Epoxy Fiberglass

This is a self-supporting vertical whip antenna constructed of high-strength fiberglass, suitable for broadband HF communications. It is ideal for mobile, fixed, and shipboard installations where rugged reliability and wideband capability are critical.



IDEAL FOR:

- Aviation and remote station use
- Maritime and shipboard operations
- Tactical and field communications
- Harsh weather environments and rugged conditions

HF Whip Antenna

The Valcom VAS-1011 HF Antenna is a lightweight, 8-section fiberglass antenna for stationary and mobile use, offering reliable high-power performance from 2 MHz to 30 MHz with easy assembly and rugged construction.



BROADBAND COVERAGE

Operates from 2 MHz to 30 MHz
average RF power



DURABILITY AND RELIABILITY

The VAS-1011 HF Antenna has 8 fiberglass sections, operates in extreme temperatures, withstands 0.5" of ice, and weighs 19 lbs.



WEATHERPROOF CONSTRUCTION

Weather-resistant with an aluminum base, fiberglass sections, and a rubber tip for RF burn protection



SHIPBOARD ANTENNAS

Can be used in mobile and stationary applications, including vehicles and ships



VAS-1011

HF Whip Antenna



KEY CHARACTERISTICS

VAS-1011

Frequency Range	2 MHz - 30 MHz
Power	1 KW
Height	33.7 ft
Weight	19 lbs
VSWR	Not specified
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Not specified

This HF whip antenna features a modular, 8-section design and delivers excellent performance for transmit and receive applications across 2 MHz to 30 MHz. Ideal for both mobile and stationary setups, it is built for durability in demanding environments.



IDEAL FOR:

- Fixed and portable installations
- Operations in extreme temperatures and ice conditions
- Outdoor and mobile HF communications

16-Foot Marine Whip

The Valcom VMA-16 Marine Whip Antenna is a 16-foot antenna designed for marine applications. Built to withstand harsh conditions, it provides reliable performance in the 1.5 MHz to 30 MHz frequency range with minimal maintenance.



BROADBAND COVERAGE

Operates from 1.5 MHz to 30 MHz
average RF power



DURABILITY AND RELIABILITY

lightweight 4.5 lbs fiberglass antenna with an epoxy polyamide finish, designed to withstand extreme conditions, 140 MPH winds, ice, and MIL-S-901 Grade A shock



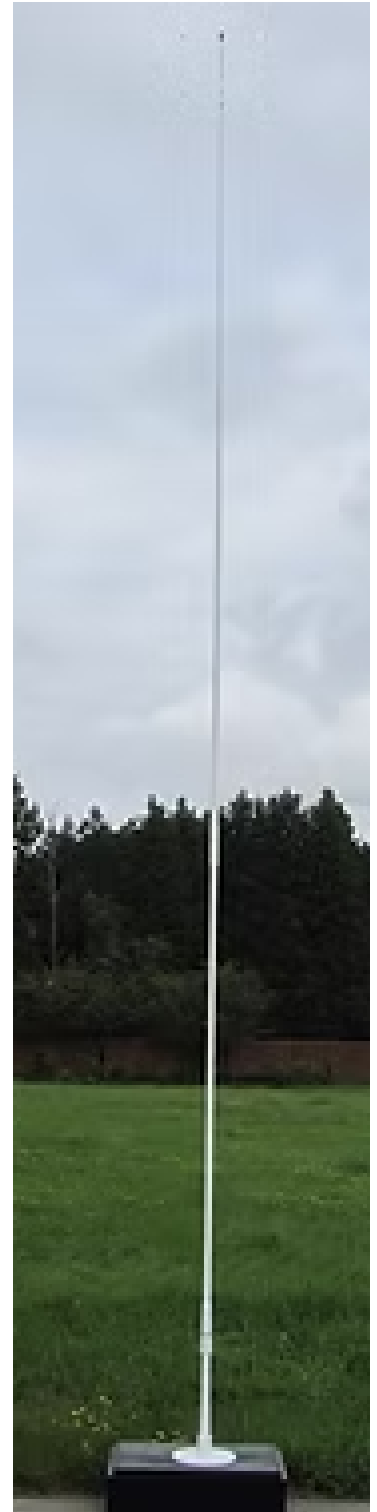
WEATHERPROOF CONSTRUCTION

Weatherproof with epoxy polyamide finish for durability in harsh conditions



SHIPBOARD ANTENNAS

Specifically designed for shipboard applications in marine environments



VMA-16

16-Foot Marine Whip

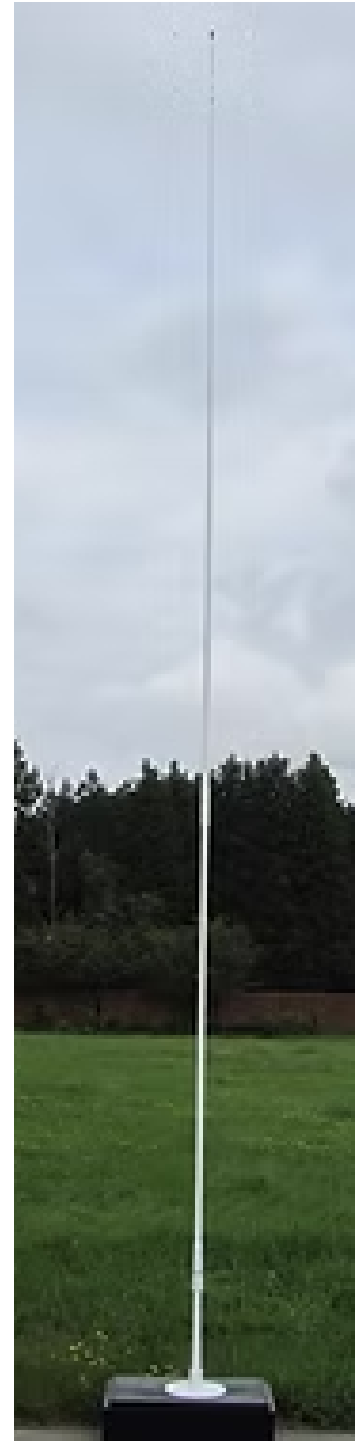


KEY CHARACTERISTICS

VMA-16

Frequency Range	1.5 MHz - 30 MHz
Power	0.5 KW
Height	16.27 ft
Weight	4.5 lbs
VSWR	Not specified
Polarization	Vertical
Azimuth Coverage	Omnidirectional
Integral Base / Insulator	Not specified

This marine whip antenna is ideal for shipboard applications. It offers high reliability and is built to perform in challenging environments, with easy installation and omnidirectional coverage.



IDEAL FOR:

- Shipboard and marine HF communications
- Applications requiring compact, lightweight antennas
- Harsh weather and high-wind environments

Sloping Vee Antenna

The Valcom VD-99-00182-1 Sloping Vee Antenna delivers wideband HF coverage from 1.8 to 30 MHz with no external tuning required. Designed for rugged performance, it handles up to 1 kW peak power and is ideal for quick deployment with optional mast kit support.



BROADBAND COVERAGE

Operates from 1.8 MHz to 30 MHz with no tuner required



HIGH POWER HANDLING

Handles up to 500 W average and 1 kW peak power for reliable high-performance operation



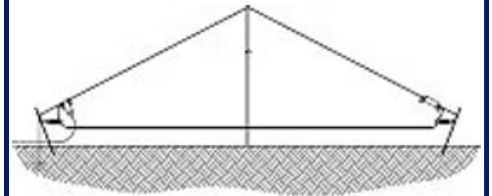
RECEIVE AND TRANSMIT

Suitable for both TX/RX operations



FIXED GROUND INSTALLATION

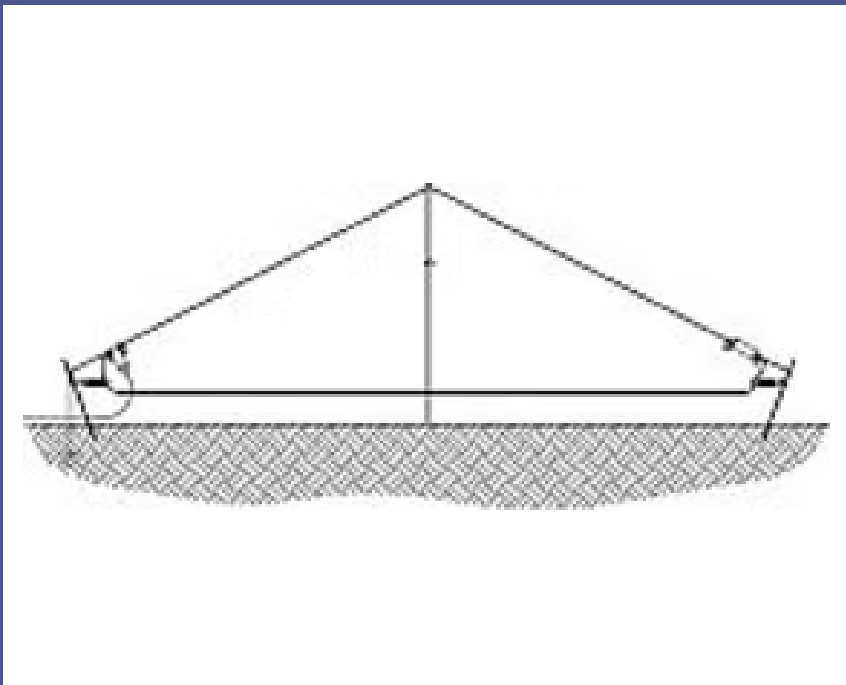
Not shipboard-specific but applicable with optional mast or fixed ground



VD-99-00182-1

Sloping Vee Antenna

NSN: 5985-21-895-5483

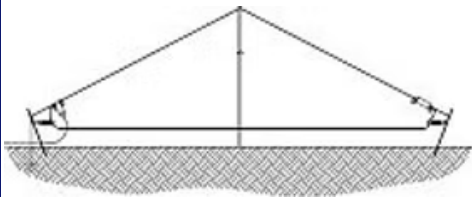


KEY CHARACTERISTICS

VD-99-00182-1

Frequency Range	1.8 MHz - 30 MHz
Power	1 KW
Height	25 ft
Weight	5 lbs
VSWR	< 1.8:1
Polarization	Horizontal / Vertical
Azimuth Coverage	Slightly Bidirectional
Integral Base / Insulator	Epoxy Fiberglass

Wire HF antenna system in a sloping V configuration. Offers horizontal and vertical polarization with bidirectional azimuth pattern for versatile HF communications.



IDEAL FOR:

- Rapid deployment scenarios with limited setup time
- Ship-to-shore and ground-based HF networks
- Remote base stations