

We have your antenna needs in our sights.



When communication is critical
to mission accomplishment
Shakespeare® is there.

Shakespeare is the OEM supplier to leading radio
manufactures and your COTS provider for tactical
vehicular antennas, manpack antennas and masts.



Shakespeare antennas cover the 2MHz - 2.5GHz spectrum
under tactical, C4ISR conditions.



Photos courtesy of U.S.Army

Contact
Dean Young
Business Development Manager Military Products
803-277-1543

Manpack / Handheld 30-88MHz

Product Name: MP-3088/T

The MP-3088/T antenna has been designed for handheld and manpack radio applications operating in the 30-88MHz frequency bandwidth with a VSWR of 2.5:1 or less, outperforming other 30-88MHz antennas. This antenna is designed to meet the requirements for tactical manpack communications.

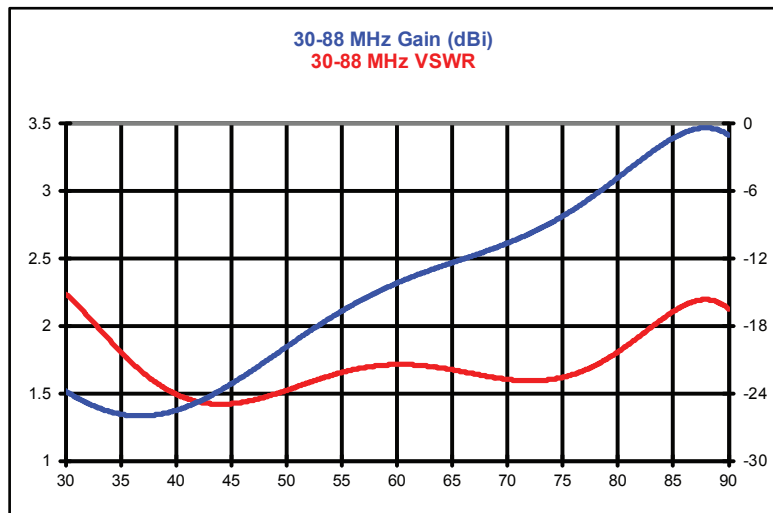
SPECIFICATIONS:

ELECTRICAL:

Frequency:	30-88MHz
Polarization:	Linear
Input Impedance:	50 OHM
Power:	20 Watts
Gain:	-27 to 0dBi
VSWR:	2.5:1 or Less
Pattern:	Omnidirectional

MECHANICAL:

Weight:	< .5 lbs
Height:	42 Inches
Connector:	TNC Male



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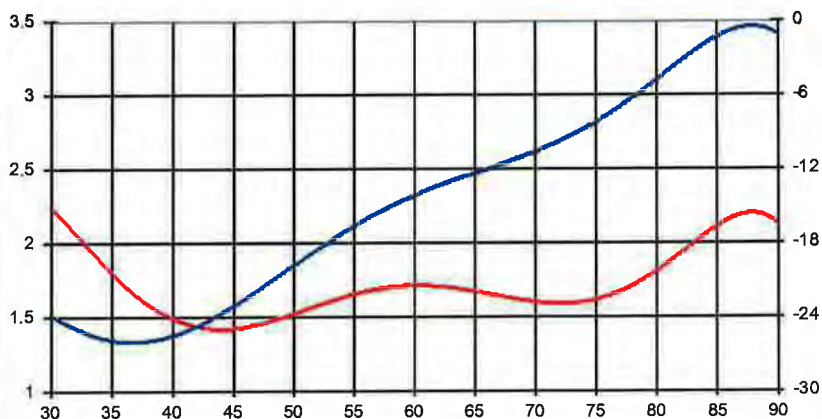
Made in the USA

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MILITARY ANTENNA PRODUCTS

SPECIFICATION

FREQUENCY: 30–88 MHz
 INSTANTANEOUS BANDWIDTH: 58 MHz
 POLARIZATION: LINEAR
 INPUT IMPEDANCE: 50 OHMS NOMINAL
 INPUT POWER: 20 WATTS CW (30–88 MHz)
 RF CONNECTOR: TNC MALE
 VSWR AVERAGE: 2.5:1 OR LESS
 PATTERN: OMNIDIRECTIONAL
 GAIN: –27 TO 0 dBi
 WEIGHT: <.5 lb
 HEIGHT: 42"

30-88 MHz Gain (dBi)
 30-88 MHz VSWR



37.25 (FLEXIBLE)

4.75 (RIGID)

TNC CONNECTOR

Shakespeare

SINCE 1897

ELECTRONIC PRODUCTS GROUP
 COLUMBIA, S.C. 29223

DRAWN
 BDM

ENG APPROVAL:

SCALE

NONE

DATE

9/24/14

MANPACK ANTENNA w/TNC
 CONNECTOR, 30–88 MHz

PART#

MP-3088/T

Manpack / Handheld 225-450MHz

Product Name: MP-2245/T

The MP-2245/T antenna has been designed for handheld and manpack radio applications operating in the 225-450 MHz frequency bandwidth a VSWR of 2.7:1 or less, outperforming other 225-450 MHz antennas.

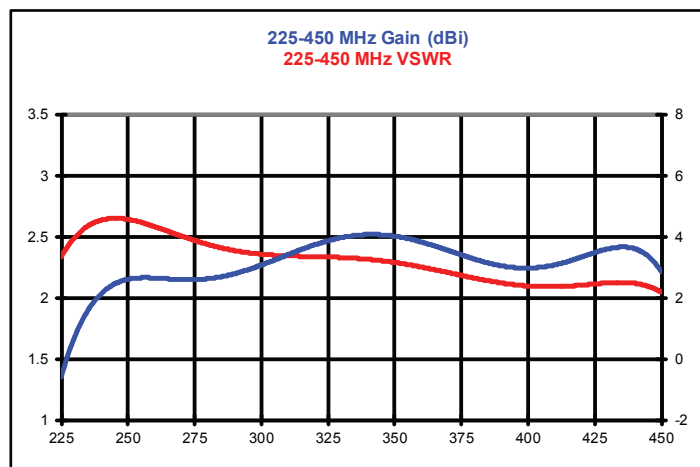
SPECIFICATIONS:

ELECTRICAL:

Frequency:	225-450MHz
Polarization:	Linear
Input Impedance:	50 OHM
Power:	20 Watts
Gain:	0 to 4dBi
VSWR:	2.7:1 or Less
Pattern:	Omnidirectional

MECHANICAL:

Weight:	< .25lbs
Height:	13 Inches
Connector:	TNC Male



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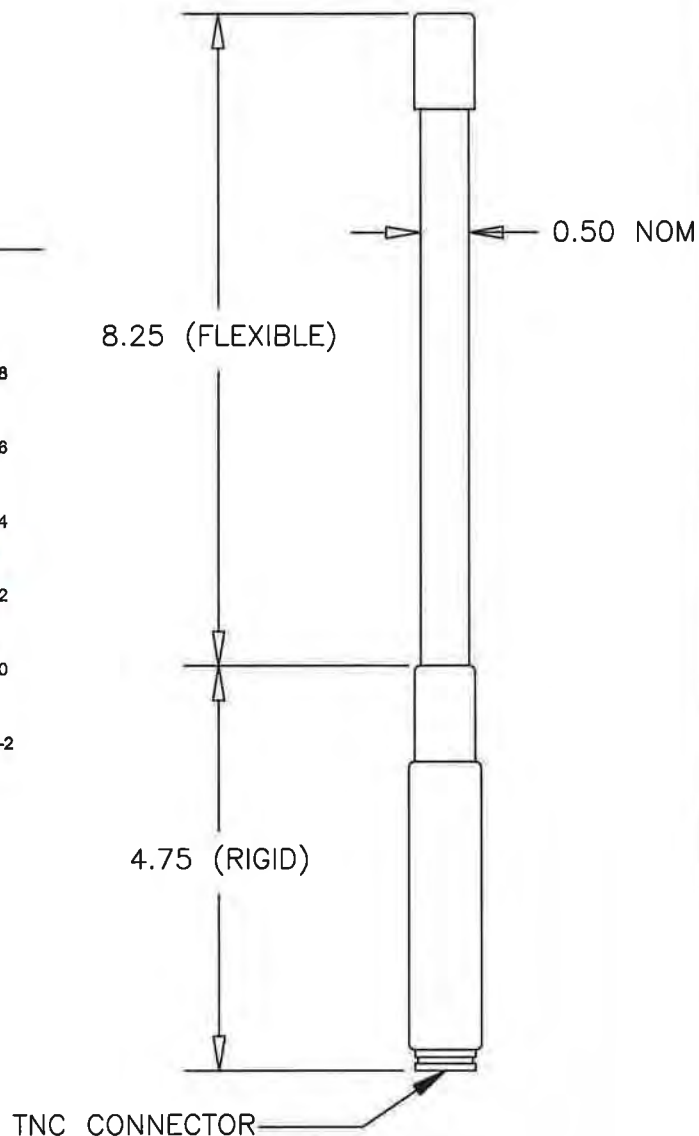
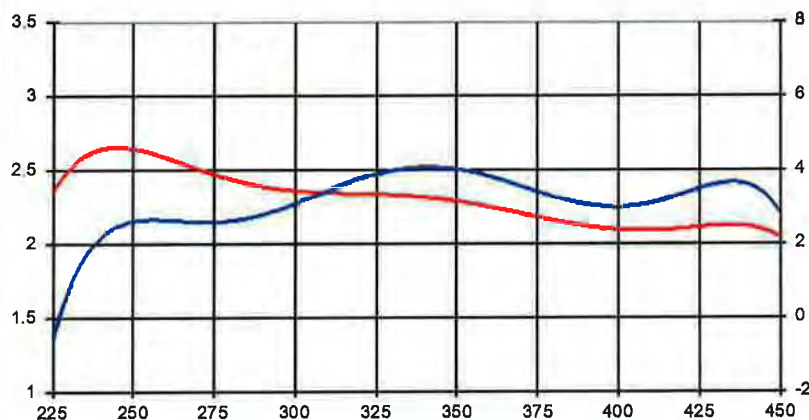
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MILITARY ANTENNA PRODUCTS

SPECIFICATION

FREQUENCY: 225-450 MHz
 INSTANTANEOUS BANDWIDTH: 225 MHz
 POLARIZATION: LINEAR
 INPUT IMPEDANCE: 50 OHMS NOMINAL
 INPUT POWER: 20 WATTS CW (225-450 MHz)
 RF CONNECTOR: TNC MALE
 VSWR AVERAGE: 2.7:1 OR LESS
 PATTERN: OMNIDIRECTIONAL
 GAIN: 0 TO 4 dBi
 WEIGHT: <.25 lb
 HEIGHT: 13"

225-450 MHz Gain (dBi)
 225-450 MHz VSWR



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ELECTRONIC PRODUCTS GROUP
 COLUMBIA, S.C. 29223

DRAWN
 BDM

ENG APPROVAL:

SCALE

NONE

DATE

9/24/14

MANPACK ANTENNA w/TNC
 CONNECTOR, 225-450 MHz

PART#

MP-2245/T

Manpack / Handheld 30-512MHz

Product Name: MP-3512/T **NSN:** 5985-01-626-3218
MP-3512/TG **NSN:** 5985-01-630-3982

The MP-3512/T Broadband manpack antenna has been designed for manpack and handheld radio applications operating in the 30-512 MHz frequency bandwidth a VSWR of 2.5:1 or less, outperforming other 30-512 MHz antennas. This antenna is designed to meet the requirements for tactical communications.

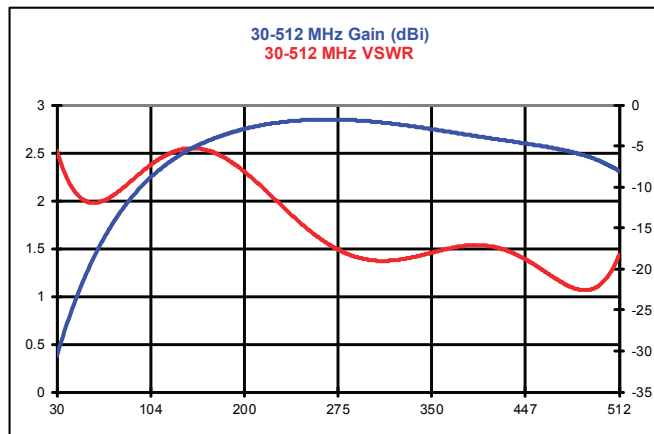
SPECIFICATIONS:

ELECTRICAL:

Frequency: 30-512MHz
Polarization: Linear
Input Impedance: 50 OHM
Power: 20 Watts
Gain: -2 to -30dBi
VSWR: 2.5:1 or Less
Pattern: Omnidirectional

MECHANICAL:

Weight: < 1lb
Height: 20 Inches
Connector: TNC Male



The MP-3512/TG has a built-in gooseneck to provide more flexibility.

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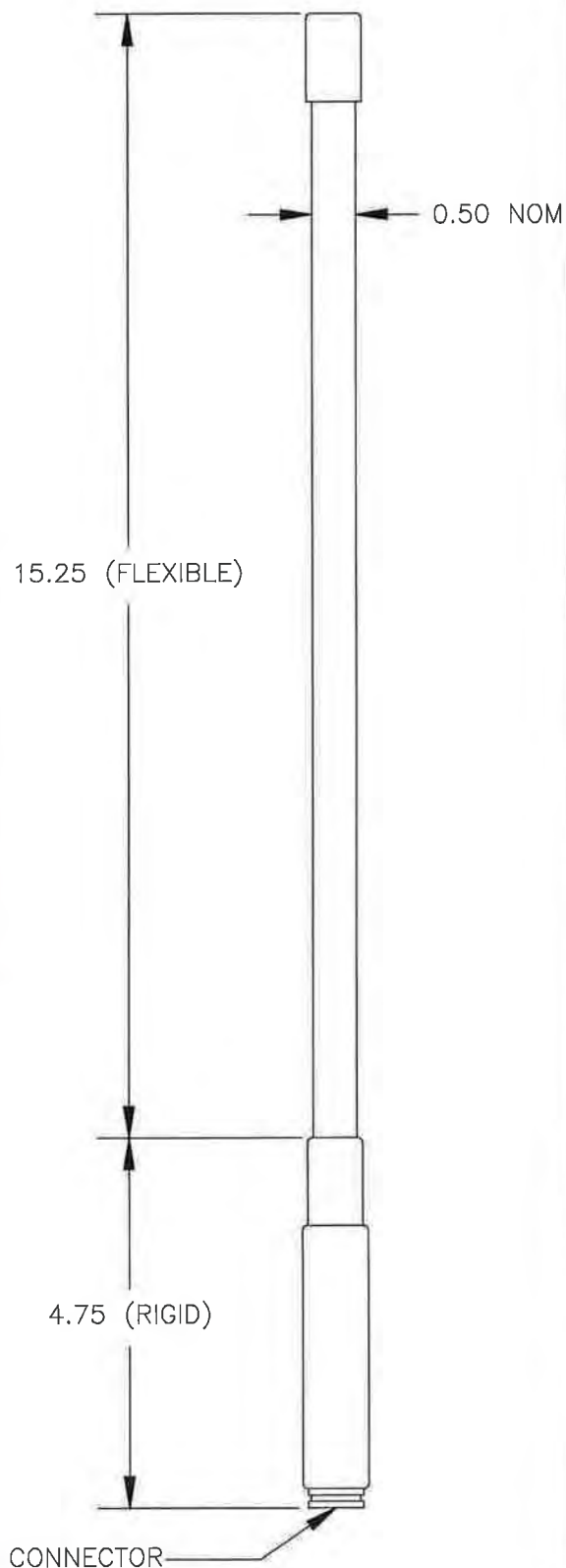
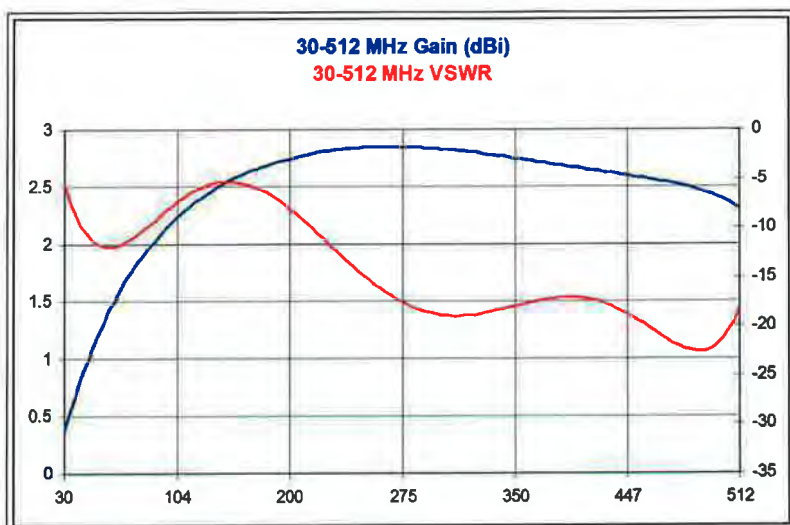


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MILITARY ANTENNA PRODUCTS

SPECIFICATION

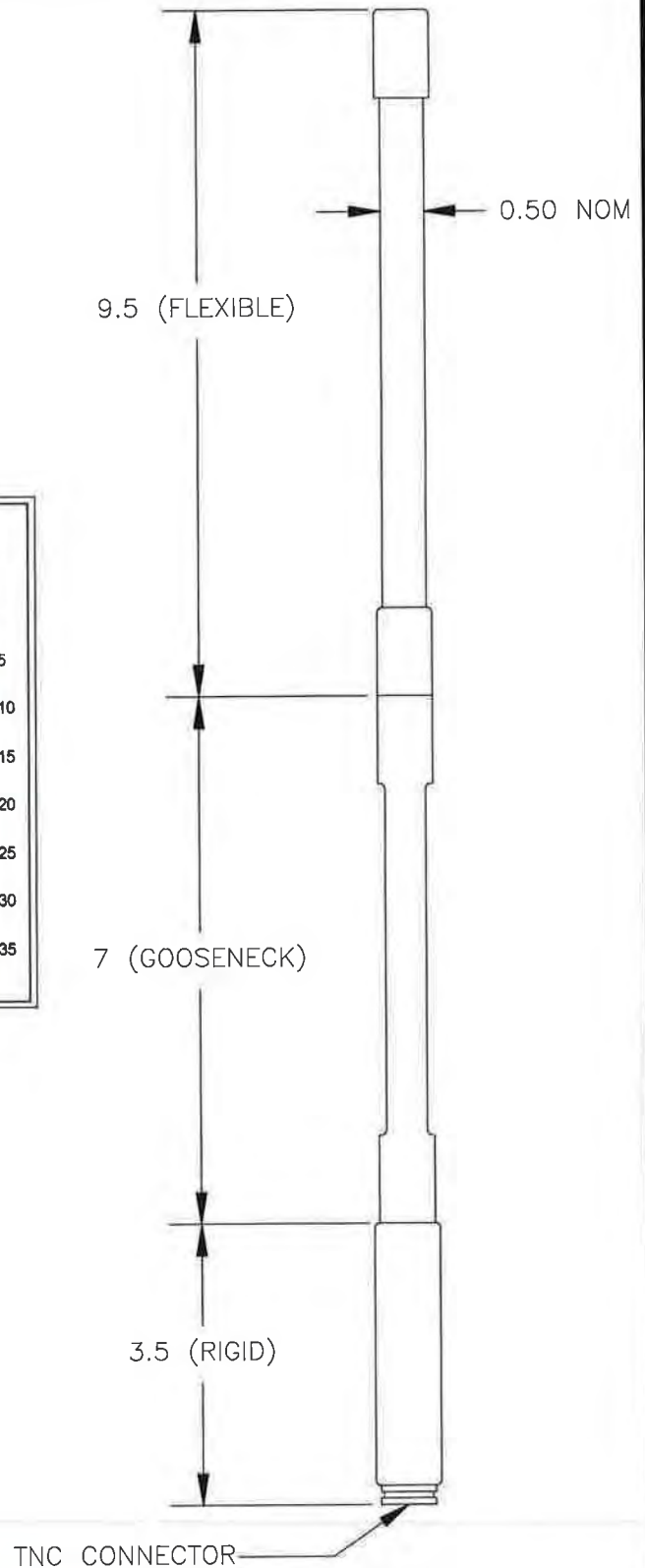
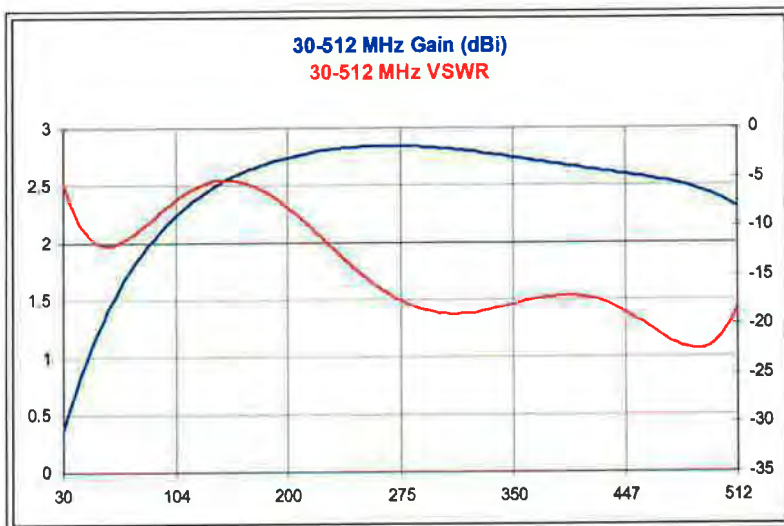
FREQUENCY: 30-512 MHz
 INSTANTANEOUS BANDWIDTH: 482 MHz
 POLARIZATION: LINEAR
 INPUT IMPEDANCE: 50 OHMS NOMINAL
 INPUT POWER: 20 WATTS CW (30-512 MHz)
 RF CONNECTOR: TNC MALE
 VSWR AVERAGE: 2.5:1 OR LESS
 PATTERN: OMNIDIRECTIONAL
 GAIN: -2 TO -30 dBi
 WEIGHT: <1 lb
 HEIGHT: 20"



DRAWN LFS	ENG APPROVAL:	SCALE NONE	DATE 10/19/12
MANPACK ANTENNA w/TNC CONNECTOR, 30-512 MHz			
PART# MP-3512/T			

SPECIFICATION

FREQUENCY: 30-512 MHz
 INSTANTANEOUS BANDWIDTH: 482 MHz
 POLARIZATION: LINEAR
 INPUT IMPEDANCE: 50 OHMS NOMINAL
 INPUT POWER: 20 WATTS CW (30-512 MHz)
 RF CONNECTOR: TNC MALE
 VSWR AVERAGE: 2.5:1 OR LESS
 PATTERN: OMNIDIRECTIONAL
 GAIN: -2 TO -30 dBi
 WEIGHT: <1 lb
 HEIGHT: 20"



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DRAWN BDM	ENG APPROVAL	SCALE NONE	DATE 3/14/13
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MANPACK ANTENNA (TNC),
 w/GOOSENECK, 30-512 MHz

PART# MP-3512/TG

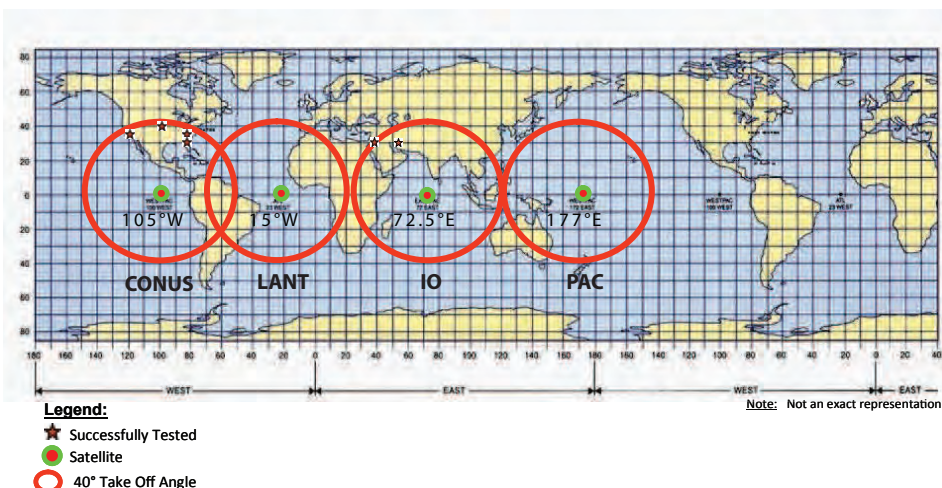
Shakespeare RAMHEAD™ SATCOM ANTENNA

Product Name: RH-2535 NSN: 5985-01-619-6085

The RamHead Tactical SATCOM Antenna is designed to provide the radio operator a hands-free way to send and receive real time information via satellite. The RamHead provides high quality voice communications for both mounted and dismounted operations.

SPECIFICATIONS

Frequency: 225MHz-500MHz
Polarization: Linear
Input Power: 25 Watts (Max)
Gain: 2.14dBi
VSWR: 2.5:1 or Less



RamHead performance may vary based on location of operation. Operational chart is based on the results during field testing. Optimal usage is at a take-off-angle of 40 degrees or greater.

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WideBand Body Patch

30-2000MHz

Product Name: BPA-3200

Shakespeare introduces the Wideband High Performance Patch Antenna. This antenna can be worn in the proximity to the user's torso, attached to a backpack, protection vest or in a pocket. This antenna is comparable to standard whip antennas that come with most radio's. This antenna provides a wider spectrum and greater portability.

- Commercial Cellular
- SATCOM
- Military/Government
- First Responders
- Executive Security
- Public Safety



5"H x 5 3/4"W

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MILITARY ANTENNA PRODUCTS

VHF/UHF

30-512MHz

Product Name: SFB-3512/VRC
SFB-3512D/VRC

NSN: 5985-01-514-2271
NSN: 5985-01-497-7004

Whether used in battlefield, tactical, or C4I conditions, Shakespeare's broadband antenna technology will provide maximum performance for the latest multi-mission radios from the leading US and international manufacturers. Shakespeare's fiberglass military antennas have won praises from US and NATO military forces for exceptional durability and strong communications capability.

Shakespeare is providing exceptional gain and instantaneous bandwidth performance for the 30-512 MHz spectrum in a completely passive application. No tuners, band switching, or operator intervention required. The SFB3512/VRC is designed to meet and exceed the rigors of MIL STD-810 tests for mechanical and environmental characteristics. In addition, high-voltage power line protection built in.

SPECIFICATIONS:

ELECTRICAL:

Frequency: 30-512MHz
Polarization: Vertical
Input Impedance: 50 OHM
Power: 75 Watts
Gain: -6dB to +1dB
(Ref 1/4 Wave on a 10x10x10 Ground Plane)
VSWR: 3.5:1 or Less
Pattern: Omnidirectional

MECHANICAL:

Weight: 5.25lb
Height: 100 Inches
Connector: N Female



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SPECIFICATION

FREQUENCY: 30-512 MHz
 INSTANTANEOUS BANDWIDTH: 482 MHz
 POLARIZATION: VERTICAL
 INPUT IMPEDANCE: 50 OHMS NOMINAL
 INPUT POWER: 75 WATTS CW
 RF CONNECTOR: 30-512 MHz = TYPE N STANDARD
 DUAL FEED: OPTIONAL LP-DFD DIPLEXER (DUAL BNC)
 VSWR: AVERAGE 3.5:1 OR LESS
 GAIN: 30-512 MHz = -5 TO +4 dBi
 WEIGHT: 7 LBS APPROXIMATE
 WIND RATING: 70 MPH
 HV PROTECTION: 20 kV RMS
 COLOR: GREEN, TAN, BLACK

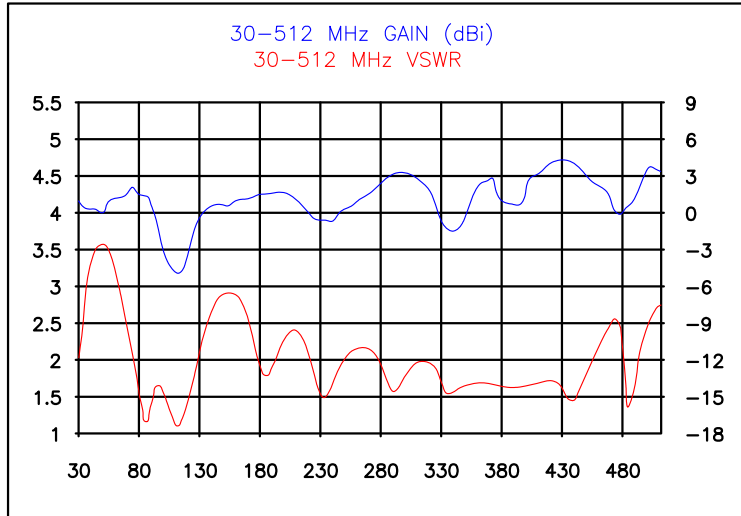
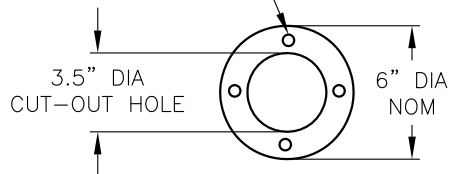


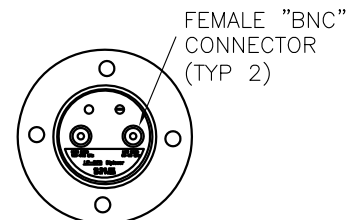
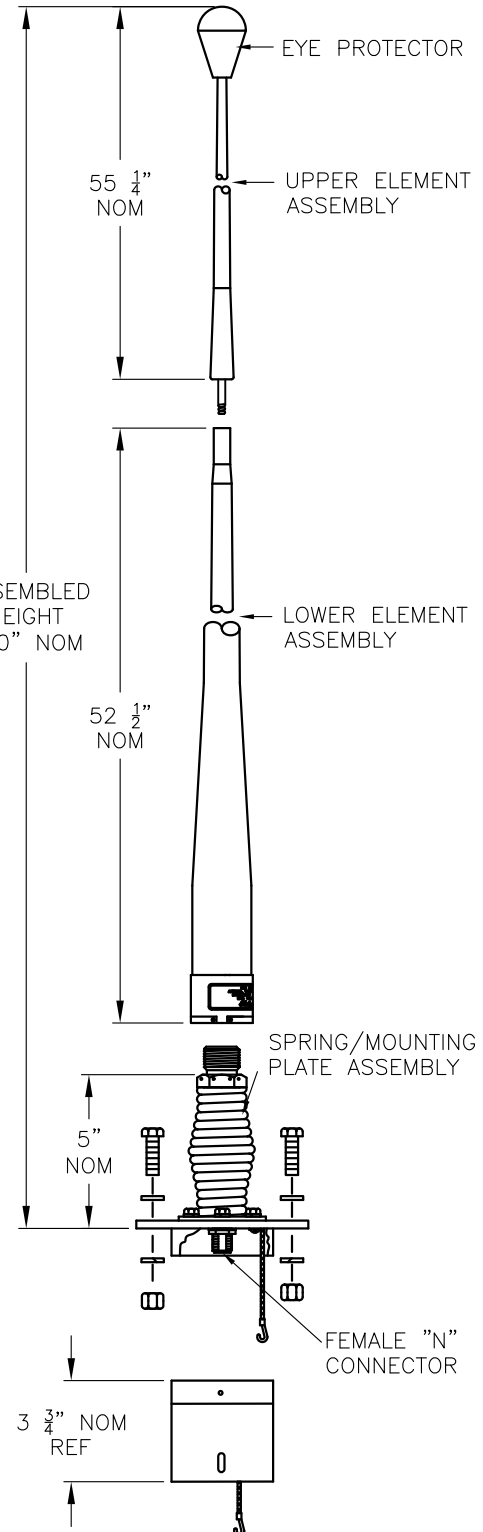
TABLE OF OPTIONAL MODELS:

SFB3512/VRC - GREEN COLOR NO DIPLEXER
 SFB3512B/VRC - BLACK COLOR NO DIPLEXER
 SFB3512T/VRC - TAN COLOR NO DIPLEXER
 SFB3512D/VRC - GREEN COLOR W/LP-DFD INSTALLED
 SFB3512BN/VRC - GREEN COLOR W/"BNC" TERMINATION

FOUR .438" DIA HOLES
 SPACED 90° APART ON
 4.5" BOLT HOLE CIRCLE



BOLT HOLE MOUNTING PATTERN



BOTTOM VIEW

FEMALE "BNC"
 CONNECTOR
 (TYP 2)

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES.

.X = ± TOL_X

.XX = ± TOL_XX

.XXX = ± TOL_XXX

ANGLES = ± TOL_ANG



DRAWN: HRJ ENG APPROVAL: SCALE: DATE: 9/20/10

BROADBAND
 30-512 MHz

PART# SFB-3512/VRC

REV DESCRIPTION BY DATE

Tri-Band 30-2000MHz

Product Name: WB3200/VRC

Whether used in battlefield, tactical, or C4I conditions, Shakespeare's Tri-Band antenna technology will provide maximum performance for the latest multi-band radios from the leading US and international manufacturers. Shakespeare's fiberglass military antennas have won praises from US and NATO military forces for exceptional durability and strong communications capability.

Shakespeare is providing exceptional gain and instantaneous bandwidth performance for the 30-2000MHz spectrum in a completely passive application. No tuners, band switching, or operator intervention required.

SPECIFICATIONS:

ELECTRICAL:

Frequency: 30-88MHz
225-240MHz
1260-2000MHz
Polarization: Vertical
Input Impedance: 50 OHM
Power: 100 Watts PEP
(Ref 1/4 Wave on a 10x10x10 Ground Plane)
VSWR: 3.5:1 or Less
Pattern: Omnidirectional

MECHANICAL:

Weight: ~12lb
Height: 74 Inches
Connector: BNC - 30-88MHz
BNC - 225-450MHz
Type N - 1260-2000MHz



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SPECIFICATION

FREQUENCY: VHF = 30-88 MHz
 UHF = 225-450 MHz
 L-BAND = 1260-2000 MHz
 INSTANTANEOUS BANDWIDTH: VHF = 58 MHz
 UHF = 225 MHz
 L-BAND = 740 MHz

POLARIZATION: VERTICAL

INPUT IMPEDANCE: 50 OHMS NOMINAL

INPUT POWER: 100 WATTS PEP

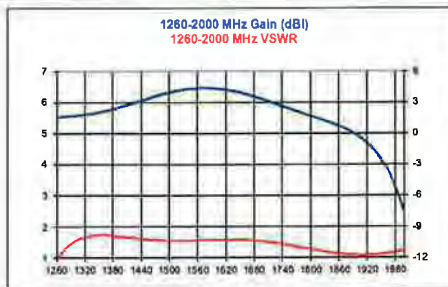
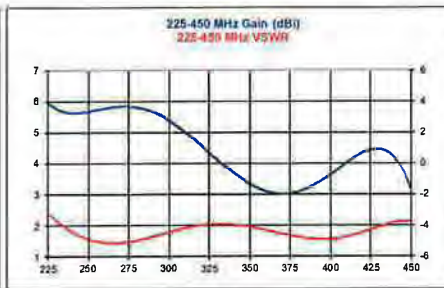
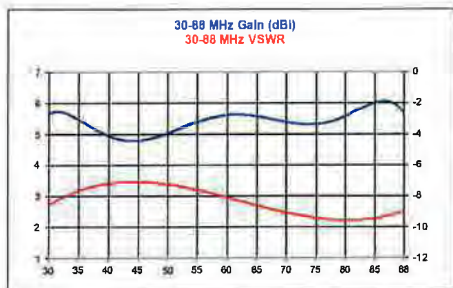
RF CONNECTOR: 30-88 MHz, 225-450 MHz = BNC
 1260-2000 MHz = TYPE N

VSWR: 30-88 MHz = AVG 3.5:1 OR LESS
 225-450 MHz = AVG 2.5:1 OR LESS
 1260-2000 MHz = AVG 2.0:1 OR LESS

GAIN: 30-88 MHz = -4 to -2 dBi
 225-450 MHz = -2 to 4 dBi
 1260-2000 MHz = -7.5 to 4.5 dBi

WEIGHT: 12 LBS APPROXIMATE

COLOR: GREEN, TAN, BLACK



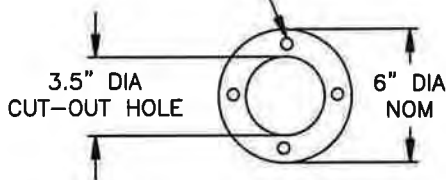
TYPE N CONNECTOR
 1260-2000 MHz

BNC CONNECTOR
 225-450 MHz

BNC CONNECTOR
 30-88 MHz

BOTTOM VIEW

FOUR .438" DIA HOLES
 SPACED 90° APART ON
 4.5" BOLT HOLE CIRCLE



BOLT HOLE MOUNTING PATTERN

1.25" DIA NOM

ASSEMBLED
 HEIGHT
 74" NOM

12.75" NOM

DO NOT SCALE DRAWING

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 DIMENSIONS ARE IN INCHES.

X = ± TOL_X

JXX = ± TOL_JXX

JXXX = ± TOL_JXXX

ANGLES = ± TOL_ANG

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 COLUMBIA, S.C. 29203

DRAWN BDM DESG APPROVAL SCALE DATE 1/25/13

MULTIBAND ANTENNA, 30-88 MHz,
 225-450 MHz, 1260-2000 MHz

PART# WB-3200/VRC

REV DESCRIPTION BY DATE

UHF

225-450MHz

Product Name: WB2245/VRC
US Patent # 7339529

NSN: 5985-01-621-4603

The WB2245/VRC was designed for civil defense, disaster preparedness and general communications antenna operating in the 225-450MHz frequency range. The WB2245/VRC uses a unique patented design to allow maximum link capabilities with the best pattern efficiency.

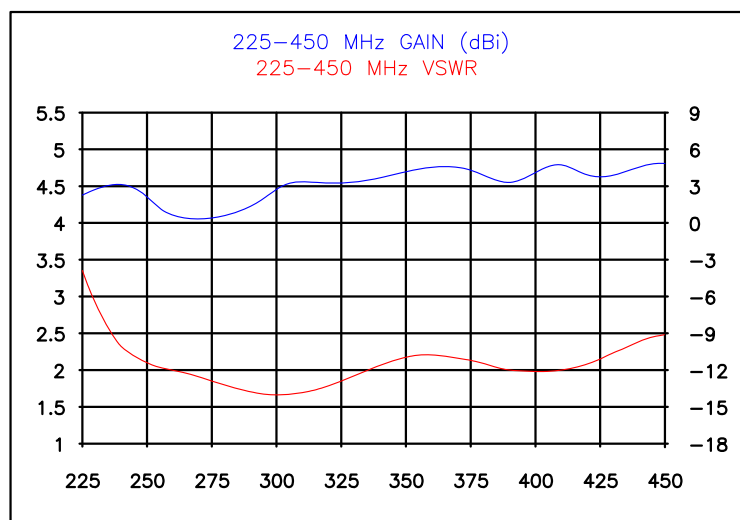
SPECIFICATIONS:

ELECTRICAL:

Frequency: 225-450MHz
Polarization: Vertical
Input Impedance: 50 OHM
Power: 100 Watts
VSWR: Average 3.5:1
Gain: 0 to +5dBi
Pattern: Omnidirectional

MECHANICAL:

Weight: 6lb
Height: 33 Inches
Connector: Type N



DATA MEASURED ON A 10FT X 10FT X 10FT GROUNDPLANE
COMPARED AGAINST 1/4 WAVE MONOPOLES



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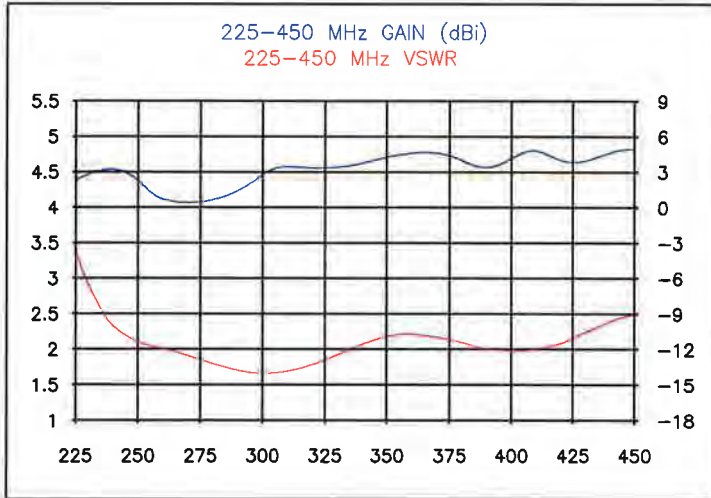


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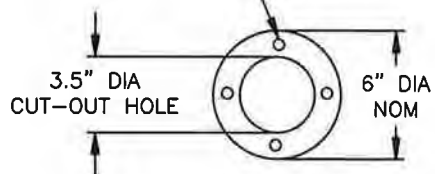
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SPECIFICATION

FREQUENCY: 225-450 MHz
 INSTANTANEOUS BANDWIDTH: 225 MHz
 POLARIZATION: VERTICAL
 INPUT IMPEDANCE: 50 OHMS NOMINAL
 INPUT POWER: 100 WATTS CW
 RF CONNECTOR: TYPE N
 VSWR: AVERAGE 3.5:1 OR LESS
 GAIN: 0 TO +5 dBi
 WEIGHT: 6 LBS APPROXIMATE
 COLOR: GREEN, TAN, BLACK

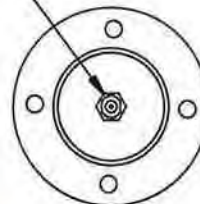


FOUR .438" DIA HOLES
 SPACED 90° APART ON
 4.5" BOLT HOLE CIRCLE



BOLT HOLE MOUNTING PATTERN

TYPE N CONNECTOR
 225-450 MHz



BOTTOM VIEW

ø2.63" NOM

ASSEMBLED
 HEIGHT
 33" NOM

5" NOM

DO NOT SCALE DRAWING

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 DIMENSIONS ARE IN INCHES.
 X = ± TOL_X
 JX = ± TOL_JX
 JXX = ± TOL_JXX
 ANGLES = ± TOL_ANG

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DRAWN HRJ DES APPROVAL SCALE DATE 8/31/11

WIDE BAND ANTENNA
 225-450 MHz

PART# WB-2245/VRC

REV DESCRIPTION BY DATE

Wi-Fi

500-2500MHz

Product Name: HP5250S/VRC
US Patent # 7855693, 7339529

NSN: 5985-01-583-1823

The HP5250S/VRC was designed for civilian and military Wi-Fi applications operating in the 500-2500MHz frequency range. The HP5250S/VRC uses a unique patented radiator design to allow maximum link capabilities with the best pattern efficiency across a very wide bandwidth. This design minimizes pattern up-tilt and maintains best signal to the horizon.

SPECIFICATIONS:

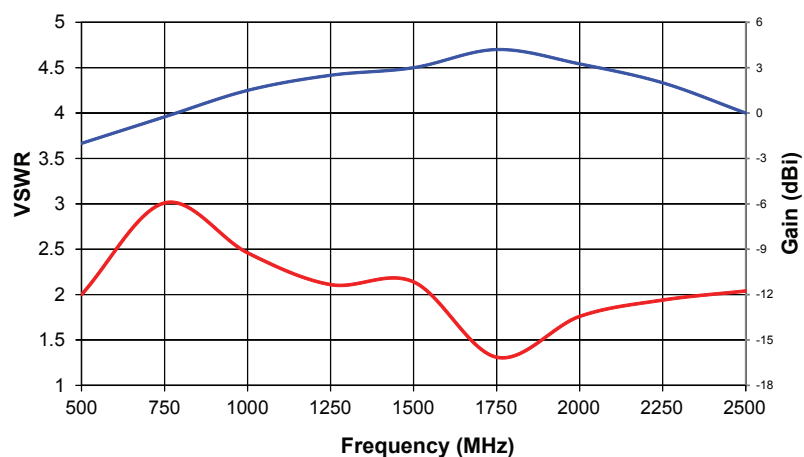
ELECTRICAL:

Frequency: 500-2500MHz
Polarization: Vertical
Input Impedance: 50 OHM
Power: 200 Watts
VSWR: Average 3:1
Gain: -2 to +4dBi
Pattern: Omnidirectional

MECHANICAL:

Weight: 6lb
Height: 40 Inches
Connector: Type N

HP-5250S/VRC



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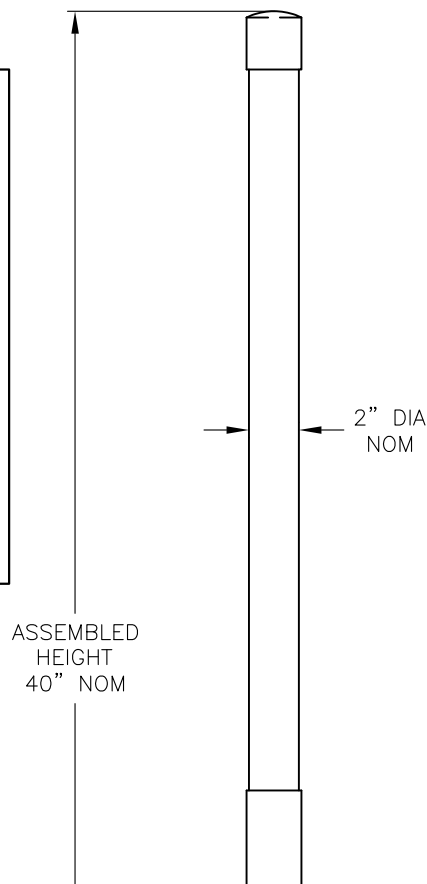
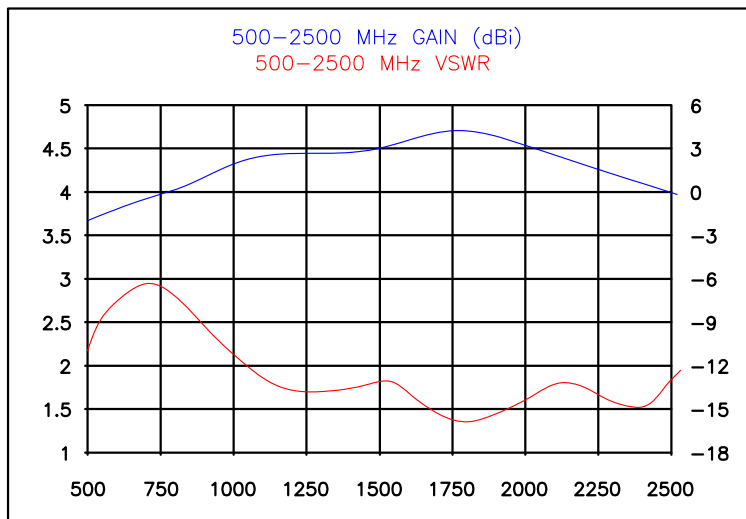


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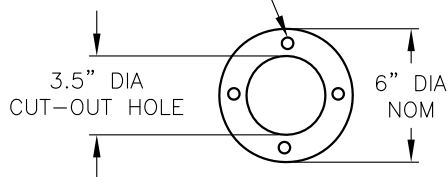
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SPECIFICATION

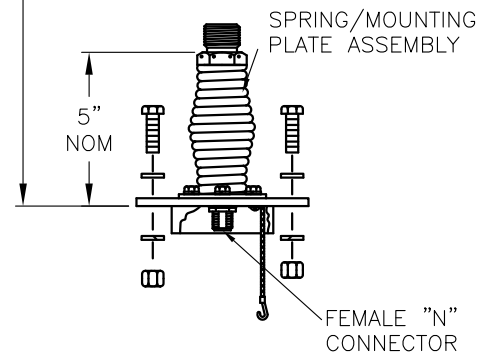
FREQUENCY: 500-2500 MHz
 INSTANTANEOUS BANDWIDTH: 2 GHz
 POLARIZATION: VERTICAL
 INPUT IMPEDANCE: 50 OHMS NOMINAL
 INPUT POWER: 200 WATTS CW
 RF CONNECTOR: 500-2500 MHz = TYPE N STANDARD
 VSWR: AVERAGE 3.0:1 OR LESS
 GAIN: 500-2500 MHz = -2 TO +4 dBi
 WEIGHT: 5 LBS APPROXIMATE
 COLOR: GREEN, TAN, BLACK



FOUR .438" DIA HOLES
 SPACED 90° APART ON
 4.5" BOLT HOLE CIRCLE



BOLT HOLE MOUNTING PATTERN



DO NOT SCALE DRAWING

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 DIMENSIONS ARE IN INCHES.

.X = ± TOL_X

.XX = ± TOL_XX

.XXX = ± TOL_XXX

ANGLES = ± TOL_ANG



DRAWN: HRJ ENG APPROVAL: SCALE: DATE: 12/3/10

HIGH POWER BROADBAND
 500-2500 MHz

PART# HP-5250S/VRC

REV	DESCRIPTION	BY	DATE



**Product Name: PM32MC-MK3512
PM53MC-MK3512
PM73MC-MK3512**

The Rolatube PANTHER MAST is offered by Shakespeare as an alternative to heavy, burdensome communications mast/antenna solutions currently on the market today. This ultra lightweight system allows the operator rapidly deploy communications requirements.

The primary goal of the Rolatube technology is to provide the added capability and performance while reducing weight burden on the user.

PM32B / PM32MC-MK3512

Colors: Black or Multi Cam
Weight: 7 lbs

Consists of:

3 Meter Mast
Ground Radial Kit
Antenna Adapter
MP-3512/T, 30-512MHz antenna
25' TNC-TNC Cable

PM53B / PM53MC-MK3512

Colors: Black or Multi Cam
Weight: 13 lbs

Consists of:

5 Meter Mast
Ground Radial Kit
Antenna Adapter
MP-3512/T, 30-512MHz antenna
35' TNC -TNC Cable

PM73B / PM73MC-MK3512

Colors: Black or Multi Cam
Weight: 15 lbs

Consists of:

7 Meter Mast
Ground Radial Kit
Antenna Adapter
MP-3512/T, 30-512MHz antenna
35' TNC-TNC Cable

For increased LOS distance it is recommended to use a 20 watt amplifier with this system.

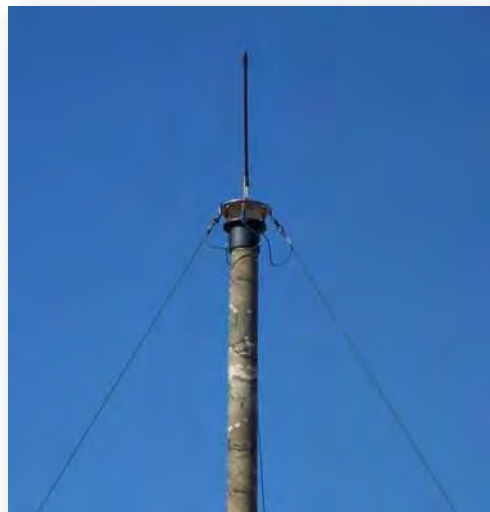


6111 Shakespeare Road, Columbia, SC 29223
TEL: 803-227-1543 FAX: 803-419-3099
www.shakespeare-military.com

Shakespeare®
MILITARY ANTENNA PRODUCTS

203000/x/x - 3M 2" Mast System
 305000/x/x - 5M 3" Mast System
 307000/x/x - 7M 3" Mast System

Shakespeare[®]
 Military Antenna Products



ELEVATE YOUR SOLUTION WITH THE ROLATUBE

The Technology and Uses: It should be noted that the technology lends itself to multiple uses within the defense sector: these include tactical mast systems, embedded antenna mast systems, motorised mast / boom systems, on / off vehicle systems, masts for wind turbines, supports for solar energy arrays, ladder and gap cross sytems, structural supports and others.



Height (meters)	Diameter (inches)	Weight	Top Load
2	2	< 3lbs	~13lbs
3	2	< 3lbs	6.6lbs
5	3	< 7lbs	7.7lbs
7	3	<10lb	~5lbs

Top Loads can be increase by doubling tubes

Various Colors:

Multi Cam, Black, Olive Green, Desert Sand

THE “WOLF” BROADBAND HF ANTENNA KIT

Shakespeare and White Wolf Systems have partnered together to provide an alternative to heavy, burdensome High Frequency (HF) communications mast/antenna solutions currently on the market. This ultra light weight system (~12lbs) allows the operator to rapidly deploy HF communications requirements without the use of a tuner or a burdensome mast.

The primary goal of the “Wolf” Broadband Antenna Kit is to provide the user added capability and performance while reducing weight burden on the user.

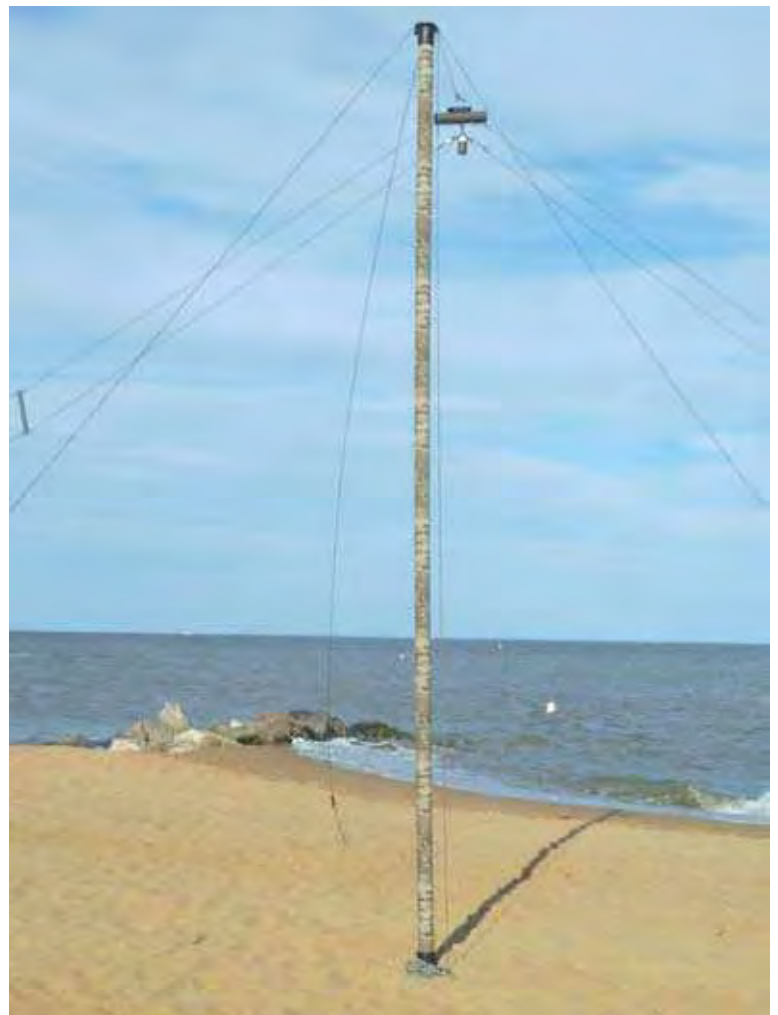


The “WOLF” Kit consists of:

- * The “WOLF” HF Broadband antenna
- * The Shakespeare Rotatube Elevation System

Capabilities:

2-30MHz
Perfect for ALE
NVIS Broadband / Wideband
Folded Dipole Design
Max VSWR <1.5:1 across the band
No Tuner Required
Deployed in < 8 Minutes



Manpack / Handheld 30-512MHz Dipole Remote Kit

Product Name: MP-3512/TGDP

The MP-3512/TGDP is a Broadband Dipole manpack / remote antenna kit that has been designed for body worn and remote configuration to allow for improved Line-of-Site (LOS) communications. The remote kit comes with a 1 meter cable for body worn configuration and a 5 meter cable and weighted throwing lanyard to increase LOS communications by raising the antenna in trees or buildings. The antenna does not require a ground plane, and has been optimized in the 30-88MHz and 225-450MHz frequency ranges.



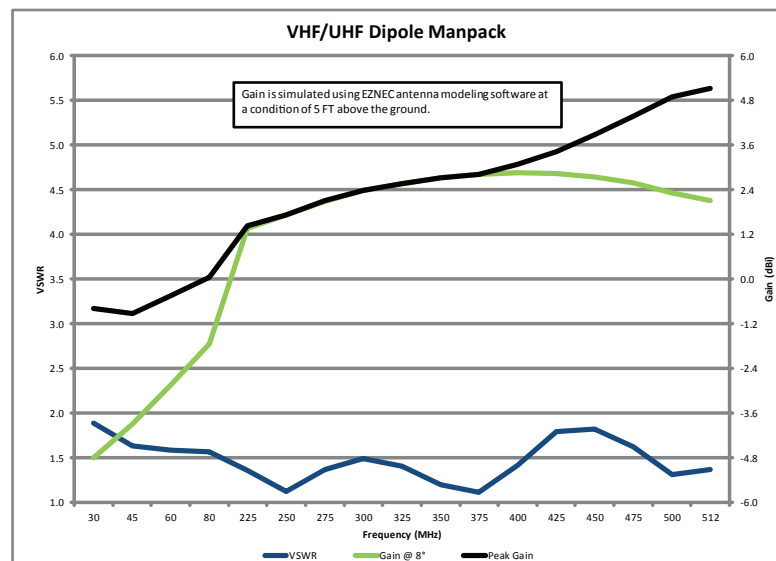
SPECIFICATIONS:

ELECTRICAL:

Frequency: 30-512MHz
Polarization: Linear
Input Impedance: 50 OHM
Power: 20 Watts
Peak Gain: -1 to +5dBi
VSWR: 2:1 or Less
Pattern: Omnidirectional

MECHANICAL:

Antenna weight: < 1lb
Kit weight: 1.17lb
Height: 33.75 Inches
Connector: TNC Male



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MILITARY ANTENNA PRODUCTS

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