



**Royal Communications
International, Inc.**

VERTICAL WIDE BAND HF Antenna

1,5 - 30 Mhz 1KW

Mod: HF-VWB1K-230/Mil-(V2-21b)

MILITARY

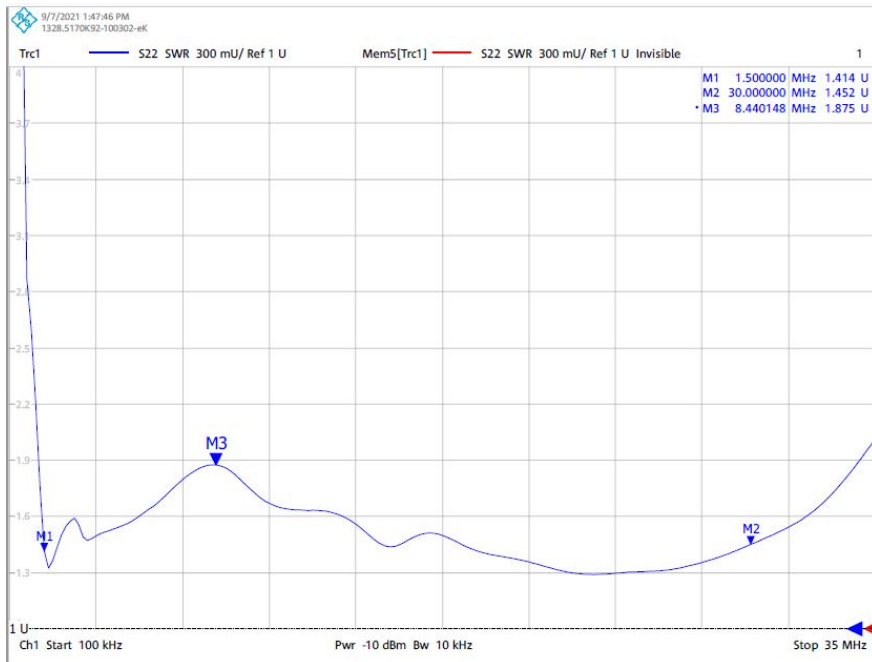
- Impedance 50 ohm
- Application: Naval, Roof & Ground
- Total Length 35' (10.5m)
- Wide band 1.5 to 30 Mhz
- Working temperature -35° + 80°C
- Base with transformer **NO ATU needed**
- Mil Specs .
- Whip & Base color NATO Grey



The New Antenna HF-VWB1K/230/Mil Version2-21b is a broadband, vertically-polarized antenna primarily designed for shipboard use, it can also be used as a fixed base station on a ground or on a roof with a suitable ground screen.

The Antenna is designed to operate with HF military single sideband communication systems in continuous duty voice and data.

The monopole is 35 feet long and is constructed in three sections, which screw together. The base of the monopole is a flanged coaxial design which bolts directly to the Antenna Base Unit.



New base having on one side a coaxial cable passage that can be installed above deck with L angle adapter Nm/N f >>>>

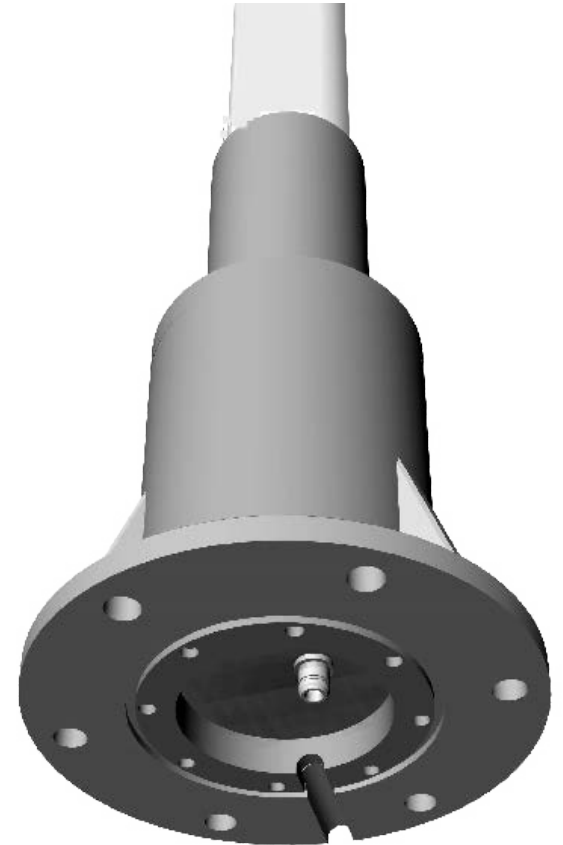
ENVIRONMENTAL SPECIFICATION

Temperature, salt, ice, sun irradiation resistance in accordance with MIL-STD 810E

Vibration resistance in accordance with MIL-STD 167-1

Shock resistance in accordance with MIL-STD 810E

Treatments and paintings in accordance with MIL-T-704





**Royal Communications
International, Inc.**

VERTICAL WIDE BAND HF Antenna

1,5 - 30 Mhz 1KW

Mod: HF-VWB1K-230/Mil-(V2-21b)

MILITARY

TECHNICAL DATA	
Length	10 mt +/-0,01 (32.8Ft)
Weight	28 Kg +/-1 (61.7Lbs)
Sections	3
Whip Bottom Diam.	70 mm+/-1mm (3"3)
Base Length	3,30 MT
Medium length	3,35 MT
Whip length	3,35 MT
Flange Diam.	265mm (10"43)
Fixing holes	6 x dia18 on dia225 mm
Structure	Epoxy fiberglass
Finishing	Polyurethane paint
ColourGrey	RAL 7001 NATO
option:	White RAL 9000
option:	Military Green
Irradiation	element material Brass
Wind resistance	55 mt/sec 200 Km/h
Twist at the base	550 NM
Working temperature	-35°+ 80°C
Frequency	1,5 -30 MHz
Impedance 50 Ohm	50 Ohm
S.W.R.	3.0:1 1,5-44 MHz
	2.0:1 1,8-30 MHz
Gain From	-8dBi to +3 dBi
Power	1000 W pep Max
Polarization	Vertical
Irradiation	360°
Connec+A3:B14tor	N female
Lightning protection Whip	DC Ground by 6+ wires of 10 mts e
Ground non conductive surface	connected with mounting bolts (supplied)
Ground on steel boat	not necessary



ENVIRONMENTAL SPECIFICATION MIL-STD-810H

Hy temperature	+49 °C	Method 501.7	Proc. II
Low temperature	-51 °C	Method 502.7	Proc. II
Hy temperature storage	+71 °C	Method 501.7	Proc. I
Low temperature storage	-51 °C	Method 501.7	Proc. I
Solar irradiation		Method 505.7	Proc. I
Solar irradiation		Method 505.7	Proc. I
Rain		Method 506.6	Proc. I
Humidity		Method 507.6	Proc. I
Salt Fog		Method 509.7	
Vibration		Method 514.8	Annex B/C/D test 1/E test 2
Icing/Frozen rain		Method 521.4	C 1.5" ice
Mechanical vibration on shipbord equip.		Method 528.1	Proc. I

