

The antenna AD-18/D-2110 is a wideband mobile VHF antenna for frequency range from 20 to 110 MHz, mainly intended for use in heavy duty mobile and jamming applications.

The antenna is composed of three main parts: antenna base, lower and upper radiating element. The antenna base is made of aluminum and durable plastic materials. Inside the base is the matching circuitry and (optional) GPS antenna. Stainless steel spring absorbs the shocks and the vibrations, in addition protects the antenna against impacts. Both radiating elements are made of composite materials enable outstanding strength and roughness even in hardest conditions of use.

The antenna base has four mounting holes equally spaced on a 4.5" (114.3 mm) circle which complies with NATO standard. Different base plate dimensions are available on request.

The antenna radiator is painted with military green (RAL-6014) two-component UV resistant paint.

<b>ELECTRICAL SPECIFICATIONS - VHF/UHF:</b>	
Frequency range	20 - 110 MHz
Impedance	50 ohms
VSWR	< 3,5
Gain	typ. -8 ..... +2 dB
Polarization	vert.
Maximum power	100 W CW
Connector	N female (BNC female optional)
<b>ELECTRICAL SPECIFICATIONS - GPS:</b>	
	(optional)
Frequency range	L1 1575.42 +/- 10 MHz
Impedance	50 ohms
VSWR	< 2
Polarization	RHC
LNA Gain / Voltage / Current	18 dB (+/- 2 dB) / 5 V / 19 mA 16 dB (+/- 2 dB) / 3.5 V / 13 mA 10 dB (+/- 2 dB) / 2 V / 7 mA
Noise fig.	<1.5 dB
Connector	SMA female
<b>MECHANICAL SPECIFICATIONS:</b>	
Design	End fed whip (VHF); patch antenna with LNA (GPS)
Height	2.795 m
Weight	3.5 kg
Max. high voltage rating	16 kV
Temperature range - in use	-50 ... +55 °C
Temperature range - in stock	-55 ... +75 °C
Wind rating	45 m/s (160 km/h)
Color	MIL Green

**VERSIONS:**

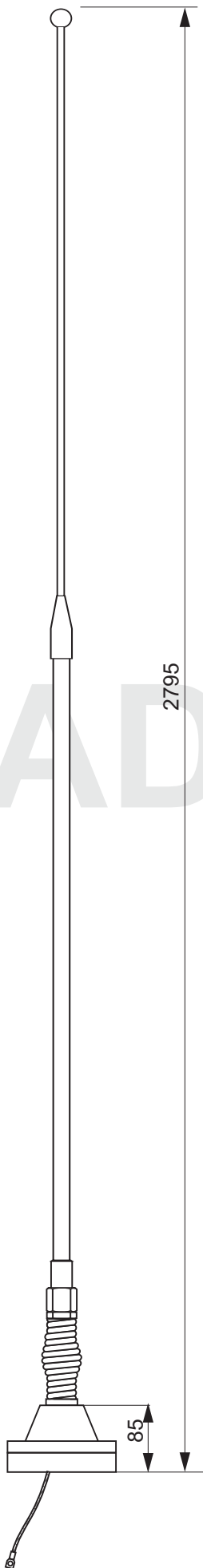
AD-18/D-2110-N: VHF antenna with N female connector

AD-18/D-2110-G-N: combined VHF and GPS (L1) antenna with N female (antenna) and SMA female (GPS) connector

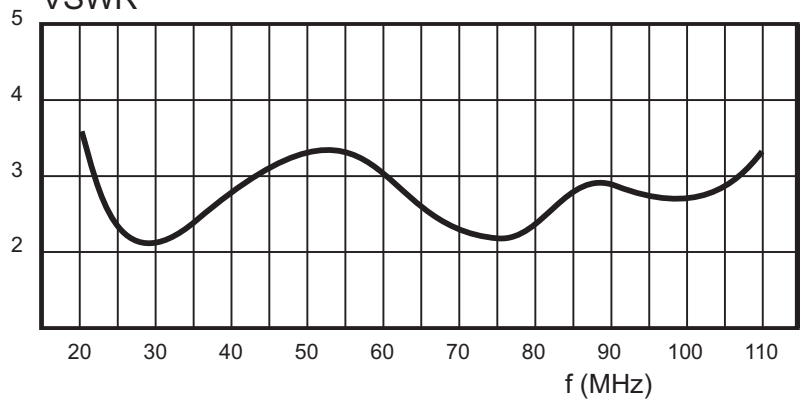
AD-18/D-2110-BNC: VHF antenna with BNC female connector

AD-18/D-2110-G-BNC: combined VHF and GPS (L1) antenna with BNC female (antenna) and SMA female (GPS) connector

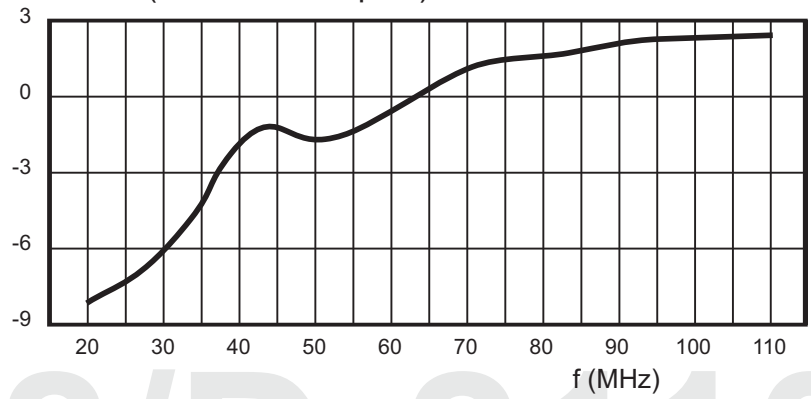




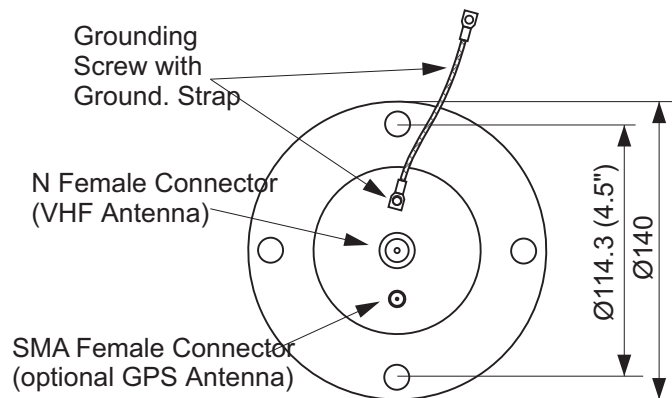
VSWR



GAIN (vs. 1/4 monopole)



AD-18/D-2110



ANTENNA BASE -  
BOTTOM VIEW