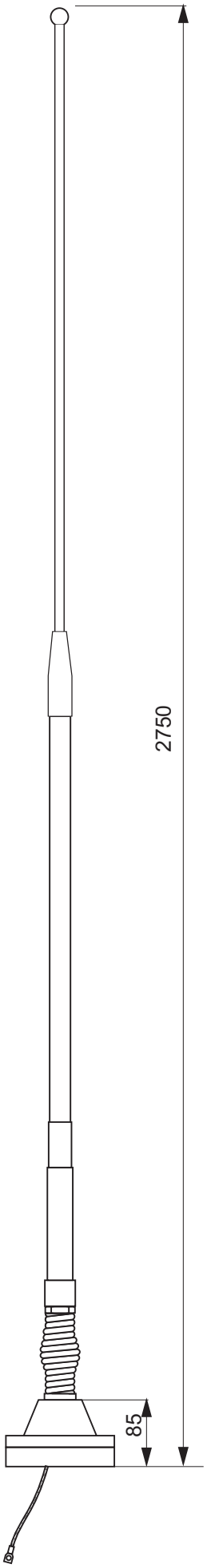
AD-18/D-3512

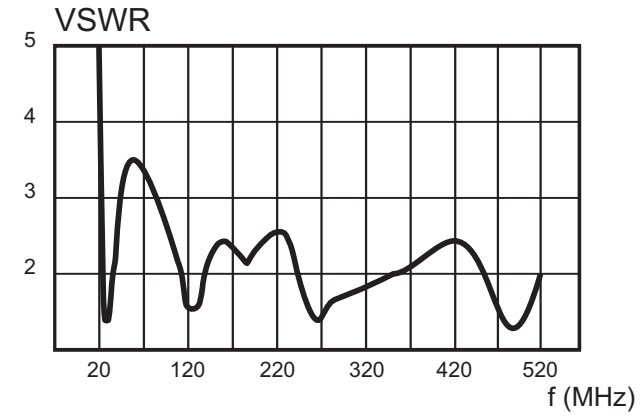
Rev. A

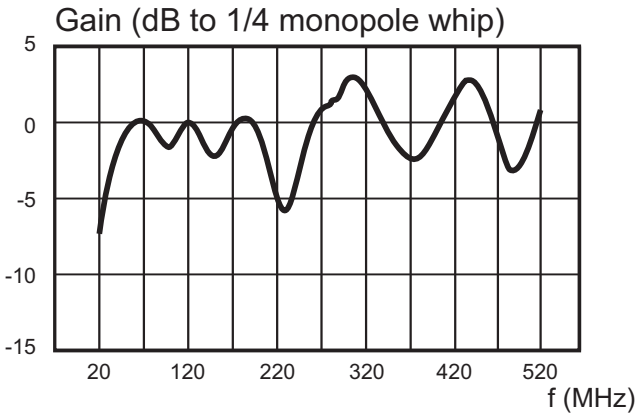
The antenna AD-18/D-3512 is a wideband mobile VHF/UHF antenna for frequency range from 25 to 512 MHz, mainly intended for use in heavy duty mobile applications.
The antenna is composed of three main parts: antenna base, lower and upper radiating element. The antenna base is made of aluminum and durable 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.

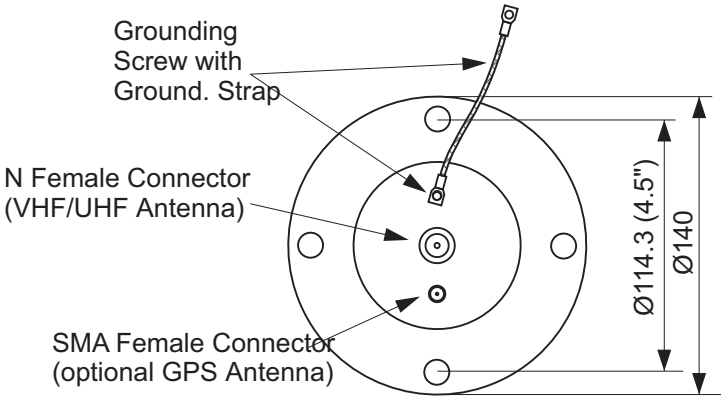
ELECTRICAL SPECIFICATIONS - VHF/UHF:	
Frequency range	25 - 512 MHz
Impedance	50 ohms
VSWR	< 3,5
Gain	typ. -6 ..... +0.5 dB(1/4 wave whip)
Polarization	vert.
Maximum power	100 W CW
Connector	N female (BNC female optional)
ELECTRICAL SPECIFICATIONS - GPS:	
Frequency range	L1 1575.42 +/- 10 MHz
Impedance	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
MECHANICAL SPECIFICATIONS:	
Design	End fed whip (VHF); Center-fed dipole (UHF); patch antenna with LNA (GPS)
Height	2.75 m
Weight	3.8 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-3512: antenna with N female connector
AD-18/D-3512-G: antenna with N female connector and active GPS antenna (L1) in the antenna base
AD-18/D-3512-BNC: antenna with BNC female connector
AD-18/D-3512-G-BNC: antenna with BNC female connectorand active GPS antenna (L1) in the antenna base









ANTENNA BASE -
BOTTOM VIEW

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Cyntony Corporation
195 Follen Road
Lexington, Massachusetts
sales@cyntony.com
781-430-0675

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