

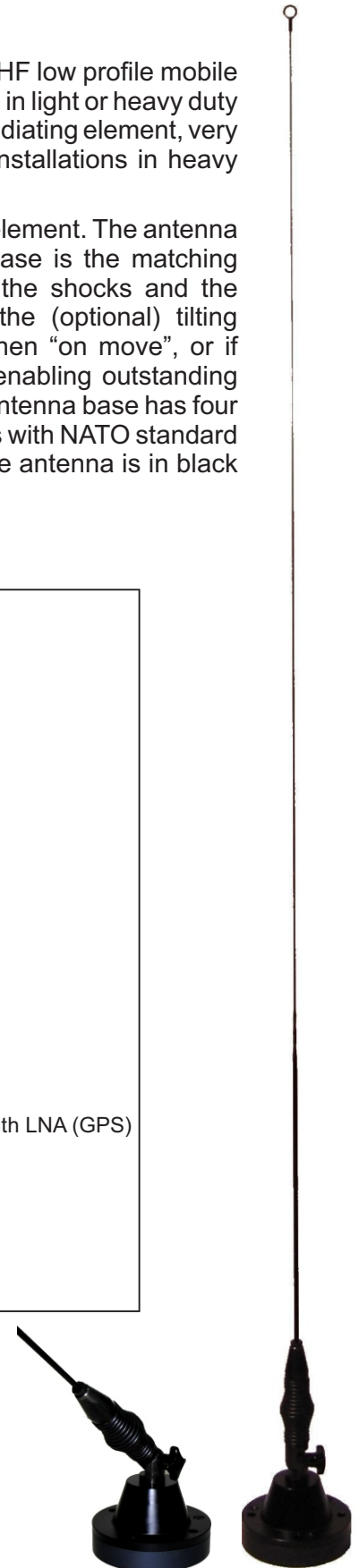
The antenna AD-27/V190-3512 is a family of wideband monopole VHF/UHF low profile mobile antennas for frequency range from 20 to 512 MHz, mainly intended for use in light or heavy duty mobile or RF jamming applications. The antenna has a very low profile of radiating element, very low visibility and very low weight, making it universal and suitable for installations in heavy trucks as well as lighter wheeled military vehicles.

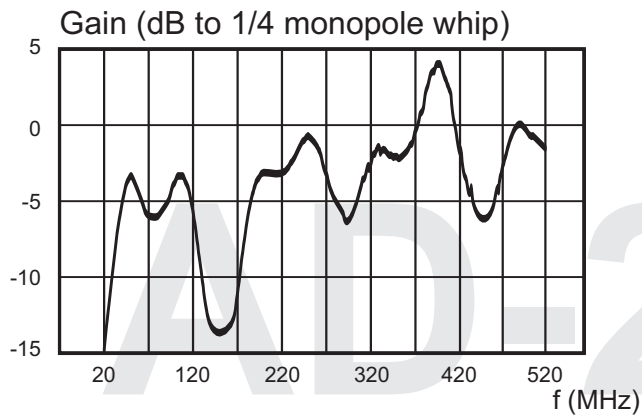
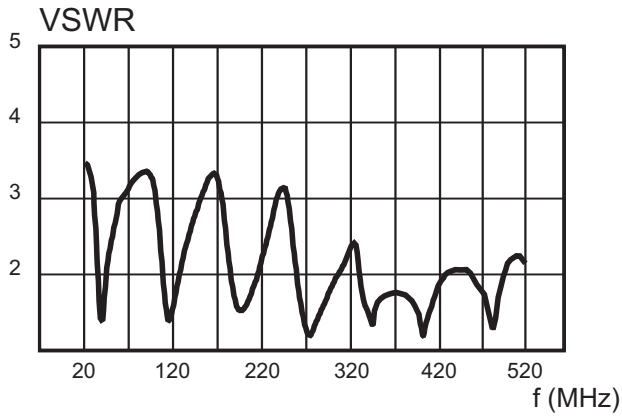
The antenna is composed of two main parts: antenna base and radiating element. The antenna base is made of aluminum and durable plastic materials. Inside the base is the matching circuitry and (optional) GPS antenna. Stainless steel spring absorbs the shocks and the vibrations, in addition protects the antenna against impacts, while the (optional) tilting mechanism enables to adjust the inclination radius of the antenna, when "on move", or if decided so. Radiating element is made of conical Stainless Steel rod enabling outstanding strength and flexibility in the most severe environmental conditions. The antenna base has four mounting holes equally spaced on a 4.5" (114.3 mm) circle which complies with NATO standard (AS-1729). Different base plate dimensions are available on request. The antenna is in black color.

ELECTRICAL SPECIFICATIONS - VHF:	
Frequency range	20 - 512 MHz
Impedance	50 ohms
VSWR	< 3,5 (see diagram)
Gain	see diagram
Polarization	vert.
Maximum power	100 W CW
Connector	N female (BNC 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/UHF); patch antenna with LNA (GPS)
Height	1.95 m
Weight	2.1 kg
Surge protection	By surge arrester built-in the antenna base
Temperature range - in use	-40 ... +55 °C
Temperature range - in stock	-55 ... +75 °C
Wind rating	55 m/s (200 km/h)
Color	Black

VERSIONS:

AD-27/V190-3512: VHF/UHF antenna
 AD-27/V190-3512T: VHF/UHF antenna with tilting mechanism
 AD-27/V190-3512G: combined VHF/UHF and GPS antenna
 AD-27/V190-3512GT: combined VHF/UHF and GPS antenna with tilting mechanism





Stainless Steel
low profile
conical radiator;
black coated
(upper diam. 2.5 mm;
lower diam. 5 mm)

1950

