

ANTENNA - WIDEBAND MOBILE VHF/UHF

SATCOM

SKU# ANT-VU-WGP

OVERVIEW

The antenna **ANT-VU-WGP** 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

Frequency range	25 - 512 MHz
Impedance	50 ohm
VSWR	< 3,5
Gain	typ. -6 +0.5 dB(1/4)
Polarization	Vertical
Maximum power	100 W CW
Connector	N female (BNC female opt.)

ELECTRICAL SPECIFICATIONS - GPS

Frequency range	L1 1575.42 +/- 10 MHz
VSWR	50 ohm
Polarization	< 2
LNA Gain / Voltage / Current Noise fig.	RHC
Noise Figure	18 dB (+/- 2 dB) / 5 V / 19 mA <1.5dB
Connector	SMA female



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MECHANICAL SPECIFICATIONS

Design	End-fed (VHF/UHF); patch antenna w. 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	RAL-6014/FED STD 595C#34088

