

COMROD APX27/GPS/SIN

VHF Manpack Whip Antenna with GPS

Application:

The APX27 is a folding whip in 9 sections for portable VHF radio sets, but with a built in Mil-Spec. GPS active receiving antenna. The antenna utilizes a new technology with copper coated epoxy fiberglass element that gives very good mechanical and electrical properties.

This version of the antenna is designed to be used together with the SINGARS radio. The antenna includes a broad band matching network. Other versions available on request.

Electrical specifications:

Frequency range	30-108 MHz
Impedance	50 Ohm, VSWR < 3.5
Power rating	5W
Loss due to carbon fibre	<1dB
Frequency range GPS	1575MHz
Power supply, GPS	5V \pm 0.5V @ <40mA, + in center
Amplifier gain GPS	26dB

Mechanical specifications:

Design	Carbon fiber elements, with brass ferrules. Rubber cord is propenoxide.
Length	2.8 m
Weight	0.95kg
Finish	Polyurethane lacquer, olive
Temperature range	-55 °C, +71 °C; -67 °F, +160 °F

The antenna is available with different lengths and number of sections. It can also be delivered with gooseneck.

Connectors:

SINGARS connector for VHF. SMA male for GPS signal. Other versions according to customer specifications. GPS element fed with separate cable that incorporates a filter to suppress VHF cable currents.

