



Application:

The VHF20110EF is a VHF vehicle antenna designed for use on all modern in-service military platforms, including armoured or soft skin, metal chassis or composite, wheeled or tracked. The antenna is monopole design so will require a suitable ground plane. Bases are available with optional L1 and L1/L2 GPS.

Electrical specification:

Frequency range	20 - 110 MHz
VSWR	3.5:1
Nominal impedance	50 ohm
Power rating	100 W cw
Gain	-6...+2dBi
Radiation pattern	Azimuth: Omnidirectional
Polarisation	Vertical
Connector VHF:	BNC
GPS:	SMA female (GPS Option)

Mechanical specification:

Design	End fed whip. Radiating elements completely enclosed in epoxy/ fibreglass laminate. Metal parts are brass and stainless steel.
Length, mounted	3.65 m
Weight	4.0 kg
Wind rating	55 m/s = 125 mph
Finish	Polyurethane lacquer, olive drab.
Temperature range	-55 °C, +55 °C; -67 °F, +131 °F

GPS Electrical Specification (Optional)

Configuration	L1 GPS	L1/L2 GPS
Frequency Band	1575.42 ± 10 MHz	L1 1575.42 ± 10 MHz L2 1227.60 ± 10 MHz
Supply Voltage	2.7-5.5V	2.7-5.5V
Pre-amplifier	26.5 dB @ 5V	26.5 dB @ 5V
Noise Figure	2.5dB	2.5dB
Supply Current	< 40mA	< 60mA
Polarisation	RHCP	RHCP
Connector	SMA female	SMA female

Base:

