UHF400512VM

UHF Broadband Antenna

4-hole rigid base (B)

Application

- 400-600 MHz (400-700 MHz with reduced VSWR)
- Dipole design, no ground plane required
- Single connector
- Designed for operation on all military & civilian platforms
- Designed for operation on shelters, mounted on masts or in other permanent installations
- Rugged high quality antenna with a durable construction
- Base options available including spring and rigid, vehicle/shelter and mast mount
- L1 and L1-L2 GPS options

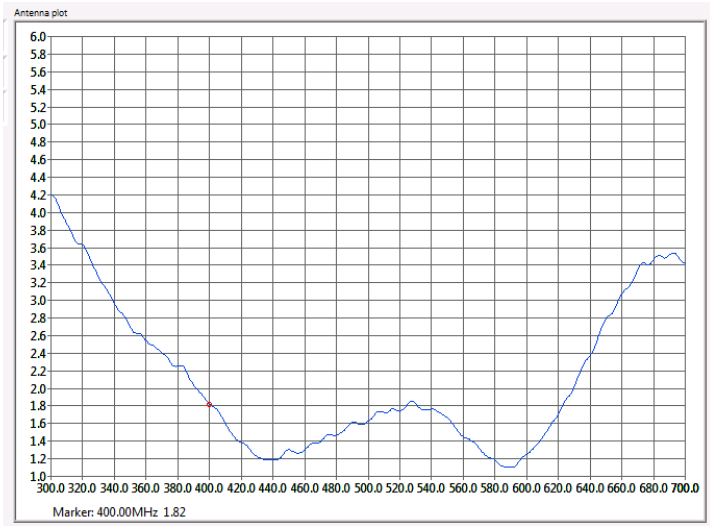
Electrical specification

Frequency range	400-700MHz
VSWR	400-600 MHz < 2.5 600-700 MHz < 3.5 (see diagram overleaf)
Impedance	50 ohm
Power rating	100 W
Gain	0.5... 2 dBi
Radiation pattern	Azimuth: Omnidirectional Vertical: Dipole pattern
Polarisation	Vertical
Connector	BNC female, others on request

Mechanical specification

Design	Centre fed dipole. Radiating element completely enclosed in epoxy/fiberglass laminate. Metal parts are brass and stainless steel.
Length	0.56m (4-hole rigid base)
Weight	2.4 kg (4-hole rigid base)
Wind rating	55 m/s = 125 mph
Finish	Polyurethane lacquer, olive drab.
Temp range	-55 °C, +71°C; -67 °F, +160 °F

VSWR



Base Options

Bases are available to suit most installations including vehicle, mast and shelter mounting. Many are available with optional L1 & L1/L2 GPS. All bases are supplied with a protective top cap. See below for some of the base options:-

A

NATO 4-hole Spring
4 x M10 or 3/8" Bolts
on 114mm (4.5in) PCD
Base diameter 140mm (5.5in)
Base height 215mm (8.5in)

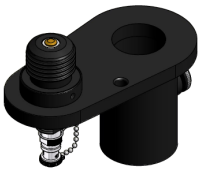
B

NATO 4-hole Rigid
4 x M10 or 3/8" Bolts
on 114mm PCD
Base diameter 140mm (5.5in)
Base height 100mm (4in)

C

NATO 4-hole Rigid - GPS
4 x M10 or 3/8" Bolts
on 114mm PCD
Base diameter 140mm (5.5in)
Base height 150mm (6in)

D



Mast Mount Bracket
40mm (1.57in) Socket
50mm (1.97in) Socket
Customer Specified

E

Mast Mount Bracket
24mm (0.94in) Spigot
40mm (1.57in) Spigot
50mm (1.97in) Spigot
Customer Specified

Base to element connector option

A special version is available with a Comrod CEF connector between the base and radiating element (UHF400512VM/CEF). This radiating element can then be used on the standard Comrod VHF30512CEF multiband antenna base.

Fig 1 - VM base connection
(used on standard version
UHF400512VM)

Fig 2 - CEF base connection
(used on special version
UHF400512VM/CEF)