



The antenna AD-18/CF-2512 is a "center-fed" type mobile VHF/UHF antenna for the frequency range from 20-512 MHz, mainly intended for use in heavy-duty mobile applications. The specific antenna "center-fed" design allows installation on various types of mounting. The antenna does not require any ground plane, so the electrical performance (GAIN and VSWR) of the antenna are always the same. 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, GPS L1 or L1/L2 antenna can be installed. Big stainless steel spring absorbs the shocks and the vibrations, also, protects the antenna against impacts. Both radiating elements are made of composite materials that enable outstanding strength and roughness even in the hardest conditions of use. The antenna base has four mounting holes equally spaced on a 4.5" (114.3 mm) circle which complies with the NATO standard. The antenna radiator is painted with military green (RAL-6014) two-component UV-resistant paint. Other colors are available on request.

ELECTRICAL SPECS.:

Frequency range 20 - 512 MHz 50 ohms VSWR 3.5 Gain See diagram Linear Vertical Radiation Pattern Maximum power 100 W CW Connector N female

ELECTRICAL SPECS - GPS:

Noise fig. 1.35 dB

Power supply | 1.35 dB | 1

Connector SMA female

MECHANICAL SPECS:

Design Dipole (VHF) & Dipole (UHF) Height 3200 mm 7 kg

Max. high voltage rating 16 kV

Wind rating 45 m/s (160 km/h)
Color MIL Green

ENVIRONMENTAL SPECS:

High Temperature - Storage
High Temperature - Operating
Low Temperature - Storage
Low temperature - Storage
Low temperature - Operating
Humidity
Solar radiation

MIL-STD-810G; Method 501.5; Proc. I; +75 °C for 96h
MIL-STD-810G; Method 502.5; Proc. I; -55 °C for 96h
MIL-STD-810G; Method 502.5; Proc. II; -40 °C for 16h
MIL-STD-810G; Method 507.5; 10 cycles of 24 h; 95%
MIL-STD-810G; Method 505.5; Proc. I; 3 cycles

Rain MIL-STD-810G; Method 506.5; Proc. III lcing/Freezing Rain MIL-STD-810G: Method 521.5

Icing/Freezing RainMIL-STD-810G; Method 521.5Sand and DustMIL-STD-810G; Method 510.5; Proc. I and IIVibrationMIL-STD 810G, Method 514.6; Proc. IShock-Transit DropMIL-STD-810G, Method 516.6, Procedure IV

Contamination by Fluids MIL-STD-810G, Method 504.1, Procedure II (Fuels, Hydraulic

Oils and Lubricating Oils acc. to the Table 504.1-l.) 20 hits on 100 mm oak beam at speed 25 km/h

EMP Protection MIL-STD 461E RS105

VERSIONS:

Oak-beam test

AD-18/CF-2512-N: VHF/UHF antenna with N female connector AD-18/CF-2512-G-N: combined VHF/UHF (N female) and GPS L1 (SMA female) antenna AD-18/CF-2512-G2-N: combined VHF/UHF (N female) and GPS L1/L2 (SMA female) antenna



