

The antenna AD-18/D-110 is a wideband mobile VHF antenna for frequency range from 30 to 110 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.

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| ELECTRICAL SPECIFICATIONS - VHF: | |
| Frequency range | 30 - 110 MHz |
| Impedance | 50 ohm |
| VSWR | < 3,5 |
| Gain | tip. -6 +0.5 dB(1/4) |
| Polarization | vert. |
| Maximum power | 100 W CW |
| Connector | N female (BNC female opt.) |
| ELECTRICAL SPECIFICATIONS - GPS: | |
| Frequency range | L1 1575.42 +/- 10 MHz |
| Impedance | 50 ohm |
| VSWR | < 2 |
| Polarization | RHC |
| LNA Gain / Voltage / Current | 18 dB (+/- 2 dB) / 5 V / 19 mA 16 dB (+/- 2 dB) / 3.5 V / 13 mA 10 dB (+/- 2 dB) / 2 V / 7 mA |
| Noise fig. | <1.5 dB |
| Connector | SMA female |
| MECHANICAL SPECIFICATIONS: | |
| Design | End-fed (VHF/UHF); patch antenna w. LNA (GPS) |
| Height | 2.795 m |
| Weight | 3.5 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 |

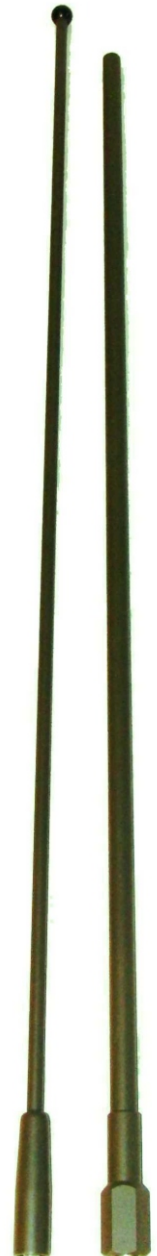
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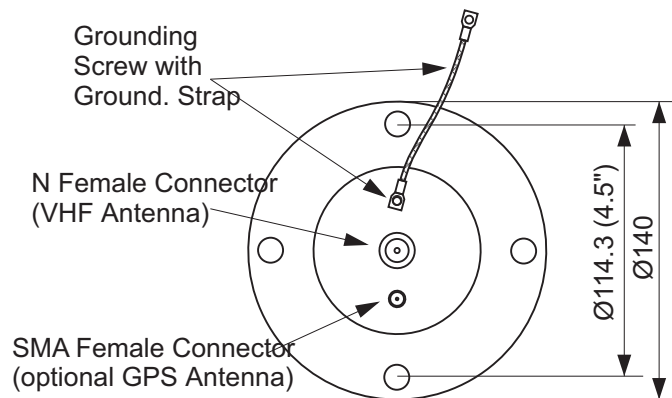
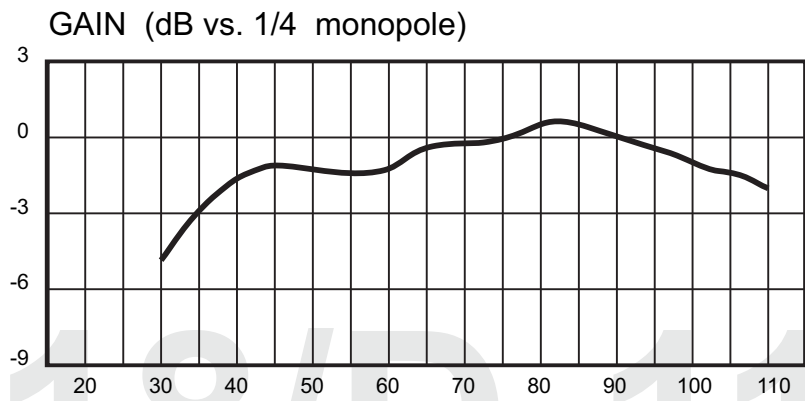
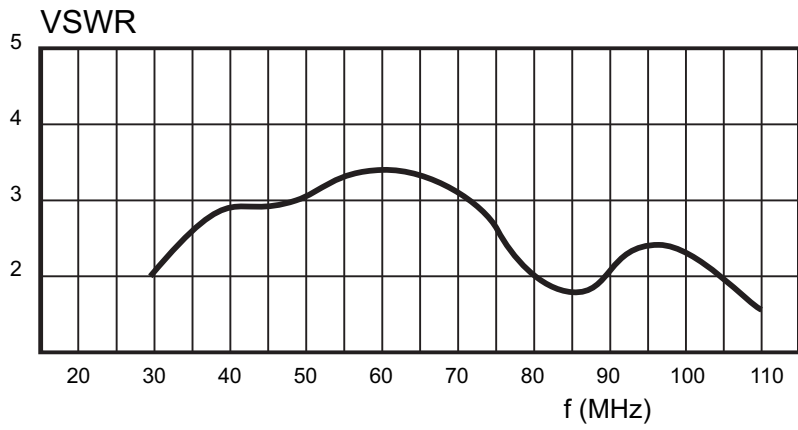
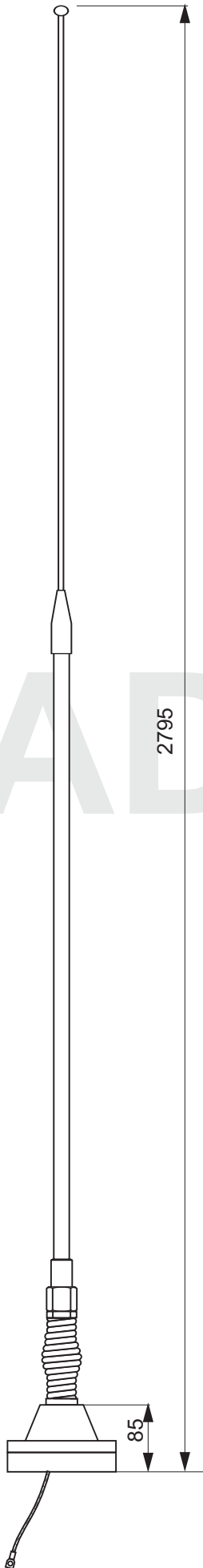
AD-18/D-110: Antenna with N female input connector (NATO STOCK NUMBER (NSN): 5985-42-000-0114

AD-18/D-110-G: Antenna with N female input connector and active GPS L1 antenna inside the antenna base.

AD-18/D-110-BNC: Antenna with BNC female input connector.

AD-18/D-110-G-BNC: Antenna with BNC female input connector and active GPS L1 antenna inside the antenna base.





ANTENNA BASE -
BOTTOM VIEW