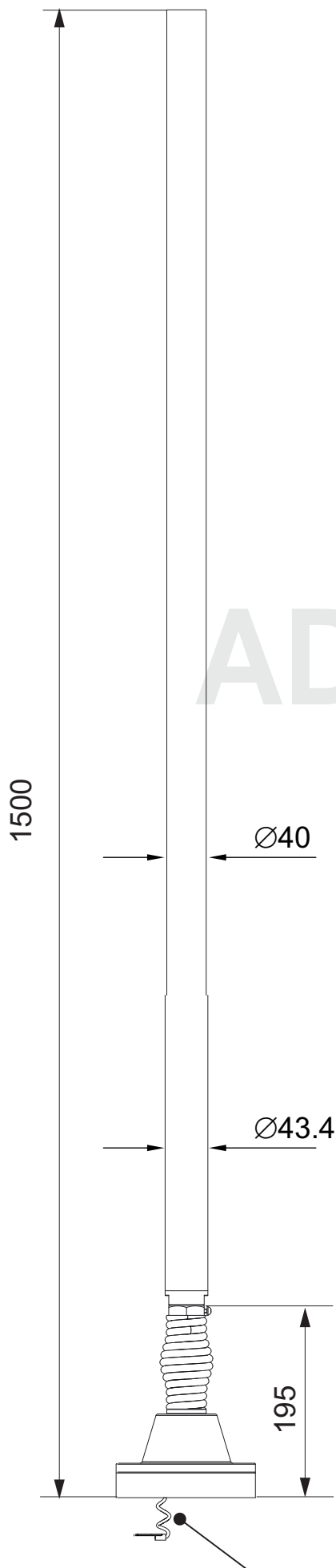


# AD-23/35-4-M

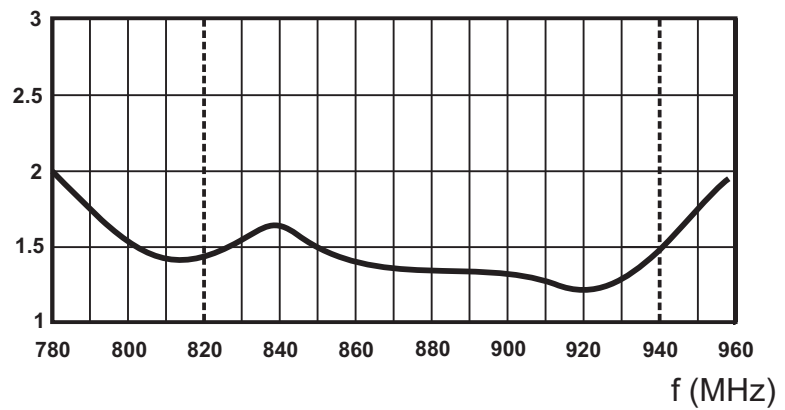
The antenna AD-23/35-4-M is a mobile collinear dipole for use on UHF frequency range from 820 to 940 Mhz, mainly intended for use in heavy duty mobile applications. The antenna is composed from two main parts: the antenna base and the radiator. The antenna base has built-in biconical spring enables resistivity against mechanical impacts. Electrically the antenna is designed as collinear dipole thus the electrical characteristics are independent from the ground or mounting place. The antenna base has an option of additional built-in GPS active antenna. Stainless steel spring absorbs the shocks and the vibrations, in addition it protects the antenna against impacts. The radiating elements are enclosed in a tube made of composite material enabling excellent mechanical and atmospheric resistance. The antenna base has four mounting holes equally spaced on a 4.5" (114.3 mm) circle which complies with NATO standard. The antenna radiator is painted with military green (RAL-6014) two-component UV resistant paint.

|                                         |                                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>ELECTRICAL SPECIFICATIONS - UHF:</b> |                                                                                                     |
| Frequency range                         | 820 - 940 MHz                                                                                       |
| Impedance                               | 50 ohms                                                                                             |
| VSWR                                    | < 2                                                                                                 |
| Gain                                    | 6 dBd / 8.15 dBi                                                                                    |
| Polarization                            | vert.                                                                                               |
| Maximum power                           | 100 W CW                                                                                            |
| Connector                               | N female (BNC female optional)                                                                      |
| <b>ELECTRICAL SPECIFICATIONS - GPS:</b> |                                                                                                     |
| Frequency range                         | L1 1575.42 +/- 10 MHz                                                                               |
| Impedance                               | 50 ohms                                                                                             |
| VSWR                                    | < 2                                                                                                 |
| Polarization                            | RHC                                                                                                 |
| LNA Gain / Voltage / Current            | 18 dB (+/- 2 dB) / 5 V / 19 mA<br>16 dB (+/- 2 dB) / 3.5 V / 13 mA<br>10 dB (+/- 2 dB) / 2 V / 7 mA |
| Noise fig.                              | <1.5 dB                                                                                             |
| Connector                               | SMA female                                                                                          |
| <b>MECHANICAL SPECIFICATIONS:</b>       |                                                                                                     |
| Design                                  | Collinear Dipole (820 - 940 MHz)                                                                    |
| Height                                  | 1500 mm                                                                                             |
| Weight                                  | 3.6 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                                                                                            |

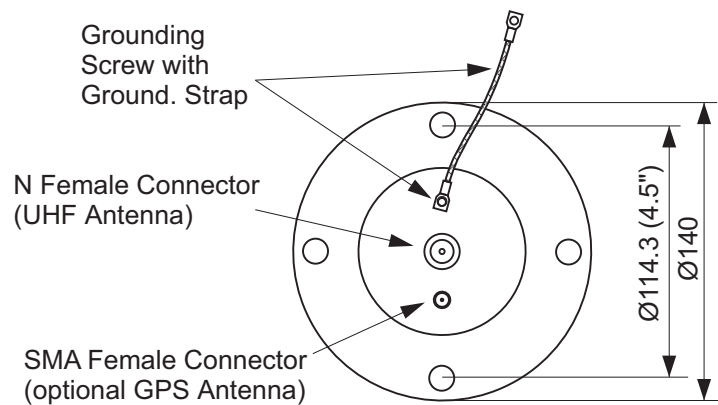
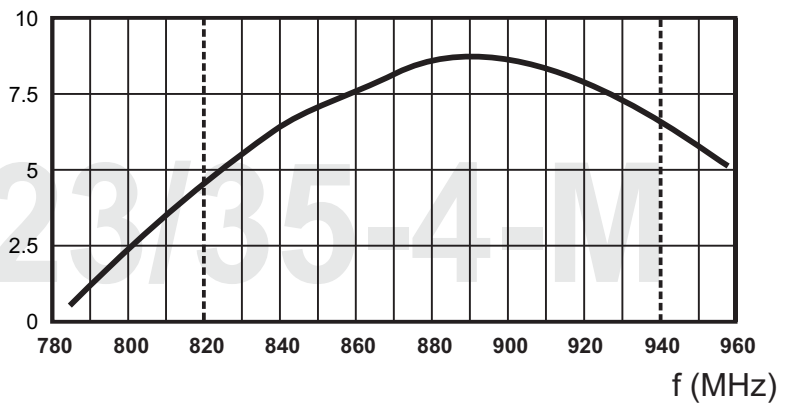




VSWR



GAIN (dBi)



ANTENNA BASE -  
BOTTOM VIEW

**AUTHORIZED USA  
DISTRIBUTION BY:**

Cyntony Corporation  
195 Follen Road  
Lexington, Massachusetts  
sales@cyntony.com  
781-430-0675

**cyntony**  
customer attuned