

AD-18/G-40600 Antenna Product Datasheet (Provisional)

Product Overview

The AD-18/G-40600 antenna is a wideband UHF/SHF antenna designed for frequency ranges from 400 to 6000 MHz. It is ideally suited for use in heavy-duty mobile or vehicle-mounted applications. The antenna is composed of two main parts: the antenna base and the radiating element.

The base is made of aluminium and durable plastic materials. Inside the base, an optional GPS antenna can be mounted with a separate SMA connector supplied on the base. A stainless steel spring absorbs shocks and vibrations. Radiating elements are made of aluminium alloy and enclosed inside an epoxy composite tube, enabling outstanding strength in even the harshest conditions. The antenna base has four mounting holes equally spaced on a 4.5" (114.3 mm) circle, complying with NATO standards. Different base plate dimensions are available on request. The antenna radiator is painted with a black PU two-component UV resistant paint.

Technical Specification

Electrical Specification – UHF

Frequency range	400 - 6000 MHz
Impedance	50 ohms
VSWR	< 2:5
Gain	-2 to +4 dBi
Polarization	Vertical
Maximum power	500 W (500 MHz) to 50 W (6 GHz) CW
Connector	N female

Mechanical Specification

Design	Dipole (center-fed) Antenna
Height	557 mm
Weight	3.3 kg
Max Radiator Diameter	78 mm
Temperature range - in use	-50 to +55 °C
Temperature range - in stock	-55 to +75 °C
Wind rating	45 m/s (160 km/h)
Colour	Black

Electrical Specification – GPS

Frequency range	L1 1575.42 +/- 10 MHz
Impedance	50 ohms
VSWR	<2
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
Polarization	RHC
Noise fig.	<1.5 dB
Connector	SMA female

VERSIONS:

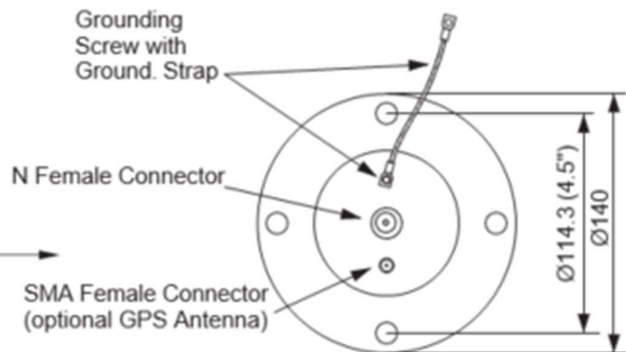
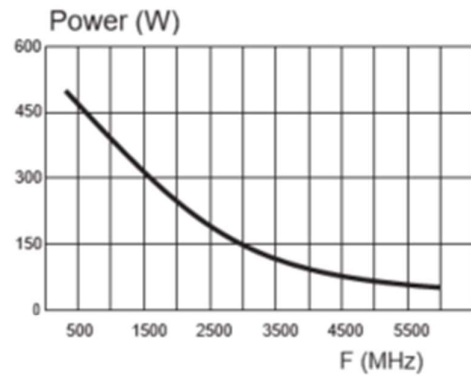
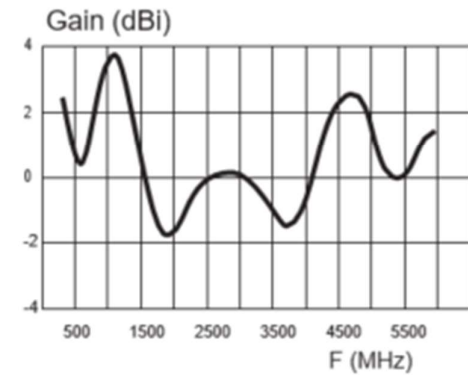
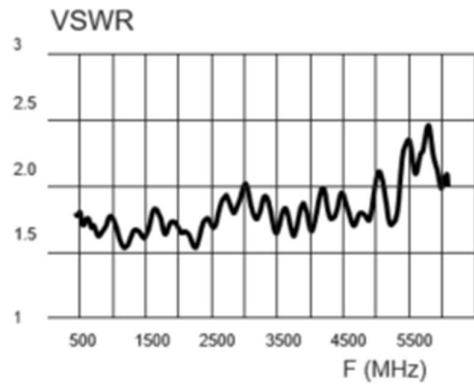
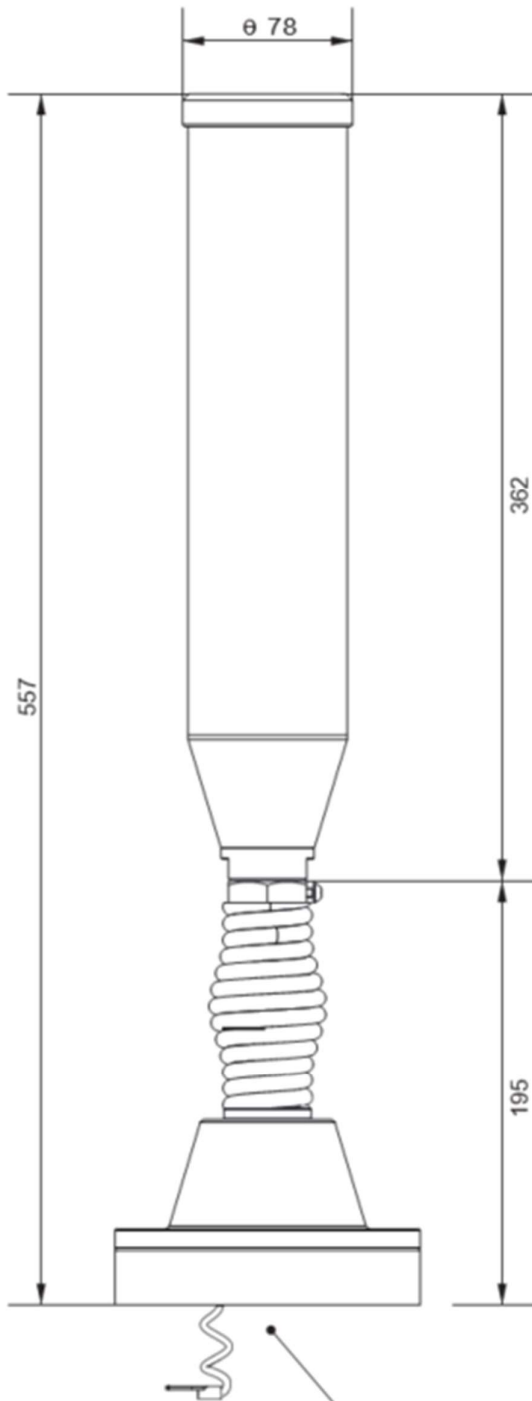
AD-18/G-40600-N: UHF Antenna
 AD-18/G-40600-G-N: combined UHF and GPS Antenna (L1 as standard)
 (L2 – please contact us for details)

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ANTENNA BASE -
BOTTOM VIEW