

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 400MHz to 6000MHz. It is ideally suitable 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 enable 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 to NATO standard. 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 SPECS - UHF	
Frequency range	400 - 6000 MHz
Impedance	50 ohm
VSWR	< 2:5
Gain	-2 to +4 dBi
Polarization	Vertical
Maximum power	500W (500MHz) to 50W (6GHz) CW
Connector	N female
MECHANICAL SPECIFICATIONS	
Design	Dipole (Centre-Fed) Antenna
Height	557 mm
Weight	3.3 kg
Max Radiator Diameter	78 mm
Temperature range - in use	-50 to +55 degC
Temperature range - in stock	-55 to +75 degC
Wind rating	45 m/s (160 km/h)
Colour	Black
ELECTRICAL SPECS - GPS	
Frequency range	L1 1575.42 +/- 10 MHz
Impedance	50 ohm
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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