Model # AS-1000-6000 1000 – 6000 MHz. 3-6 dBi. Gain

DESIGN FEATURES: Antenna Experts AS-1000-6000 cavity backed dual arm archimedean spiral antenna use 6063T6 ultra corrosion resistant architectural anodized aluminum alloy and designed to provide wideband directional transmission/reception of radio signals from 1000-6000 MHz bands. The antenna is supplied with powder coating finish to protect the antenna further from severe environmental conditions. Both left hand circular polarization (LHCP) and right hand circular polarization (RHCP) are available. The cavity backed dual arm archimedean spiral antenna is a frequency

independent antenna and this spiral antenna is weather protected suitable for outdoors use in applications requiring circularly polarized RF radiations. The AS-1000-6000 uses extended coaxial stubs technique to provide constant 3+ dBi gain over entire 1000-6000 MHz frequency band while maintaining the wider beam-width. This cavity backed spiral antenna is highly suitable for transmission, reception, monitoring, scanning, ECM, surveillance, signal intelligence (SIGINT), direction finding (DF), telemetry and airborne applications due to its ultra broad band design feature.

CONSTRUCTIONS: The spiral antenna is sealed in an aluminum cavity and is highly immune to noise. Matching circuit of spiral antenna is housed inside the main body of the antenna. A special mounting hardware to mount the spiral antenna on vertical pole having outer diameter of 25.4-51mm (1"-2"). Higher diameter mounting including any customized mounting can be supplied on request. Spiral antenna N-Female termination is fixed on top of the antenna body for easy connectivity. Other termination can be



supplied on request. The AS-1000-6000 spiral antenna is light weight, broadband and rugged spiral antennas, supplied with fiberglass plastic cover to protect the antenna from environment. The spiral antenna is designed to perform with much higher efficiency than conventional rubber duck antenna.

ELECTRICAL SPECIFICATIONS:

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Frequency Range	1000 -6000 MHz.
Gain - Typical	3-6 dBi.
Bandwidth	Entire Band
Polarization	Circular – LHCP or RHCP
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam-width –Half Power Points	55-65 Degrees
Vertical Beam-width –Half Power Points	50-60 Degrees
VSWR – Better than	2:1
RF Power Handling Capacity	75 Watts
Input Termination	N-Female or SMA-Female
MECHANICAL SPECIFICATIONS:	
Cavity Materials	6063T6 Aluminum Alloy
Gross Weight	1 Kg.
Wind Rating	200 Km/Hr.
Approx Diameter	180mm (10 Inches)
Approx Height	100mm (4 Inches)
Radiating Elements Materials	Copper Strips
Maximum mount pipe diameter	25.4-51mm (1-2 Inches)
Front Enclosure Materials	High Strength Fiber Glass
Approx Shipping Size	250x250x125mm
ENVIRONMENTAL SPECIFICATIONS:	
Operating Temperature	(-) 30 to +60 Degrees Celsius
Storage Temperature	(-) 40 to +70 Degrees Celsius
Humidity	0 to 95% RH

Note: All information contained in the datasheet is subject to change without any prior notice.