Model :	# AS-1	1000-	·3000
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DESIGN FEATURES: Antenna Experts AS-1000-3000 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 1000-3000 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-1000-3000 uses extended coaxial stubs technique to provide constant 3+ dBi gain over entire 1000-3000 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 25.4mm to 51mm(1-2 inches). 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-1000-3000 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:		
Frequency Range	1000 -3000 MHz.	
Gain - Typical	3-6 dBi.	
Bandwidth	Entire 1000-3000MHz Band	
Polarization	Circular – LHCP or RHCP	
Input Impedance	50 Ohms	
Radiation Pattern	Directional	
Horizontal Beam-width –Half Power Points	60-80 Degrees	
Vertical Beam-width –Half Power Points	60-80 Degrees	
VSWR – Better than	2:1	
RF Power Handling Capacity	150 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.

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