SMART ELECTRONICS COMMUNICATION

Delhi, INDIA

E-mail: info@secantenna.com Website: www.secantenna.com

CAVITY BACKED DUAL ARM ARCHIMEDEAN SPIRAL ANTENNAModel No: SASFrequency: 300-3000 MHzGain: 3-6 dBi

DESIGN FEATURES: The cavity backed dual arm Archimedean spiral antenna use 6063T6 ultra corrosion resistant architectural anodized aluminium alloy and designed to provide wideband directional transmission/reception of radio signals from 300-3000 MHz bands. 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 SAS (300-3000 MHz)



uses extended coaxial stubs technique to provide constant 3+ dBi gain over entire 300-3000 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 aluminium 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 is used to mount the spiral antenna on vertical pole having outer diameter of 38-50mm (1.5"-2"). Spiral antenna N-Female termination is fixed on the antenna body for easy connectivity. It is light weight, broadband and rugged spiral antennas, supplied with Fiberglass cover to protect the antenna from environment.

ELECTRICAL SPECIFICATIONS:	
Frequency Range	300-3000 MHz
Gain	3-6 dBi
Bandwidth	Entire Band
Polarization	Circular – LHCP or RHCP
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beam-width	60°-80° Degrees
Vertical Beam-width	60°-70° Degrees
VSWR	≤2.5:1
RF Power Handling Capacity	150 Watts
Input Termination	N-Female
MECHANICAL SPECIFICATIONS:	
Material	6063T6 Aluminium Alloy
Gross Weight	5 Kg
Diameter (approx.)	550 mm (21.6" inches)
Height (approx.)	250 mm (10" inches)
Wind Rating	180 Km/Hr.
Radiating Elements Material	Copper
Maximum Mounting Pipe Diameter	50 mm (2" inches)
Front Enclosure Material	Fiberglass
Shipping Size (approx.)	630 x 380 mm (24.8 x 15" inches)
ENVIRONMENTAL SPECIFICATIONS:	
Operating Temperature	(-)30 to +60 Degrees Celsius
Storage Temperature	(-)40 to +70 Degrees Celsius
Humidity	0 to 95% RH

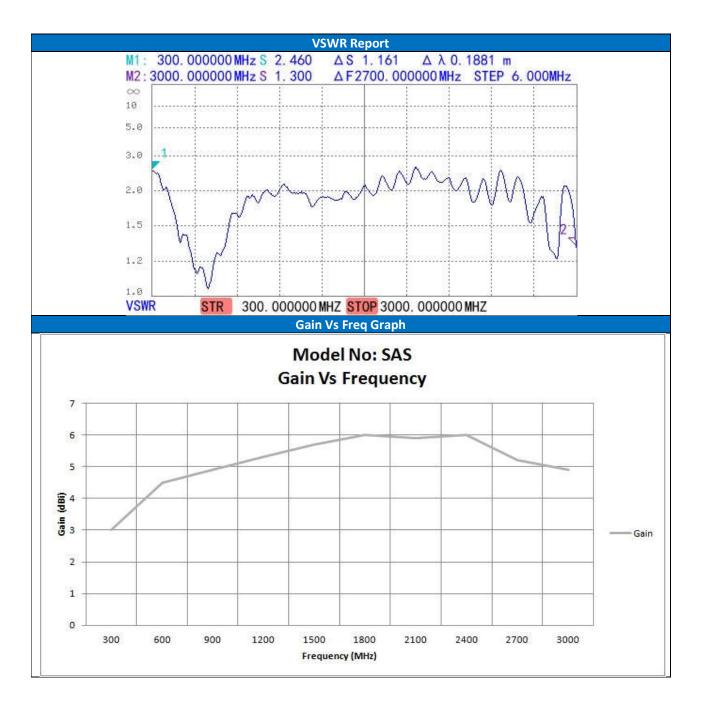
Note: All information contained in the datasheet is subject to change without any prior notice.

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Antenna Report:



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