



ANTENNA EXPERTS

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Model AH-5500

5100 – 5900 MHz.

12 dBic. Gain

CIRCULAR POLARIZED LHCP/RHCP HELICAL ANTENNA

DESIGN FEATURES: The AH-5500 uses extended stubs to provide the greater gain while maintaining the wider beam-width. Our AH series helical antennas are smaller than conventional yagi antenna. The AH-5500 Helical Antenna is supplied with a specially designed mounting arrangement for steering the antenna in both planes, over 360 Degrees in Azimuth and 90 Degrees in Elevation for terrestrial and satellite links.



CONSTRUCTIONS: The AH-5500, like all our AH series helical antennas, utilizes circular polarization to minimize the effects of multipath interference. Both Right Hand Circular Polarized (RHCP) and Left Hand Circular Polarized (LHCP) helical antenna models are available. The AH-5500 Helical Antenna is light weight, broadband and rugged helical antennas, supplied with fiberglass radome to protect the antenna from environment. Cylindrical enclosure is used for low wind loading and for minimal effect of ice formation on the helical antenna operation as well as providing an aesthetically pleasing appearance.

For higher gain requirement, the Helical antenna can be supplied in DUAL stacked or QUAD stacked arrays with suitable power splitter/combiner cable harness.

ELECTRICAL SPECIFICATIONS:

Frequency Range	5100 - 5900 MHz.
Gain	12 dBic.
Bandwidth	Entire Band
Polarization	Circular LHCP or RHCP
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Horizontal Beam-width –Half Power Points	45 Degrees.
Front to Back Ratio	18 dB.
VSWR	1.5 : 1
RF Power Handling Capacity	150 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Weight	0.7 Kg.
Wind Rating	200 Km/Hr.
Overall Length	160 mm
Shipping Length	190 mm
Radiating Materials	Copper
Enclosure diameter	25 mm
Enclosure Materials	Fiber Glass
Enclosure diameters	25 mm
Maximum Mount Pipe Diameter	25.4 mm (1 Inch)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-) 30 to +70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95% RH