ANTENNA EXPERTS

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Model AH-1117-16 1100 – 1700 MHz. 16 dBic. Gain

CIRCULAR POLARIZED HELICAL ANTENNA FOR GPS / DRONE JAMMER

DESIGN FEATURES: The AH-1117-16 uses extended stubs to provide the greater gain while maintaining the wider beam-width and designed to provide wideband directional transmission/reception of radio signals from 1100-1700 MHz bands including GPS L1, GPS L2, L5, L6 bands. This low-profile antennas use Circular Polarization Antenna Technology (RHCP or LHCP) - which delivers better penetration through obstruction and interference. This commercial grade antenna provides superior performance as compare to significantly larger and more expensive products. Our AH series helical antennas are smaller than conventional yagi antenna. The AH-1117-16 Helical Antenna is supplied with a specially designed mounting arrangement for steering the antenna over 360 Degrees in Azimuth direction and 90 degrees in elevation.

CONSTRUCTIONS: The AH-1117-16, like all our AH series helical antennas, utilizes circular polarization to minimize the effects of multipath interference. The AH-1117-16 Helical Antenna is light weight, broadband and rugged helical antennas, supplied with ABS 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. Both LHCP and RHCP version are available. AH-1117-16-RHCP is RHCP version and AH-1117-16-LHCP is a LHCP version.

ELECTRICAL SPECIFICATIONS:	
Frequency Range	1100 - 1700 MHz.
Gain - Typical	16 dBic.
Bandwidth	1.1 – 1.7 GHz.
Polarization	Circular – LHCP or RHCP
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Horizontal Beam-width –Half Power Points	28+/-2 Degrees Typical
Front to Back Ratio	30 +/-2 dB. Typical
VSWR – Better Than	2 : 1
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female
MECHANICAL SPECIFICATIONS:	
Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	< 2.5 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1200 mm
Shipping Length	1250 mm
Radiating Materials	High Quality Copper
Enclosure Materials	High Strength ABS
Enclosure Length	1100 mm
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Elevation Tilt Mechanism	0-90 Degrees
ENVIRONMENTAL SPECIFICATIONS:	
Operating Temperature	(-) 30 to +70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Please contact for further technical documentations like radiation patterns and VSWR curve.