



# ANTENNA EXPERTS

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Model AH-1417-16

1400 – 1700 MHz.

16 dBic. Gain

## CIRCULAR POLARIZED HELICAL ANTENNA FOR GPS / DRONE JAMMER

**DESIGN FEATURES:** The AH-1417-16 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 1400-1700 MHz bands including various GPS 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-1417-16 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-1417-16, like all our AH series helical antennas, utilizes circular polarization to minimize the effects of multipath interference. The AH-1417-16 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-1417-16-RHCP is RHCP version and AH-1417-16-LHCP is a LHCP version.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	1400 - 1700 MHz.
Gain - Typical	16 dBic.
Bandwidth	1.4 – 1.7 GHz.
Polarization	Circular – LHCP or RHCP
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Horizontal Beam-width –Half Power Points	30+/-2 Degrees Typical
Front to Back Ratio	18 dB. Typical
VSWR – Better Than	1.5:1
RF Power Handling Capacity	150 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	900 mm
Shipping Length	1100 mm
Radiating Materials	High Quality Copper
Enclosure Materials	High Strength ABS
Finish/Color	Olive Green or Customized
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 and image.

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