



ANTENNA EXPERTS

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Model AH-1013-12 1050 – 1300 MHz. 12 dBic. Gain

CIRCULAR POLARIZED LHCP/RHCP HELICAL ANTENNA

DESIGN FEATURES: The AH-1013-12 uses extended stubs to provide the greater gain while maintaining the wider beam-width. This low-profile antennas use Circular Polarization Antenna Technology - 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-1013-13 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-1013-12, 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-1013-12 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.



ELECTRICAL SPECIFICATIONS:

Frequency Range	1050 - 1300 MHz.
Gain @ Mid Band	12 dBic.
Bandwidth	250 MHz.
Polarization	Circular - LHCP or RHCP
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Horizontal Beam-width –Half Power Points	55 Degrees Typical
Vertical Beam-width –Half Power Points	45 Degrees Typical
Front to Back Ratio	17 dB. Typical
VSWR – Better Than	1.5 : 1
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Mounting Hardware	Marine Grade Stainless Steel
Weight	3.0 Kg.
Wind Rating	200 Km/Hr.
Overall Length	650 mm
Shipping Length	700 mm
Radiating Materials	Copper
Enclosure Materials	High Strength ABS
Enclosure Length	550 mm
Maximum Mount Pipe Diameter	52 mm (2 Inches)

ENVIRONMENTAL SPECIFICATIONS:

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

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