ANTENNA EXPERTS

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Model # QHA-1216 1200 – 1600 MHz. 2 dBic Gain

Quadrifilar Helix RHCP Omni or LHCP QHA Omni Antenna

DESIGN FEATURES: **QHA-1216 broadband hemi omni-directional LHCP hemi omni quadrifilar helix or RHCP hemi omni quadrifilar helix antenna is rugged all weather model, enclosed in a ABS radome, uses high class copper alloy and does not require any field tuning or adjustments. The compact size of LHCP or RHCP omni-directional quadrifilar helix antenna allows easy handling, shipping and highly suitable for receiving, transmitting, scanning, monitoring, surveillance and jamming applications for lower L band including GPS L2 band and for upper L band including GPS L1 band without having the requirement of multiple antennas. The antenna is also highly suitable for Ground to Air communication/jamming application due to its wide elevation beamwidth with omni-directional properties. Antenna termination fitted just below the NATO mounting flange for complete weather protection. Other type of mounting configuration can be supplied on request.**

CONSTRUCTIONS: **The QHA-1216 LHCP omni or RHCP quadrifilar helix omni antenna is consisting of two (pair) vertical loop radiating elements at right angles to each other, twisted into a helix turns vertically and enclosed in ABS radome. The special "Teflon Dielectric Transmission Line" technique is used to handle high power handling capacity allowing smooth VSWR and typical 2dBi. gain over the entire 1200-1600 MHz. frequency band. The UV resistant ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The stainless steel mounting hardware is supplied with the antenna. Cylindrical shell/enclosure is used for low wind loading and for minimal effect of ice formation on the antenna operation as well as providing an aesthetically pleasing appearance. Other mounting configuration can also be supplied on request.**

ELECTRICAL SPECIFICATIONS:	
Frequency Range	1200 -1600 MHz.
Gain	2 dBic Typical
Bandwidth	1.2-1.6 GHz
Polarization	Circular – RHCP or LHCP
Input Impedance	50 Ohms
Azimuth Radiation Pattern - Typical	Omni-directional
Elevation Radiation Pattern - Typical	Equivalent to Half Wave Dipole
Vertical Beam-width –Half Power Points.	120 Degrees
VSWR – Better Than	2:1
RF Power Handling Capacity	500 Watts
Input Termination	N-Female
MECHANICAL SPECIFICATIONS:	
Materials	6063T6 Aluminum, Copper & ABS
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	200 mm
Shipping Length	250 mm
Mounting Type	NATO 4 Holes or Customized
Enclosure Material	UV Resistant ABS
Enclosure Outer Diameter	110 mm
Gross Weight	1 Kg.
ENVIRONMENTAL SPECIFICATIONS:	
Operating Temperature	(-) 30 to +70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95% RH