



VHF High Gain ATC Omnidirectional Antenna

AC5-127

118-137 MHz

5 dBi Gain

Aerodynamic Engineering: The **AC5-127 Omni-directional VHF Aviation Antenna** is a rugged, high-gain solution engineered for mission-critical ATC ground-to-air and ground-to-ground communications. Constructed from premium **6063T6 architectural aluminum alloy** and high-grade brass, the radiator is housed in a heavy-duty **fiberglass radome** that ensures maximum RF transparency and structural integrity against extreme wind loads. Its streamlined, cylindrical profile is specifically designed for **low wind loading** and ice-mitigation, while the internal cable routing provides total weatherproofing for antenna terminations. This factory-tuned, "plug-and-play" design eliminates the need for field adjustments, making it a highly efficient alternative to complex multi-antenna arrays at air traffic control sites.

Precision Signal: Designed for the **117.975-137 MHz frequency band**, this antenna utilizes a vertical stack of large-diameter radiating elements to maintain a constant **5+dBi gain**. The integration of advanced "**Impedance Matching**" technology ensures a stable **VSWR** (Voltage Standing Wave Ratio) and superior signal consistency across the entire spectrum. For optimized logistics, the antenna features an eight-element removable ground plane system that can be quickly assembled using standard hand tools. This portable yet durable construction, complemented by **marine-grade stainless steel** mounting hardware, delivers high-performance reliability for maritime and terrestrial aviation infrastructure.

VHF High Gain
Omni Antenna

Model #

AC5-127

Mfd. By

ANTENNA

EXPERTS



Electrical Specifications:

Frequency Range	117.975 - 137 MHz.
Gain	5.15 dBi. (3 dBd)
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width –Half Power Points.	40 Degrees
VSWR – Better than	2:1
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female

Mechanical Specifications:

Materials	Brass & 6063T6 Aluminum
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	180 Km/Hr.
Overall Length	3.10 Meters
Shipping Length	3.15 Meters
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Enclosure Materials	Fiberglass Tube
Gross Weight	14 Kgs.

Environmental Specifications:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 100% RH

Please contact us for further information like Azimuth & Elevation radiation patterns, Image and frequency Vs VSWR graph.
Note: All information contained in the datasheet is subject to change without any prior notice.