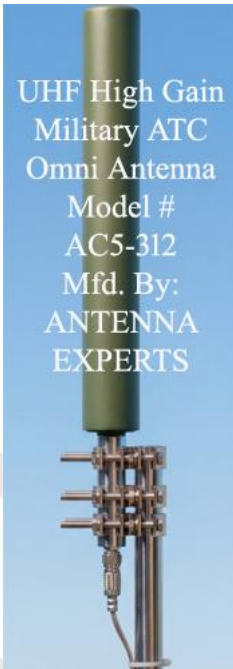


	UHF High Gain Military ATC Omni Antenna		
	AC5-312	225-400 MHz	5.15 dBi Gain

High-Gain Broadband Performance: The **AC5-312** is a high-gain, **omni-directional UHF aviation band antenna** engineered for seamless ground-to-ground and ground-to-air military and ATC communication. Operating across the complete **225–400 MHz military ATC frequency spectrum**, this broadband antenna features vertically stacked, large-diameter radiating elements utilizing a specialized **impedance matching technique**. This advanced RF engineering delivers an ultra-smooth **VSWR** and high-gain efficiency without requiring any field tuning, adjustments, or external ground planes. Constructed from premium **6063T6 architectural aluminum alloy** and shipped fully assembled with marine-grade stainless steel mounting brackets, its rugged design replaces the need for multiple antennas in fixed station, shipboard, and tactical mobile applications.

Ruggedized Aerospace Enclosure: Engineered to survive extreme environmental conditions, the vertically polarized antenna is entirely enclosed in a high-tech, **UV-resistant ABS radome**. The heavy-duty, **cylindrical enclosure** is optimized for low wind loading, high structural load resilience, and minimal ice accumulation, guaranteeing uninterrupted RF signal transparency in the harshest climates. For absolute weatherproofing, an **N-Female termination** is securely integrated inside the bottom mounting pipe. Featuring a compact 5-foot shipping length for streamlined logistics, the antenna comes standard in a military-spec olive green finish, with customizable radome colors available to meet specific architectural or deployment requirements.



Electrical Specifications

Frequency Range	225 - 400 MHz.
Gain - Typical	5.15 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width –Half Power Points.	36 Degrees
VSWR – Better Than	2.5:1
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female

Mechanical Specifications

Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	1500 mm
Shipping Length	1600 mm
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Materials	High Strength ABS Tube
Gross Weight with Brackets	7.0 Kgs.
Corrosive Treatment	Epoxy Based Powder Coated
Finishing	PU Based Olive Green

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.