



C Band Omni Antenna for ECM, RCIED & Counter-UAV

JC7-5159

5100-5900 MHz

7 dBi Gain

High-Gain C-Band Electronic Countermeasures and C-UAV Electronic Warfare: The **Model JC7-5159** is a high-performance **vehicular omni collinear antenna** specifically engineered for rugged electronic warfare and signal suppression across the **5100–5900 MHz** C-band spectrum. Operating with an optimized 7 dBi mid-band peak gain and a narrow 28-degree vertical beamwidth, this factory-tuned unit acts as a seamless **broadband RCIED jammer antenna** that requires no mechanical field adjustments. Internally, the device houses large-diameter brass radiating elements that are stacked vertically and fed precisely in-phase to eliminate signal degradation. By integrating an advanced **coaxial stub and spark gap technique**, the system maintains a highly stable voltage standing wave ratio (VSWR) across the entire band while managing a continuous RF power handling capacity of **200 Watts**, providing defense forces with an ideal front-line tool for tactical multi-band electronic countermeasures.

MIL-SPEC Vehicular Integration and Armored Survivability: Built to endure intense physical stress in volatile operational theaters, the ultra-lightweight 750-gram JC7-5159 is protected inside a **MIL-STD-810G compliant fiberglass radome** finished in flat military olive green. The compact 350 mm cylindrical body minimizes wind resistance up to **200 Km/Hr** and mitigates heavy ice build-up during mobile maneuvers. The structural architecture utilizes a robust 6063T6 aluminum alloy support pipe alongside marine-grade stainless steel fasteners to guarantee absolute corrosion resistance. Designed for flexible vehicle side-mounting or direct top integration, the antenna features a standard **NATO 4-hole flange vehicular mount** with an optional biconical spring upgrade (Model JCS7-5159) for obstacle deflection, while its weather-sealed N-Female termination remains sheltered underneath the base flange for complete environmental isolation.

Vehicle Mount
Omni Antenna
With NATO
4 Hole Flange
Model #
JC7-5159
Mfd. By:
ANTENNA
EXPERTS



Electrical Specifications:

Frequency Range	5100 - 5900 MHz.
Gain - Typical	5/7/5 dBi
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-Directional
Vertical Beam-width –Half Power Points.	28 Degrees Typical
VSWR – Better Than	2.5:1
RF Power Handling Capacity	200 Watts.
Input Termination	N-Female

Mechanical Specifications:

Materials Used	Brass, Aluminum & ABS Tubes
Mounting Hardware -Materials	High Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	350 mm
Shipping Length	400 mm
Mounting Type	NATO Flange or Customized
Finial Finish/Color	Military Green or Customized
Enclosure Materials	UV Resistant ABS Tube
Gross Weight	750 Grams

Environmental Specifications:

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