



Ultra Wide Band Jammer Antenna for Vehicular

JCD-500-2500

500-2500 MHz

2 dBi Gain

Ultra-Wideband Electronic Warfare: The **JCD-500-2500** is a high-performance, **broadband RCIED jammer antenna** specifically engineered for tactical vehicular and military applications. Operating across an ultra-wide **500–2500 MHz frequency spectrum**, this omni-directional **coaxial dipole antenna** delivers continuous **2 dBi gain** for vertically polarized waves without requiring any field tuning or mechanical adjustments. Its advanced RF design features vertically stacked, high-diameter radiating elements fully welded to eliminate **RF inter-modulation**, alongside high skin current suppression to guarantee an exceptionally smooth **VSWR** across the entire band. This sturdy, wideband capability makes it an ideal single-antenna solution for counter-RCIED jamming, fixed-station security, shipboard deployment, and high-speed tactical mobile communications.

Tactical Military Enclosure: Built to withstand severe MIL-SPEC environmental conditions, the antenna is fully integrated into a ruggedized, **UV-resistant ABS radome**. This high-strength, **cylindrical enclosure** features exceptional **RF signal transparency**, low wind loading, and minimized ice-formation vulnerability for uncompromised survivability. For seamless tactical integration, the base is equipped with a standard **NATO 4-hole mounting flange**, allowing direct installation onto vehicle antenna adapter base plates. Complete weather protection is achieved through a bottom-exiting **N-Female termination** sealed within the mounting pipe. Finished in a standard military olive green, the JCD-500-2500 is supplied with marine-grade **type 316 stainless steel brackets**, with optional adapter plates and customized housing colors available upon request.

Vehicle Mount
Omni Antenna
with NATO 4
Holes & Spring
Model #
JCD-500-3000
Mfd. By:
ANTENNA
EXPERTS



Electrical Specifications:

Frequency Range	500 - 2500 MHz.
Gain - Typical	2 dBi. Typical
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width –Half Power Points.	78 Degrees
VSWR – Better Than	2.5:1
RF Power Handling Capacity	250 Watts (Higher Optional)
Input Termination	N-Female

Mechanical Specifications:

Materials Used	Brass, Aluminum & ABS Tubes
Mounting Hardware -Materials	High Grade Stainless Steel
Wind Rating	150 Km/Hr.
Overall Length	420 mm (16.55 Inches)
Shipping Length	450 mm (17.9 Inches)
Mounting Type	NATO Flange or Customized
Finial Finish/Color	Military Green or Customized
Enclosure Materials	UV Resistant ABS Tube
Gross Weight	2.0 Kgs.

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.