



ANTENNA EXPERTS

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Model # BVM-500-6000 500 – 6000 MHz. 2 to 0 dBi Gain

Broadband Omni-directional Antenna for Manpack or Vehicular Application

DESIGN FEATURES: BVM-500-6000 broadband omni-directional vehicle mount coaxial dipole antenna is rugged all weather model, enclosed in a ABS radome, uses high class aluminum alloy and does not require any field tuning or adjustments. The compact size of omni-directional coaxial dipole antenna allows easy handling, shipping and highly suitable for receiving, transmitting, scanning, monitoring, surveillance and jamming applications without having the requirement of multiple antennas. Antenna termination and feed cable lie enclosed inside the mounting pipe for complete weather protection.

CONSTRUCTIONS: The vehicle mount coaxial dipole antenna is consisting of large diameter radiating elements stacked vertically and enclosed in ABS radome. The special “Choke and Spark Gap” technique is used for smooth VSWR and typical 2 to 0 dBi. gain over the entire 500-6000 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.

MOUNTING OPTION: This vehicle mount broadband antenna can be supplied with standard NATO 4 holes pattern with or without spring. The mounting hardware is made of marine grade stainless steel. Customized mounting arrangements like mounting directly on equipment for manpack application can also be supplied on request.

ELECTRICAL SPECIFICATIONS:

Frequency Range	500 - 6000 MHz.
Gain	2 to 0 dBi. Typical
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
-3 dB. Vertical Beam-width.	78 Degrees
VSWR – Better Than	2.5:1
RF Power Handling Capacity	150 Watts
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Materials	6063T6 Aluminum & ABS
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	350 mm for NATO 4 Holes
Mounting Type	Manpack or NATO 4 Holes
Enclosure Material	UV Resistant ABS
Enclosure Outer Diameter	75 mm
Enclosure Length	250 mm
Gross Weight	2.0 Kg.

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 Drawing, VSWR Chart & Gain Chart of antenna.

Note: All information contained in the datasheet is subject to change without any prior notice.