

BROADBAND VEHICLE MOUNT ANTENNA

| | | |
|----------------------|---------------|-----------------|
| Model # BVM-100-1000 | 100-1000 MHz. | 2 to 0 dBi Gain |
|----------------------|---------------|-----------------|

DESIGN FEATURES: BVM-100-1000 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 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 constant 2 to 0dBi. gain over the entire 100-1000 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.

MOUNTING PROCEDURES: This vehicle mount antenna can be supplied with standard side pole mounting arrangements, roof top hole mounting arrangements or NATO 4 holes pattern. Customized mounting arrangements can also be supplied on request.

ELECTRICAL SPECIFICATIONS:

| | |
|---|------------------|
| Frequency Range | 100 - 1000 MHz. |
| Gain | 2 to 0dBi. |
| Bandwidth | Entire Band |
| Polarization | Vertical |
| Input Impedance | 50 Ohms |
| Radiation Pattern | Omni-directional |
| Vertical Beam-width – Half Power Points | 76 Degrees |
| VSWR | 1:2.5 |
| RF Power Handling Capacity | 500 Watts |
| Input Termination | N-Female |

MECHANICAL SPECIFICATIONS:

| | |
|------------------------------|------------------|
| Materials | All Aluminum |
| Mounting Hardware -Materials | Stainless Steel |
| Wind Rating | 180 Km/Hr. |
| Overall Length | 1.3 Meters |
| Shipping Length | 1.3 Meters |
| Support Pipe Outer Diameter | 38 mm |
| Maximum Mount Pipe Diameter | 51 mm (2 Inches) |
| Enclosure Material | UV Resistant ABS |
| Enclosure Outer Diameter | 160 mm |
| Enclosure Length | 1200 mm |
| Gross Weight | 10 Kgs. |

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.