

ANTENNA EXPERTS

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Model # BVM-30-88 30 – 88 MHz

-4 to 0 dBi Gain

VHF Vehicular Mount Omni-Directional Antenna

DESIGN FEATURES: BVM-30-88 Omni-directional VHF vehicular mount antenna is rugged all weather model, enclosed in a ABS radome, uses high class brass and aluminum alloy and does not require any field tuning or adjustments. The N-Female termination of antenna is fixed at the bottom of the mounting flange for complete weather protection. 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.

CONSTRUCTIONS: The VHF vehicle mount 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 over the entire 30-88 MHz. frequency band. The UV resistant ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The antenna doesn't require any ground plane for its operation and is independent from ground. Although a 3m x 3m ground plane is recommended for higher preferences. The compact size of omni-directional VHF antenna allows easy handling, shipping. and highly suitable for vehicular application without having the requirement of multiple antennas.

MOUNTING PROCEDURES: This vehicle mount antenna is supplied with standard NATO 4 holes pattern with biconical spring fitted at the base of antenna for better flexibility. The mounting hardware is made of marine grade stainless steel. Customized mounting arrangements can also be supplied on request.

ELECTRICAL SPECIFICATIONS:

Frequency Range Gain Bandwidth Polarization Input Impedance Radiation Pattern -3 dB. Vertical Beam-width VSWR – better than RF Power Handling Capacity Input Termination MECHANICAL SPECIFICATIONS: Materials Wind Rating Overall Length Shipping Length Maximum Mount Pipe Diameter Enclosure Materials Enclosure Length Ground Plane Required Net Weight Gross Weight ENVIRONMENTAL SPECIFICATIONS: Operating Temperature Find Day 10 to 470 Degrees Celsius Find No 10 to 95% RH Potrical Storage Temperature Find Oddin. Typical Entire Band Vertical Storage Temperature Storage Temperature South Oddin. Typical South Sentire Band Vertical Storage Temperature South Oddin. Typical South Sentire Band Vertical South Sentire Band Vertical South Oddin. Typical South Sentire Band Vertical Shurie Band Vertical South Oddin. Typical Sentire Band Vertical Shurie Band Vertical Shuries	ELECTRICAL SPECIFICATIONS:		
Bandwidth Polarization Input Impedance Radiation Pattern -3 dB. Vertical Beam-width VSWR – better than RF Power Handling Capacity Input Termination MECHANICAL SPECIFICATIONS: Materials Wind Rating Overall Length Mountt Shipping Length Maximum Mount Pipe Diameter Enclosure Materials Maximum Mount Pipe Diameter Enclosure Length Ground Plane Required Net Weight Gross Weight ENVIRONMENTAL SPECIFICATIONS: Operating Temperature Entire Band Vertical So Ohms Omni-directional 78 Degrees Sto Watts. N-Female N-Female Mrechanical Septiments N-Female N-Female N-Female Vehicular Net include Stainless Steel Vehicular Nount 2.0 Meters NATO 4 holes with spring UV Resistant ABS 180 mm EXPERTS 3 kgs. 3.5 kgs. ENVIRONMENTAL SPECIFICATIONS: (-)30 to +70 Degrees Celsius (-)40 to +80 Degrees Celsius	Frequency Range	1	30 - 88 MHz.
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VSWR – better than RF Power Handling Capacity Input Termination MECHANICAL SPECIFICATIONS: Materials Mounting Hardware -Materials Wind Rating Overall Length Shipping Length Maximum Mount Pipe Diameter Enclosure Materials Enclosure Length Ground Plane Required Net Weight Gross Weight ENVIRONMENTAL SPECIFICATIONS: Operating Temperature Sign and sign are selected as a sign and sign are selected as a sign are selected as	Radiation Pattern		Omni-directional
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Gross Weight ENVIRONMENTAL SPECIFICATIONS: Operating Temperature Storage Temperature (-)40 to +80 Degrees Celsius	Ground Plane Required	EXPERIS	3m x 3m for higher efficiency
ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-)30 to +70 Degrees Celsius Storage Temperature (-)40 to +80 Degrees Celsius	Net Weight		3 Kgs.
Operating Temperature (-)30 to +70 Degrees Celsius Storage Temperature (-)40 to +80 Degrees Celsius	Gross Weight		3.5 Kgs.
Storage Temperature (-)40 to +80 Degrees Celsius	ENVIRONMENTAL SPECIFICATIONS:		
	Operating Temperature		(-)30 to +70 Degrees Celsius
Humidity 0 to 95% RH	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.