

Model COM231 Vehicular Mount VHF Communications Antenna

The COM231 is a vertically polarized, omni-directional antenna specifically designed to meet rigorous, environmental and mechanical conditions encountered in a military environment. It provides VHF communications for a range of military vehicles and can be used with any radio that operates within its 30-88 MHz frequency.

Designed for a maximum of 200 Watts of CW power, the COM231 has a VSWR of 2.5:1 (typical). The antenna has an omni-directional radiation pattern in the azimuth plane and a figure eight pattern in the elevation plane. Maximum power is directed towards the horizon. Typical antenna gain is -1 dBi relative to an isotropic source.



FEATURES:

- 30-88 MHz Operating band
- Power 200 W CW
- 2.5 : 1 VSWR typical
- No active tuning required
- Height 75"
- Omnidirectional pattern
- Designed for use in vehicles traveling at speeds up to 50 MPH
- Can be tied down for stowage
- Connector adapters can be purchased separately

ENVIRONMENTAL CHARACTERISTICS:

- High Voltage strike (20,000 V RMS) protection
- Impact Resistant
- Designed per MIL-STD 810
- Lightning strike protection according to MIL-STD-464, 10L amps, 8/20 microseconds 10X's

MECHANICAL CHARACTERISTICS:

- Mounting four 7/16 diameter holes and 4.50 inch bolt circle



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ELECTRICAL SPECIFICATIONS

FREQUENCY:	• 30-88 MHz
GAIN:	• -1 dBi typical
VSWR:	• 2.5:1 typical
IMPEDANCE:	• 50 ohms
POWER:	• 200 W CW max
POLARIZATION:	• Vertical
PATTERN:	
AZIMUTH:	• Omnidirectional
ELEVATION:	• Figure Eight
RF CONNECTORS:	• Type N female

MECHANICAL SPECIFICATIONS

ELEMENT HEIGHT:	• 68"
ELEMENT DIAMETER:	
UPPER:	• 1.7"
LOWER:	• 3.0"
TOTAL HEIGHT:	• 75"
WEIGHT:	• 11 lbs.
WIND (guyed):	• 100 mph
TEMPERATURE:	• -40° to +65°C
FINISH:	• Epoxy CARC 383 green

