

# Omni-directional TETRA Band Collinear Antenna

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Model # AC-642001

Frequency 410 – 430 MHz.

6.8dBi Gain

## OMNI-DIRECTIONAL HIGH GAIN TETRA BAND ANTENNA

**DESIGN FEATURES:** AC6-420 Omni-directional TETRA Band Collinear Antenna is rugged all weather model uses 6063T6 ultra corrosion resistant architectural aluminum, high class brass alloy and does not require any field tuning or adjustments. All junctions are fully welded to prevent RF inter-modulation and antenna is completely protected within a high-tech ruggedized ABS radome to ensure survivability in the worst environments. The UV resistant ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The compact size of collinear antenna allows easy handling and shipping.

**CONSTRUCTIONS:** The AC6-420 is a center fed design which eliminates the distortion of the radiation pattern and ensures a true omni-directional horizontal pattern. The special stub matching is used for smooth VSWR and constant 6.8dBi gain over the entire 410-430MHz TETRA frequency band. The collinear antenna consist of large diameter brass radiating elements stacked vertically, fed in phase and enclosed in ABS tube. The antenna termination is enclosed at bottom of the antenna for complete weather protection. The mounting hardware is made of type 316 marine grade stainless steel and supplied with the antenna.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	410-430 MHz.
Gain	6.8 dBi.
Bandwidth	20 MHz.
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni Directional
Vertical Beam-width –Half Power Points	26 Degrees
VSWR – Less Than	1:1.5
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	2.5 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1.7 Meters
Shipping Length	1.8 Meters
Support Pipe O.D.	51 mm
Support Pipe Materials	6063T6 Aluminum
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Materials	UV Resistant ABS
Enclosure Outer Diameter	45 mm
Enclosure Length	1450 mm

### 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.