



# ANTENNA EXPERTS

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Model # AC-380-512 380 – 512 MHz. 3 dBi Gain

## TETRA Band Omni-Directional Antenna

**DESIGN FEATURES:** AC-380-512 Omni-directional TETRA band antenna is rugged all weather model, enclosed in a ABS radome, uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy and does not require any field tuning or adjustments. The compact size (0.7Meter shipping length) of omni-directional TETRA antenna allows easy handling, shipping and highly suitable for receiving, transmitting of radio signals for TETRA radio without having the requirement of multiple antennas. The N-Female termination of antenna is fixed at the bottom of the mounting pipe for complete weather protection. Cylindrical 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:** This TETRA 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 3dBi. gain over the entire 380-512 MHz. frequency band. The UV resistant ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The marine grade stainless steel mounting brackets and bird resistant cap is supplied with the antenna.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	380 - 512 MHz.
Gain	3 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width –Half Power Points.	76 Degrees
VSWR – Better than	1:2.0
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Materials	6063T6 Aluminum
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	0.60 Meter
Shipping Length	0.70 Meter
Maximum Mount Pipe Diameter	52 mm (2 Inches)
Enclosure Materials	UV Resistant ABS
Enclosure Length	450 mm
Net Weight	3.5 Kgs.
Gross Weight	4.5 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.