



# ANTENNA EXPERTS

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Model # GP-155-174

155 – 174 MHz.

2 dBi Gain

## BROADBAND GROUND PLANE ANTENNA

**DESIGN FEATURES:** GP-155-174 Broadband Ground Plane Antenna is rugged all weather model, uses high class 6063T6 ultra corrosion resistant architectural aluminum alloy and does not require any field tuning. Due to its low VSWR through entire band from 155-174 MHz, this broadband GP antenna can be used as a transmitting and receiving antenna with high efficiency, to meet the broadband requirement of a base station antenna such as spectrum monitoring or jamming application. The ground plane antenna when packed comes with ground radials removed from the antenna body for ease of packing and transportation.

**CONSTRUCTIONS:** The broadband ground plane antenna consists of large diameter aluminum radiating element, completely protected within a high-tech ruggedized fiberglass enclosure to ensure survivability in the worst environments. The fiber glass radome has an excellent transparency for RF signals and enough strength to withstand specified wind loads. The all aluminum ground plane antenna prevents formation of “Signal Cells”, thereby eliminating inter-modulation within the antenna. The mounting hardware and all four ground plane elements are made of marine grade stainless steel. The antenna base is made 100 mm x 100 mm right angle (L type) aluminum plate.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	155-174 MHz.
Gain	2 dBi.
Bandwidth	Entire Band
Input Impedance	50 Ohms
Radiation Pattern	Omni Directional
Vertical Beam-width –Half Power Points	78 Degrees
VSWR – Better than	1:1.5
RF Power Handling Capacity	500 Watts
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Materials	Aluminum, SS & Fiberglass
Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	1.5 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1 Meter
Shipping Length	0.55 Meter
Number of GP Elements	4 (Four)
Maximum Mount Pipe Diameter	52 mm (2 Inches)

### 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.