

VHF High Gain Yagi Antenna

AY-150

136-174 MHz.

12 dBi. Gain

DESIGN FEATURES: The VHF band yagi antenna uses special feed which eliminates the use of folded dipole. The unique design of the yagi antenna feed which works as matching device to keep the VSWR low resulting in increased efficiency of the yagi antenna. The AY-150 VHF band yagi antenna is supplied with N termination fixed on the driven element. This directional yagi antenna, comes factory tuned and does not require any field adjustment. The aviation band yagi antenna is highly suitable as base station antennas. The yagi antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy. The antenna is supplied with powder coating finish to protect it further from severe environmental conditions.

CONSTRUCTIONS: Antenna Experts aviation band yagi antenna design reflects innovative modern antenna construction. Radiating elements, supporting booms and adjoining metal castings of yagi antenna have been constructed in high quality aluminum alloys to prevent corrosion. Special mounting hardware permits to mount the yagi antenna either Horizontal or Vertical polarization. The yagi antenna when packed comes with elements removed from the antenna boom for ease of packing and transportation. This yagi antenna can be assembled at site with simple hand-tools.



ELECTRICAL SPECIFICATIONS:

Frequency Range	136 - 174 MHz.
Gain	12 dBi
Bandwidth	8 MHz
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Horizontal Beam-width -Half Power Points	65 Degrees
Vertical Beam-width –Half Power Points	55 Degrees
Front to Back Ratio	16 dB.
VSWR – Better Than	1:1.5
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Gross Weight	5.0 Kgs.
Wind Rating	200 Km/Hr.
Overall Length at Center Frequency	2.0 Meters
Shipping Length	2.1 Meters
Support Boom -Cross Section-Outer Diameter	Aluminum -Square Tube-25.4 mm
Elements - Materials -Cross Section -Outer Diameter	Aluminum -Round Tube-19 mm
Maximum Mount Pipe Diameter	52mm (2 Inches)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Please contact us for further information like Azimuth & Elevation radiation patterns & frequency Vs VSWR of the antenna.

Note: All information contained in the datasheet is subject to change without any prior notice.