



ANTENNA EXPERTS

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Model AY-128

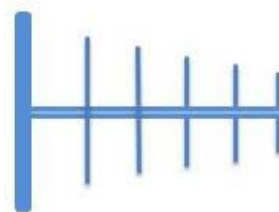
117 – 137 MHz.

11dBi. Gain

AVIATION BAND DIRECTIONAL YAGI ANTENNA

DESIGN FEATURES: The aviation 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-128 aviation 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 for ATC sites where longer communication range is required to cover the particular sector like long strip or Gulf to control the inbound and outbound Oceanic traffic.

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	117 - 137 MHz.
Gain	9 dBd. (11dBi)
Bandwidth	Entire Band
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	2:1
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