



ANTENNA EXPERTS

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Model # AP-3530

3300 – 3800 MHz.

30 dBi. Gain

MICROWAVE GRID PARABOLIC ANTENNA

DESIGN FEATURES: The AP-3530 microwave grid parabolic antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy and is consists of full Parabolic reflector having a diameter of 1.2 Meters for use in point-to-point analogue and digital communication systems. The mounting arrangement of grid parabolic Antenna permits to change the polarization from horizontal to vertical and vice-versa.

CONSTRUCTIONS: Radiating elements and the dipole feed are made high quality aluminum alloy to avoid any dissimilar materials. The rim and supporting arc are welded with argon welding technique to provide smooth finish and strong joints. Each grid member of the antenna is riveted at four points using pneumatic riveter. All the screws, nuts, bolts and mounting hardware of grid parabolic antenna are made of type 316 marine grade stainless steel.

TRACKING MECHANISM: The AP-3530 microwave grid parabolic antenna supplied with elevation tracking mechanism where fine adjustments is necessary to optimize the signal strength of radio link.



ELECTRICAL SPECIFICATIONS:

Frequency Range	3300 - 3800 MHz.
Forward Gain @ Low Band	29.4 dBi.
Forward Gain @ Mid Band	30.0 dBi.
Forward Gain @ High Band	30.5 dBi.
Bandwidth with VSWR 1.5:1	500 MHz.
Antenna Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Beam-width –Half Power Points @ Mid Band	5 Degrees
Front to Back Ratio	26 dB.
VSWR – Better than	1:1.5
RF Power Handling Capacity	150 Watts
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Materials	6063T6 Aluminum Alloy
Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	18 Kgs.
Wind Rating	200 Km/Hr.
Elevation Tracking	+/- 5 Degrees
Support Pipe Outer Diameter	Aluminum 25.4 mm (1 Inch)
Diameter of Parabolic Reflector	1.2 Meters (4 feet)
Grid Members Materials	Aluminum Pipe ½ Inch (12 mm)
Maximum Mount Pipe Diameter	50-76 mm (2- 3 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.