



# ANTENNA EXPERTS

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Model # AP-45018

406 – 512 MHz.

18 dBi. Gain

## GRID PARABOLIC ANTENNA

**DESIGN FEATURES:** The AP-45018 grid parabolic antenna consists of full Parabolic reflector having a diameter of 2.4 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 of high quality brass. The grid parabolic antenna operates at D.C. ground with low resistance discharge path for protection against lightning and immunity to noise. All the screws, nuts and bolts of grid parabolic antenna are of stainless steel.

**TRACKING MECHANISM:** The AP-45018 grid parabolic antenna supplied with elevation tracking mechanism where fine adjustments is necessary to optimize the signal strength of radio link along with two side struts to provides extra support to the antenna.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	406 - 512 MHz.
Gain @ Mid Band	18 dBi.
Bandwidth	40 MHz.
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Beam-width –Half Power Points @ Mid Band	19 Degrees.
Front to Back Ratio	33 dB.
VSWR – Better than	1:1.5
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female
Lightning Protection	Direct Ground

### MECHANICAL SPECIFICATIONS:

Materials	All Aluminum
Mounting Hardware	Stainless Steel
Gross Weight	90 Kgs.
Wind Rating	200 Km/Hr.
Elevation Tracking	+/- 5 Degrees
Support Pipe -Outer Diameter	51 mm ( 2 Inches)
Support Pipe Material	Aluminum
Diameter of Parabolic Reflector	2.4 Meters
Radiating Materials	Brass
Grid Members Materials	Aluminum Pipe 5/8 Inch(16mm)
Maximum Mount Pipe Diameter	115 mm ( 4.5 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.