



ANTENNA EXPERTS

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Model # AP-180027 1700 – 1900 MHz. 27 dBi. Gain

GRID PARABOLIC ANTENNA

DESIGN FEATURES: The AP-180027 grid parabolic antenna consists of full Parabolic reflector having a diameter of 1.8 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-180027 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	1700 - 1900 MHz.
Gain @ Mid Band	27 dBi.
Bandwidth	51 MHz.
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Beam-width –Half Power Points @ Mid Band	6.5 Degrees.
Front to Back Ratio	28 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	35 Kgs.
Wind Rating	200 Km/Hr.
Elevation Tracking	+/- 5 Degrees
Support Pipe Outer Diameter	38 mm (1.5 Inches)
Support Pipe Material	Aluminum
Diameter of Parabolic Reflector	1.85 Meters
Radiating Materials	Brass
Grid Members Materials	Aluminum Pipe ½ Inch (12.7mm)
Maximum Mount Pipe Diameter	75 mm (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.