



ANTENNA EXPERTS

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Model # AP-145016 1300 – 1600 MHz. 16 dBi. Gain

UHF Grid Parabolic Antenna

DESIGN FEATURES: The AP-145016 grid parabolic antenna consists of full Parabolic reflector having a diameter of 0.6 Meters for use in all tactical and fixed station applications for terrestrial radio link. The antenna covers 150MHz bandwidth, operates in linear polarization and requires only one operator for installation. The mounting arrangement of Grid Parabolic Antenna permits to change the polarization from horizontal to vertical and vice-versa by mounting hardware fitted at rear end of the antenna. The antenna is supplied with +/-10 degrees elevation tracking mechanism. The grid parabolic antenna operates at D.C. ground with low resistance discharge path for protection against lightning and immunity to noise.

CONSTRUCTIONS: The AP-145016 uses 6063T6 ultra corrosion resistant architectural anodized aluminium alloy and supplied with epoxy based anti-corrosion powder coating finish in order to prevent it further from severe environmental condition. The tactical grid parabolic antenna can be installed at vertical erected mast. The parabolic reflector is illuminated by a primary feed which is fitted to the center of assembly with quick fastener system. All the screws, nuts and bolts of tactical microwave antenna are of marine grade stainless steel. The antenna supplied with army olive green color.



ELECTRICAL SPECIFICATIONS:

Frequency Range	1300 - 1600 MHz.
Gain @ Mid Band	16 dBi.
Bandwidth	150 MHz.
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Beam-width –Half Power Points @ Mid Band	24 Degrees.
Front to Back Ratio	23 dB.
VSWR – Better than	1.5:1
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female
Lightning Protection	Direct Ground

MECHANICAL SPECIFICATIONS:

Materials	6063T6 Aluminum Alloy
Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	5 Kgs.
Wind Rating	200 Km/Hr.
Elevation Tracking	+/- 10 Degrees
Support Pipe Outer Diameter	25.4 mm (1 Inch)
Support Pipe Materials	6063T6 Aluminum Alloy
Diameter of Parabolic Reflector	0.6 Meter (2 feet)
Radiating Materials	High Quality Brass
Grid Members Materials	Aluminum Pipe ½ Inch (12 mm)
Maximum Mount Pipe Diameter	52 mm (2 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.