

ANTENNA EXPERTS

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Model # AP-145019 1300 – 1600 MHz. 19 dBi. Gain

UHF Grid Parabolic Antenna

DESIGN FEATURES: The AP-145019 grid parabolic antenna consists of full Parabolic reflector having a diameter of 0.9 Meter for use in all tactical and fixed station applications for terrestrial point to point analogue and digital communication radio link. The antenna covers 150 MHz bandwidth, operates in linear polarization and requires two operators for installation. The antenna dipole feed uses an Air-Cored transmission line. 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 +/-5 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-145019 uses 6063T6 ultra corrosion resistant architectural anodized aluminium alloy and supplied with epoxy based anti-corrosive powder coating finish in order to prevent it further from severe environmental condition. The parabolic reflector is illuminated by a primary feed which is fitted to the center of assembly with quick fastener system. Radiating elements and the dipole feed are made of high quality brass. All the screws, nuts and bolts of tactical microwave antenna are of marine grade stainless steel. The antenna supplied with army olive green color. The tactical grid parabolic antenna can be installed at vertical erected mast.

TRACKING MECHANISM: The AP-145019 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 Gain @ Mid Band Bandwidth Polarization Input Impedance Radiation Pattern Beam-width -3dB @ Mid Band Front to Back Ratio VSWR - Better than RF Power Handling Capacity Input Termination Lightning Protection MECHANICAL SPECIFICATIONS: Materials 19 dBi. 150 MHz. V or H 50 Ohms. Crid Parabolic Antenna 16 Degree 23 dB. 1:1.5 250 Watts N-Female Direct Gro MECHANICAL SPECIFICATIONS:	al
Bandwidth Polarization Input Impedance Radiation Pattern Beam-width -3dB @ Mid Band Front to Back Ratio VSWR – Better than RF Power Handling Capacity Input Termination Lightning Protection MECHANICAL SPECIFICATIONS: Materials 150 MHz. V or H 50 Ohms. Directiona AP Senies – Mid. By: 23 dB. ANTHIM EXPERIS 1:1.5 N-Female Direct Grown	al
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Input Impedance Radiation Pattern Beam-width -3dB @ Mid Band Front to Back Ratio VSWR - Better than RF Power Handling Capacity Input Termination Lightning Protection MECHANICAL SPECIFICATIONS: Materials 50 Ohms. Directiona And Parabolic Antenna 23 dB. 250 Watts Direct Grown MECHANICAL SPECIFICATIONS:	al
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Front to Back Ratio VSWR – Better than RF Power Handling Capacity Input Termination Lightning Protection MECHANICAL SPECIFICATIONS: Materials AP Series – Mfd. By: 23 dB. 1:1.5 250 Watts N-Female Direct Grown 6063T6 Aluminum All	?S.
VSWR – Better than RF Power Handling Capacity Input Termination Lightning Protection MECHANICAL SPECIFICATIONS: Materials 1:1.5 250 Watts Direct Grown and Company and	
RF Power Handling Capacity Input Termination Lightning Protection MECHANICAL SPECIFICATIONS: Materials Control of the con	
Input Termination Lightning Protection MECHANICAL SPECIFICATIONS: Materials Materials N-Female Direct Gro 6063T6 Aluminum All	
Lightning Protection MECHANICAL SPECIFICATIONS: Materials Direct Gro 6063T6 Aluminum All	5.
MECHANICAL SPECIFICATIONS: Materials 6063T6 Aluminum All	
Materials 6063T6 Aluminum All	ound
	loy
Mounting Hardware Marine Grade Stainle	ss Steel
Gross Weight 10 Kgs.	
Wind Rating 200 Km/Hr.	
Elevation Tracking +/- 5 Degrees	
Support Pipe Outer Diameter 25.4 mm (1 Inch)	
Support Pipe Materials 6063T6 Aluminum All	loy
Diameter of Parabolic Reflector 0.9 Meter (3 feet)	
Radiating Materials High Quality Brass	
Grid Members Materials Aluminum Pipe ½ Inc	h (12 mm)
Maximum Mount Pipe Diameter 52 mm (2 Inches)	
ENVIRONMENTAL SPECIFICATIONS:	
Operating Temperature (-)30 to +70 Degrees	Colcius
Storage Temperature (-)40 to +80 Degrees	CEISIUS
Humidity 0 to 95% RH	

Note: All information contained in the datasheet is subject to change without any prior notice.