



ANTENNA EXPERTS

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Model # AP-2330-32 2305 – 2360 MHz. 32 dBi. Gain

Terrestrial Microwave Grid Parabolic Antenna

DESIGN FEATURES: The AP-2330-32 grid parabolic antenna consists of full Parabolic reflector having a diameter of 2.4 Meters for use in point-to-point terrestrial analogue and digital communication systems. 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 dipole feed uses an Air-Cored transmission line. 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-2330-32 grid parabolic antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminum alloy. The parabolic reflector is illuminated by a primary feed horn 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 stainless steel. The antenna supplied with army green color. The complete antenna is supplied with anti-corrosive powder coating finish and the dipole feed is completely sealed inside ABS housing/radome. The AP-2330-32 grid parabolic antenna supplied with elevation tracking mechanism where fine adjustments is necessary to optimize the signal strength of radio link along with 2 side struts to provide extra rigidity to an antenna.



FCC COMPLIANCE: This grid parabolic antenna is 100% in compliance with FCC part 101.115 covering directional antenna especially the front to back ratio, beam-width and cross polarization discrimination.

ELECTRICAL SPECIFICATIONS:

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| Frequency Range | 2305 - 2360 MHz. |
| Gain @ Mid Band | 32 dBi. |
| Bandwidth | Entire 2305-2360 MHz. |
| Polarization | Vertical or Horizontal |
| Input Impedance | 50 Ohms. |
| Radiation Pattern | Directional |
| Beam-width –Half Power Points @ Mid Band | 3.7 Degrees. |
| Front to Back Ratio | 40 dB. |
| Cross Polarized Discrimination | 36 dB. |
| VSWR – Better than | 1.3:1 |
| RF Power Handling Capacity | 150 Watts. |
| Input Termination | N-Female |
| Lightning Protection | Direct Ground |

MECHANICAL SPECIFICATIONS:

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|--------------------------------------|------------------------------|
| Materials | 6063T6 Aluminum Alloy |
| Mounting Hardware | Marine Grade Stainless Steel |
| Gross Weight | 65 Kgs. |
| Wind Rating | 200 Km/Hr. |
| Elevation Tracking | +/- 10 Degrees |
| Support Pipe & Rim -Outer Diameter | Aluminum Tube 51 mm (2") |
| Grid Member Materials-Outer Diameter | Aluminum Tube 12.7 mm (1/2") |
| Diameter of Parabolic Reflector | 2.4 Meters (8 Feet) |
| Radiating Materials | High Quality Brass |
| Grid Members Materials | Aluminum Pipe ½ Inch (12 mm) |
| Maximum Mount Pipe Diameter | 110 mm (4 Inches) |

ENVIRONMENTAL SPECIFICATIONS:

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|-----------------------|------------------------------|
| Operating Temperature | (-)30 to +70 Degrees Celsius |
| Storage Temperature | (-)40 to +80 Degrees Celsius |
| Humidity | 0 to 95% RH |