



ANTENNA EXPERTS

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Model # APT-4734 4400 – 5000 MHz. 33.5 dBi. Gain

Tactical Microwave Grid Parabolic Antenna

DESIGN FEATURES: The APT-4734 tactical microwave grid parabolic antenna consists of full Parabolic reflector having a diameter of 1.6 Meters for use in all tactical and fixed station applications for conventional radio relay systems. The antenna covers full NATO band IV, operates in linear polarization and requires two operators for installation. The antenna features a rare combination of high gain low side lobes and a rugged construction. APT-4734 is perfect for use in crowded electromagnetic spectrums which avoid interference from co-sited antenna. The mounting arrangement of Tactical 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.

CONSTRUCTIONS: The APT-4734 uses 6063T6 ultra corrosion resistant architectural anodized aluminium alloy and supplied with powder coating finish in order to prevent it further from sever environmental condition. The tactical microwave antenna operates in the 4400-5000MHz. frequency band and 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. 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 tactical microwave antenna are of marine grade stainless steel. The antenna supplied with olive army green color.



ELECTRICAL SPECIFICATIONS:

| | |
|-------------------------------------|------------------------------|
| Frequency Range | 4400-5000 MHz. |
| Isotropic Gain @ Mid Band | 33.5 dBi. |
| Bandwidth | Entire NATO Band IV |
| Polarization | Vertical or Horizontal |
| Input Impedance | 50 Ohms. |
| Radiation Pattern | Directional |
| V & H Beam-width –Half Power Points | 3.0 Degrees (+/-1.5 Degrees) |
| Front to Back Ratio | 32 dB. |
| VSWR – Better than | 1:2.0 |
| RF Power Handling Capacity | 100 Watts |
| Input Termination | N-Female |

MECHANICAL SPECIFICATIONS:

| | |
|---------------------------------|------------------------------|
| Materials | 6063T6 Aluminum Alloy |
| Mounting Hardware | Stainless Steel |
| Gross Weight | 22 Kgs. |
| Wind Rating | 160 Km/Hr. |
| Color / Finish | Powder Coated Olive Green |
| Support Pipe Materials | 6063T6 Aluminum Alloy |
| Diameter of Parabolic Reflector | 1.6 Meters (5.3 feet) |
| Grid Members Materials | Aluminum Pipe 1/2 Inch(12mm) |
| Maximum Mount Pipe Diameter | 52 mm (2 Inches) |

ENVIRONMENTAL SPECIFICATIONS:

| | |
|-----------------------|---|
| Operating Temperature | MIL-STD-810G, (-) 30 to +70 Degrees Celsius |
| Storage Temperature | MIL-STD-810G, (-) 40 to +80 Degrees Celsius |
| Humidity | MIL-STD-810G, Method 507.5, Procedures I & II |
| Shock | MIL-STD-810G, Method 516.6, Procedure IV |
| Rain | MIL-STD-810G, Method 506.5, Procedure I |
| Salt Fog | MIL-STD-810G, Method 509.5 |

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