



ANTENNA EXPERTS

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Model # APT-4732

4400 – 5000 MHz.

31.5 dBi. Gain

Tactical Microwave Grid Parabolic Antenna

DESIGN FEATURES: The APT-4732 tactical microwave grid parabolic antenna consists of full Parabolic reflector having a diameter of 1.3 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 one operator only for installation. The antenna features a rare combination of high gain low side lobes and a rugged construction. APT-4732 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.

CONSTRUCTIONS: The APT-4732 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 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 grid parabolic antenna are of stainless steel. The antenna supplied with army olive green color.



ELECTRICAL SPECIFICATIONS:

Frequency Range	4400-5000 MHz.
Isotropic Gain @ Mid Band	31.5 dBi.
Bandwidth	Entire NATO Band IV
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Radiation Pattern	Directional
V & H Beam-width –Half Power Points	3.5 Degrees (+/-1.75 Degrees)
Front to Back Ratio	30 dB.
VSWR – Better than	2:1
RF Power Handling Capacity	100 Watts CW
Input Termination	N-Female
Cross Polarization	30 dB.

MECHANICAL SPECIFICATIONS:

Materials	6063T6 Aluminum Alloy
Mounting Hardware	Stainless Steel
Gross Weight	12 Kgs.
Wind Rating	200 Km/Hr.
Color / Finish	Army Green
Support Pipe -Outer Diameter	51 mm (2 Inches)
Support Pipe Materials	6063T6 Aluminum
Diameter of Parabolic Reflector	1.3 Meters
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.