



Tactical Radio Relay Nato Band IV Grid Parabolic Antenna

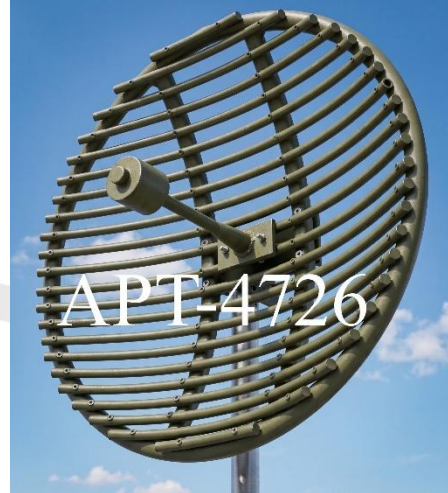
APT-4726

4400-5000 MHz

26 dBi Gain

Tactical Microwave Antenna: The **APT-4726 NATO Band IV tactical grid parabolic antenna** delivers high-performance **broadband wireless connectivity** across the 4400–5000 MHz frequency spectrum. Engineered with a 0.65-meter reflector, this **directional C-band antenna** yields a 26 dBi isotropic gain and a sharp $<7^\circ$ beam-width to optimize **line-of-sight (LOS) data transmission** while mitigating co-sited interference. Operating in adjustable linear polarization with a low VSWR, the system utilizes an N-Female termination to handle 150W of RF power, ensuring efficient **telecommunications infrastructure** deployment for rugged military and fixed-station networks.

MIL-SPEC Telecom Hardware: Constructed from ultra-corrosion-resistant 6063T6 anodized aluminum and high-grade stainless steel, this **heavy-duty military hardware** features an army green powder-coated finish for maximum environmental survivability. The **weatherproof grid antenna** complies with stringent **MIL-STD-810G test standards** for extreme **temperature, shock, vibration, and torrential rain, guaranteeing resilience** during tactical field operations. Designed for quick-fastener, single-operator installation on a 52mm mast, it integrates a $\pm 15^\circ$ elevation tracking mechanism and direct D.C. ground **lightning protection** to maintain secure, uninterrupted signal integrity.



Electrical Specifications:

Frequency Range	4400 - 5000 MHz.
Gain - Typical	26 dBi
Bandwidth	Entire 4.4-5.0 GHz Band
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms
Radiation Pattern	Directional
Vertical Beam-width –Half Power Points.	< 7 Degrees Typical
VSWR – Better Than	2.0:1
RF Power Handling Capacity	150 Watts.
Input Termination	N-Female

Mechanical Specifications:

Materials Used	6063T6 Aluminum Alloy
Mounting Hardware -Materials	High Grade Stainless Steel
Wind Rating	160 Km/Hr. (Higher Optional)
Elevation Tracking	± 15 Degrees
Radiating Element Materials	High Quality Brass
Support Pipe Materials	Aluminum Pipe 1" (25.4mm)
Diameter of Parabolic Reflector	0.65 Meters (2 feet)
Grid Members Materials	Aluminum Pipe $\frac{1}{2}$ " (12.7mm)
Gross Weight	5 Kgs with Brackets
Final Finish/Color	Olive Green or Customized
Maximum Mount Pipe Diameter	52mm (2 Inches)

Environmental Specifications:

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

Please contact us for further information like Azimuth & Elevation radiation patterns, Image and frequency Vs VSWR graph.

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