



Tactical Radio Relay Nato Band IV Grid Parabolic Antenna

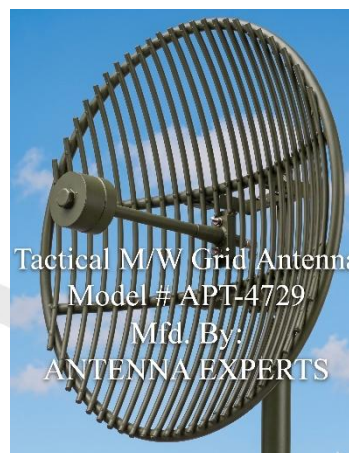
APT-4729

4400-5000 MHz

29 dBi Gain

Tactical NATO Band IV Microwave Antenna: The **APT-4729 tactical microwave grid parabolic antenna** is optimized for high-capacity **broadband wireless connectivity** across the critical 4400–5000 MHz frequency range. Built with a 0.95-meter reflector, this high-performance **directional C-band antenna** delivers a powerful 29 dBi mid-band gain and a narrow 4.8-degree beam-width to maximize **line-of-sight (LOS) data transmission** while filtering out co-sited interference. Offering adaptable vertical or horizontal linear polarization, a 30 dB front-to-back ratio, and a reliable 50-ohm N-female termination, it stands as an essential component for secure military **telecommunications infrastructure** and tactical radio relay deployments.

MIL-SPEC Weatherproof Telecom Hardware: Engineered from ultra-corrosion-resistant 6063T6 anodized aluminum and marine-grade stainless steel, this **heavy-duty military hardware** features an olive green powder coating for extreme environmental resilience. The **IP67-rated grid antenna** fully complies with rigorous **MIL-STD-810F engineering standards** to withstand harsh temperatures ranging from -40°C to +71°C, torrential rain, 40G shock, and wind speeds up to 180 Km/Hr with radial ice. Designed for rapid, single-operator installation on standard 52mm masts, it incorporates a +/-10° elevation tracking system and built-in D.C. ground **lightning protection** to maintain uninterrupted signal integrity in the field.



Electrical Specifications:

Frequency Range	4400 - 5000 MHz.
Gain - Typical	29 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.	4.8 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	180 Km/Hr.
Elevation Tracking	+/- 15 Degrees
Radiating Element Materials	High Quality Brass
Support Pipe Materials	Aluminum Pipe 1" (25.4mm)
Diameter of Parabolic Reflector	0.95 Meters (2 feet)
Grid Members Materials	Aluminum Pipe ½" (12.7mm)
Gross Weight	8 Kgs with Brackets
Final Finish/Color	Olive Green or Customized
Maximum Mount Pipe Diameter	52mm (2 Inches)
IP Rating	IP67 Rating

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.