



# ANTENNA EXPERTS

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Model # APT-1619                      1350 – 1850 MHz.                      19 dBi. Gain

## Tactical Microwave Grid Parabolic Antenna NATO Band III

**DESIGN FEATURES:** The APT-1619 tactical microwave grid parabolic antenna consists of full Parabolic reflector having a diameter of 0.9 Meter for use in all tactical and fixed station applications for conventional radio relay systems. The antenna covers full band III, operates in linear polarization and requires only one operator for installation. The antenna features a rare combination of high gain, low side lobes and a rugged construction. APT-1619 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-1619 tactical microwave antenna operates in the 1350-1850MHz. 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. Radiating elements and the dipole feed are made of high quality brass. 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 stainless steel. The antenna supplied with olive green epoxy based anti-corrosive paint to protect it further from severe environment.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	1350-1850 MHz.
Isotropic Gain @ Low Band / High Band	19 dBi. / 22 dBi.
Bandwidth	Entire Band III
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Beam-width –Half Power Points @ Low Band /High Band	17 Degrees / 12 Degrees
Front to Back Ratio	>20 dB.
VSWR – Better than	1:2
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female
Lightning Protection	Direct Ground

### MECHANICAL SPECIFICATIONS:

Materials	6063T6 Aluminum Alloy
Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	9 Kgs.
Wind Rating	180 Km/Hr.
Color/Finish – Anti-corrosive Epoxy Based Pain	Olive Green
Support Pipe -Outer Diameter	25.5 mm ( 1 Inch)
Support Pipe Materials	6063T6 Aluminum Alloy
Diameter of Parabolic Reflector	0.95 Meter (3 feet)
Radiating Materials	High Quality Brass
Grid Members Materials	Aluminum Pipe 1/2 Inch(12mm)
Maximum Mount Pipe Diameter	52 mm ( 2 Inches)

### ENVIRONMENTAL SPECIFICATIONS:

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

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