ANTENNA EXPERTS

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Model # APT-1327-3 1350 – 2700 MHz. 18-24 dBi. Gain

Tactical Microwave Grid Parabolic Antenna

DESIGN FEATURES: The APT-1327-3 tactical microwave grid parabolic antenna consists of full Parabolic reflector having a diameter of 0.9 Meters (3 feet) for use in all tactical and fixed station applications for conventional radio relay systems. The antenna covers full NATO band III+ frequency band, 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-1327-3 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-1327-3 tactical microwave antenna operates in the 1350-2700MHz. 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 antenna are of stainless steel. The antenna supplied with army green color. The complete antenna is supplied with anti-corrosive powder coating finish and the dipole feed is completely sealed inside ABS housing/radome.

ELECTRICAL SPECIFICATIONS:	
Frequency Range	1350-2700 MHz.
Isotropic Gain @ Low/Mid/High Band	18/21/24 dBi.
Bandwidth	Entire NATO Band III+
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Lightening Protection	DC Ground
V & H Beam-width –3dB. @Low/Mid/High band	17/11/8 Degrees
Front to Back Ratio	25 dB.
VSWR – Better than	2:1
RF Power Handling Capacity	150 Watts
Input Termination	N-Female
Cross Polarization	25 dB.
MECHANICAL SPECIFICATIONS:	
Grid Reflector Materials	6063T6 Aluminum Alloy
Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	9 Kgs.
Wind Rating	200 Km/Hr.
Color / Finish	Olive Green
Support Pipe & Rim-Outer Diameter	Aluminum Tube 25.4 mm (1”)
Grid Member – Outer Diameter	Aluminum Tube 12.7mm (1/2”)
Diameter of Parabolic Reflector	0.9 Meters (3 feet)
Grid Members Materials	Aluminum Pipe 1/2 Inch(12mm)
Maximum Mount Pipe Diameter	38-52 mm (1.5-2 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