

TENNA EXPERI

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Model SAT-225-406C 225 - 406 MHz. 10 dBic. Gain

UHF SATCOM GROUND-TO-AIR CIRCULAR POLARIZED YAGI ANTENNAA

DESIGN FEATURES: SAT-225-406C rugged, high gain, all weather crossed elements yagi antenna is designed for satellite communication (SATCOM) application with right hand circular polarization. When the array is mounted on the rotator (not supplied), the crossed elements array makes an angle of 45 degrees with respect to horizontal plane. A crossed member can be supplied with the array for necessary mounting arrangement on a Rotator. SAT-225-406C right hand circular polarized SATCOM array can be used with most tactical Multi-Band, Multi-Mode Receivers (MBMMR) and ground transceivers that accept 50 ohms antenna impedance.

CONSTRUCTIONS: The right hand circular polarized SATCOM antenna uses a 6063T6 ultra corrosion resistant architectural aluminum alloy and supplied with powder coating to protect it further from severe environment conditions. The RHCP SATCOM antenna termination uses N-Female connector fixed on the antenna dipole. The SATCOM array is supplied with complete mounting hardware balanced at its center of gravity for mounting on a rotator for azimuth and elevation plane scanning. The mounting hardware supplied is of marine grade stainless steel fasteners. If user does not have rotator, a crossover mounting plate to mount the antenna on top of the mast can be supplied.

ELECTRICAL SPECIFICATIONS:

Gain 10 dBic. Bandwidth Entire Band. Polarization RHCP Input Impedance 50 Ohms. Horizontal Beam-width –Half Power Points 55 Degrees Vertical Beam-width –Half Power Points 50 Degrees Axial Ratio 3 dB. Cross Polarization Discrimination 15 dB.	
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Cross Polarization Discrimination 15 dB.	
Front to Back Ratio 17 dB.	
VSWR – Equal to or better than 2.5 : 1	
RF Power Handling Capacity 250 Watts.	
Input Termination N-Female	

MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Gross Weight	4 Kgs.
Wind Rating	170 Km/Hr.
Overall Length	1.5 Meters
Shipping Length	1.6 Meters
Support Boom-Materials-Cross Section	Aluminum -Round Tube
Elements - Materials - Cross Section	Aluminum -Round Tube
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

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