



ANTENNA EXPERTS

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Model CY-150

134 – 174 MHz.

11 dBic. Gain

CIRCULAR POLARIZED CROSS ELEMENTS YAGI ARRAY

DESIGN FEATURES: CY-150 rugged, all weather crossed elements yagi antenna use 6063T6 ultra corrosion resistant architectural anodized aluminum alloy, is designed for circular polarization. The phase shifter cable and harness cable comes with impedance matched molded joints for low VSWR and protection against weather. When the antenna is mounted on the rotator, the crossed elements array makes an angle of 45 degrees with respect to horizontal plane. A crossed member will be supplied with the antenna for necessary mounting arrangement on a Rotator.



CONSTRUCTIONS: The Yagi Antenna uses a gamma matching feed, eliminating the use of folded dipole. The antenna termination uses N-Female connector fixed on the antenna dipole. The Circular Yagi Antenna when packed comes with elements removed from the antenna boom for ease of packing and transportation. The mounting hardware and all fasteners are made of marine grade stainless steel. The Yagi antenna can be configured to work as RHCP or LHCP selectable by inter-changing the 90 Degrees delay harness cable.

ELECTRICAL SPECIFICATIONS:

Frequency Range	134 - 174 MHz.
Gain	11 dBic.
Bandwidth	5 MHz.
Polarization	LHCP or RHCP (Field Selectable)
Input Impedance	50 Ohms.
Horizontal Beam-width –Half Power Points	55 Degrees
Vertical Beam-width –Half Power Points	45 Degrees
Axial Ratio	2 dB.
Front to Back Ratio	16 dB.
VSWR – Equal to or better than	1.5 : 1
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Gross Weight	6 Kgs.
Wind Rating	180 Km/Hr.
Overall Length	1.8 Meters
Shipping Length	1.9 Meters
Number of Yagi Booms	1
Support Boom-Materials-Cross Section- Outer Diameter	Aluminum -Round Tube-25.4 mm
Elements - Materials - Cross Section- Outer Diameter	Aluminum -Round Tube-12.7 mm
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.