AY-2450 2300-2600 MHz. 13 dBi. (11	11dBd) Gain
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**DESIGN FEATURES:** Antenna Experts Yagi antenna design reflects innovative modern antenna construction. The unique design of the yagi antenna feed which works as matching device to keep the VSWR low resulting in increased efficiency of the yagi antenna. The mounting hardware supplied facilitates mounting on either vertical or horizontal members. The yagi antenna comes in pre-assembled condition with permanently fixed elements in the support boom. The small surface area on the yagi

antenna minimizes wind resistance and conserves tower loading capacity.



**CONSTRUCTIONS:** Radiating elements, supporting

booms and adjoining metal castings of AY-2450 yagi antenna have been constructed in high quality 6063T6 aluminum alloys to prevent corrosion. The yagi antenna uses special feed which eliminates the use of folded dipole. The Yagi antenna is supplied with N termination fixed on the driven element. The feed point radiator is enclosed in a Nylon housing designed to protect against severe environmental conditions and minimize pattern distortion. This directional yagi antenna comes factory tuned and does not require any field adjustment.

## **ELECTRICAL SPECIFICATIONS:**

Gain 13 dBi. (11 dBd.)  Bandwidth 200 MHz.  Polarization Vertical or Horizontal Input Impedance 50 Ohms.  Radiation Pattern Directional Horizontal Beam-width –Half Power Points. 44 Degrees Vertical Beam-width –Half Power Points. 38 Degrees Front to Back Ratio 18 dB. VSWR – Better Than 1:1.5 RF Power Handling Capacity 250 Watts. Input Termination N-Female  MECHANICAL SPECIFICATIONS: Materials 6063T6 Aluminum Mounting Hardware -Materials Stainless Steel Weight 1.0 Kgs. Wind Rating 200 Km/Hr. Overall Length 0.5 Meter. Shipping Length 0.6 Meter. Support Boom-Materials -Cross Section-Outer Diameter. Aluminum - Round Tube -19mm Elements-Materials-Cross Section-Outer Diameter. Aluminum - Round Rod – 10~6mm Maximum Mount Pipe Diameter 52mm (2 Inches) ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-)30 to +70 Degrees Celsius Storage Temperature	Frequency Range	2300 - 2600 MHz.	
Polarization Vertical or Horizontal Input Impedance 50 Ohms. Radiation Pattern Directional Horizontal Beam-width —Half Power Points. 44 Degrees Vertical Beam-width —Half Power Points. 38 Degrees Front to Back Ratio 18 dB. VSWR — Better Than 1:1.5 RF Power Handling Capacity 250 Watts. Input Termination N-Female  MECHANICAL SPECIFICATIONS: Materials 6063T6 Aluminum Mounting Hardware -Materials Stainless Steel Weight 1.0 Kgs. Wind Rating 200 Km/Hr. Overall Length 0.5 Meter. Shipping Length 0.6 Meter. Support Boom-Materials -Cross Section-Outer Diameter. Aluminum - Round Tube -19mm Elements-Materials-Cross Section-Outer Diameter. Aluminum - Round Rod — 10~6mm Maximum Mount Pipe Diameter 52mm (2 Inches) ENVIRONMENTAL SPECIFICATIONS: Operating Temperature (-)30 to +70 Degrees Celsius	Gain	13 dBi. (11 dBd.)	
Input Impedance  Radiation Pattern  Directional  Horizontal Beam-width -Half Power Points.  Vertical Beam-width -Half Power Points.  Vertical Beam-width -Half Power Points.  Front to Back Ratio  18 dB.  VSWR - Better Than  1:1.5  RF Power Handling Capacity  Input Termination  MECHANICAL SPECIFICATIONS:  Materials  Materials  Go63T6 Aluminum  Mounting Hardware -Materials  Weight  1.0 Kgs.  Wind Rating  200 Km/Hr.  Overall Length  0.5 Meter.  Shipping Length  0.6 Meter.  Support Boom-Materials -Cross Section-Outer Diameter.  Aluminum - Round Tube -19mm  Elements-Materials-Cross Section-Outer Diameter.  Aluminum - Round Rod - 10~6mm  Maximum Mount Pipe Diameter  52mm (2 Inches)  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  (-)30 to +70 Degrees Celsius	Bandwidth	200 MHz.	
Radiation Pattern  Horizontal Beam-width —Half Power Points.  Vertical Beam-width —Half Power Points.  Vertical Beam-width —Half Power Points.  Front to Back Ratio  18 dB.  VSWR — Better Than  1:1.5  RF Power Handling Capacity  250 Watts.  Input Termination  MECHANICAL SPECIFICATIONS:  Materials  6063T6 Aluminum  Mounting Hardware -Materials  Stainless Steel  Weight  1.0 Kgs.  Wind Rating  200 Km/Hr.  Overall Length  5. Meter.  Shipping Length  0.5 Meter.  Support Boom-Materials -Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Aluminum — Round Tube -19mm  Maximum Mount Pipe Diameter  52mm (2 Inches)  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  (-)30 to +70 Degrees Celsius	Polarization	Vertical or Horizontal	
Horizontal Beam-width –Half Power Points.  Vertical Beam-width –Half Power Points.  Front to Back Ratio  18 dB.  VSWR – Better Than  1:1.5  RF Power Handling Capacity  250 Watts.  Input Termination  MECHANICAL SPECIFICATIONS:  Materials  6063T6 Aluminum  Mounting Hardware -Materials  Stainless Steel  Weight  1.0 Kgs.  Wind Rating  200 Km/Hr.  Overall Length  5.1 Meter.  Shipping Length  0.5 Meter.  Support Boom-Materials -Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Aluminum - Round Tube -19mm  Maximum Mount Pipe Diameter  52mm (2 Inches)  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  (-)30 to +70 Degrees Celsius	Input Impedance	50 Ohms.	
Vertical Beam-width -Half Power Points.  Front to Back Ratio  18 dB.  VSWR - Better Than  1:1.5  RF Power Handling Capacity  Input Termination  MECHANICAL SPECIFICATIONS:  Materials  Mounting Hardware -Materials  Weight  1.0 Kgs.  Wind Rating  200 Km/Hr.  Overall Length  Shipping Length  Support Boom-Materials -Cross Section-Outer Diameter.  Support Boom-Materials-Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Maximum Mount Pipe Diameter  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  (-)30 to +70 Degrees Celsius	Radiation Pattern	Directional	
Front to Back Ratio  VSWR – Better Than  1:1.5  RF Power Handling Capacity  250 Watts.  Input Termination  MECHANICAL SPECIFICATIONS:  Materials  Mounting Hardware -Materials  Weight  1.0 Kgs.  Wind Rating  200 Km/Hr.  Overall Length  50.5 Meter.  Shipping Length  0.6 Meter.  Support Boom-Materials -Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Maximum Mount Pipe Diameter  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  18 dB.  1.1.5  1.2.5  Aluminum  1.1.5  86063T6 Aluminum  80663T6 Alum	Horizontal Beam-width –Half Power Points.	44 Degrees	
VSWR – Better Than  RF Power Handling Capacity  250 Watts.  Input Termination  N-Female  MECHANICAL SPECIFICATIONS:  Materials  Mounting Hardware -Materials  Weight  1.0 Kgs.  Wind Rating  200 Km/Hr.  Overall Length  O.5 Meter.  Shipping Length  0.6 Meter.  Support Boom-Materials -Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Maximum Mount Pipe Diameter  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  1:1.5  250 Watts.  1.10 Kgs.  400 Km/Hr.  0.5 Meter.  Aluminum - Round Tube -19mm  Aluminum - Round Tube -19mm  52mm (2 Inches)	Vertical Beam-width –Half Power Points.	38 Degrees	
RF Power Handling Capacity  Input Termination  M-Female  MECHANICAL SPECIFICATIONS:  Materials  Mounting Hardware -Materials  Weight  1.0 Kgs.  Wind Rating  200 Km/Hr.  Overall Length  O.5 Meter.  Shipping Length  Support Boom-Materials -Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Maximum Mount Pipe Diameter  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  250 Watts.  10-Semale  10-Kegs.  200 Km/Hr.  0.5 Meter.  10-Semale  10-Negrees Celsius	Front to Back Ratio	18 dB.	
Input Termination  MECHANICAL SPECIFICATIONS:  Materials  Mounting Hardware -Materials  Weight  1.0 Kgs.  Wind Rating  200 Km/Hr.  Overall Length  0.5 Meter.  Shipping Length  5upport Boom-Materials -Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Maximum Mount Pipe Diameter  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  N-Female  Aluminum  Aluminum  Stainless Steel  1.0 Kgs.  200 Km/Hr.  0.5 Meter.  Aluminum - Round Tube -19mm  Elements-Materials-Cross Section-Outer Diameter.  Aluminum - Round Rod – 10~6mm  Maximum Mount Pipe Diameter  52mm (2 Inches)	VSWR – Better Than	1:1.5	
MECHANICAL SPECIFICATIONS:Materials6063T6 AluminumMounting Hardware -MaterialsStainless SteelWeight1.0 Kgs.Wind Rating200 Km/Hr.Overall Length0.5 Meter.Shipping Length0.6 Meter.Support Boom-Materials -Cross Section-Outer Diameter.Aluminum - Round Tube -19mmElements-Materials-Cross Section-Outer Diameter.Aluminum - Round Rod - 10~6mmMaximum Mount Pipe Diameter52mm (2 Inches)ENVIRONMENTAL SPECIFICATIONS:(-)30 to +70 Degrees Celsius	RF Power Handling Capacity	250 Watts.	
Materials6063T6 AluminumMounting Hardware -MaterialsStainless SteelWeight1.0 Kgs.Wind Rating200 Km/Hr.Overall Length0.5 Meter.Shipping Length0.6 Meter.Support Boom-Materials -Cross Section-Outer Diameter.Aluminum - Round Tube -19mmElements-Materials-Cross Section-Outer Diameter.Aluminum - Round Rod - 10~6mmMaximum Mount Pipe Diameter52mm (2 Inches)ENVIRONMENTAL SPECIFICATIONS:(-)30 to +70 Degrees Celsius	Input Termination	N-Female	
Mounting Hardware -Materials  Weight  1.0 Kgs.  Wind Rating  200 Km/Hr.  Overall Length  0.5 Meter.  Shipping Length  0.6 Meter.  Support Boom-Materials -Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Maximum Mount Pipe Diameter  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  Stainless Steel  1.0 Kgs.  200 Km/Hr.  0.5 Meter.  Aluminum - Round Tube -19mm  Aluminum - Round Tube -19mm  52mm (2 Inches)	MECHANICAL SPECIFICATIONS:		
Weight1.0 Kgs.Wind Rating200 Km/Hr.Overall Length0.5 Meter.Shipping Length0.6 Meter.Support Boom-Materials -Cross Section-Outer Diameter.Aluminum - Round Tube -19mmElements-Materials-Cross Section-Outer Diameter.Aluminum - Round Rod − 10~6mmMaximum Mount Pipe Diameter52mm (2 Inches)ENVIRONMENTAL SPECIFICATIONS:(-)30 to +70 Degrees Celsius	Materials	6063T6 Aluminum	
Wind Rating  200 Km/Hr.  Overall Length  0.5 Meter.  Shipping Length  0.6 Meter.  Support Boom-Materials -Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Aluminum - Round Tube -19mm  Aluminum - Round Rod − 10~6mm  Maximum Mount Pipe Diameter  52mm (2 Inches)  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  (-)30 to +70 Degrees Celsius	Mounting Hardware - Materials	Stainless Steel	
Overall Length  Shipping Length  O.6 Meter.  Support Boom-Materials -Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Aluminum - Round Tube -19mm  Aluminum - Round Rod - 10~6mm  Maximum Mount Pipe Diameter  52mm (2 Inches)  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  (-)30 to +70 Degrees Celsius	Weight	1.0 Kgs.	
Shipping Length  O.6 Meter.  Support Boom-Materials -Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Maximum Mount Pipe Diameter  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  O.6 Meter.  Aluminum - Round Tube -19mm  Aluminum - Round Rod – 10~6mm  52mm (2 Inches)  (-)30 to +70 Degrees Celsius	Wind Rating	200 Km/Hr.	
Support Boom-Materials -Cross Section-Outer Diameter.  Elements-Materials-Cross Section-Outer Diameter.  Aluminum - Round Tube -19mm  Aluminum - Round Rod - 10~6mm  Maximum Mount Pipe Diameter  52mm (2 Inches)  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  (-)30 to +70 Degrees Celsius	Overall Length	0.5 Meter.	
Elements-Materials-Cross Section-Outer Diameter.  Maximum Mount Pipe Diameter  52mm (2 Inches)  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature  (-)30 to +70 Degrees Celsius	Shipping Length	0.6 Meter.	
Maximum Mount Pipe Diameter 52mm (2 Inches)  ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature (-)30 to +70 Degrees Celsius	Support Boom-Materials -Cross Section-Outer Diameter.	Aluminum - Round Tube -19mm	
ENVIRONMENTAL SPECIFICATIONS:  Operating Temperature (-)30 to +70 Degrees Celsius	Elements-Materials-Cross Section-Outer Diameter.	Aluminum - Round Rod − 10~6mm	
Operating Temperature (-)30 to +70 Degrees Celsius	Maximum Mount Pipe Diameter	52mm (2 Inches)	
	ENVIRONMENTAL SPECIFICATIONS:		
Storage Temperature (-)40 to +80 Degrees Celsius	Operating Temperature	(-)30 to +70 Degrees Celsius	
	Storage Temperature	(-)40 to +80 Degrees Celsius	
Humidity  O to 95% RH  Please contact us for further information like Azimuth & Elevation radiation patterns & frequency Vs VSWR of the antenna	·		

Please contact us for further information like Azimuth & Elevation radiation patterns & frequency Vs VSWR of the antenna.

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

Website: www.antennaexperts.in