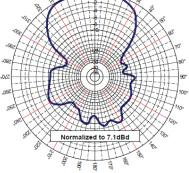


Azimuth Pattern (X, Y, or E-plane) Representation Pattern



Elevation Pattern (Y, Z, or H-plane) Representation Pattern

sales@lairdconnect.com

support@lairdconnect.com www.lairdconnect.com This Laird Connectivity directional gamma-matched, three element, VHF series of yagi antennas is designed with a focus on economical yet high performance. This series is a 7.1 dBi gain antenna that operates between150-174 MHz frequency range. It is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind, and other harsh conditions.

FEATURES AND BENEFITS

- High performance at low cost
- Tunable gamma matched design
- 100% tested on a network analyzer

APPLICATIONS

Designed as a low-cost solution for residential and commercial applications

ELECTRICAL SPECIFICATIONS	
Model Name	YS1503
Operating Frequency (MHz)	150-174
VSWR	<2.0:1
Return Loss – Max (dB)	-10
Gain (dBd)	7.1
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	500
Polarization	Vertical
Pattern	Directional
Vertical Plane 3 dB Beamwidth	74°
Horizontal Plane 3 dB Beamwidth	80°
Transmitting/Receiving	Both
Front-to-Back Ratio (dB)	17

MECHANICAL SPECIFICATIONS	
Dimensions – L x H – cm (inches)	105.41 x 248.6 (41.5 x 39.25)
Boom Diameter – cm (inches)	2.22 (7/8)
Weight – kg (lbs.)	0.95 (2.1)
Cable Type	None
Connector Type	N-female
Radome Material	Aluminum
Color	Silver
Equivalent Flat Area – sq. meter (sq. feet)	0.051 (0.550)
Mounting Kit	YM78 (included) Maximum mountable mast 1.5"
Lightning Protection (sold separately)	Lightning arrestor LABH350NN

ENVIRONMENTAL SPECIFICATIONS	
Rated Wind Velocity – km/hr (mph)	241 (150)
Rated Wind Velocity (with 0.5" radial ice) – km/hr (mph)	130 (80)

RoHS

Laird Connectivity warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird Connectivity will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird Connectivity product is installed. Useful lifetime of the original end product into which the Laird Connectivity product is installed. Useful lifetime of the original end product more than to exceed five (5) years from the original date of the end product purchase.

Any information furnished by Laird Connectivity and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Connectivity materials rests with the end user, since Laird Connectivity and its agents cannot be aware of all potential uses. Laird Connectivity makes no warranties as to the fitness, merchantability or suitability of any Laird Connectivity materials or products for any specific or general uses. Laird Connectivity shall not be liable for incidental or consequential damages of any kind. All Laird Connectivity products are sold pursuant to the Laird Connectivity Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2021 Laird Connectivity All Rights Reserved. Laird Connectivity, the Laird Connectivity logo, and other marks are trademarks or registered trademarks of Laird Connectivity or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Connectivity or any third-party intellectual property rights.

