

Laird Connectivity's directional gamma matched Yagi antennas are focused on economical and high performance. This UHF Yagi series has a 9.1 dBi antenna gain and operates on the 430-450 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

- Every Yagi is tuned on a network analyzer for best power match and lowest VSWR.
- All Yagi antennas ship complete with a high-quality cast aluminum mounting kit that includes stainless steel hardware and allows vertical or horizontal orientation during installation (VHF models require light assembly).

APPLICATIONS

- Point-to-point directional and multiple point to omnidirectional outdoor antenna applications used by private organizations and government agencies around the globe.
- Typical applications include transportation such as railroad switching, remote locations reporting examples that include oil fields and weather conditions and meter data transmissions for utilities.

ELECTRICAL SPECIFICATIONS

Model Name	YS4303
Operating Frequency (MHz)	430-450
VSWR	< 2:1
Return Loss – Max (dB)	-10
Gain (dBi)	9.1
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	300
Polarization	Vertical or horizontal
Pattern	Directional
Vertical Plane 3 dB Beamwidth	114°
Horizontal Plane 3 dB Beamwidth	115°
Tuning	Fixed tune
Transmitting/Receiving	Both
Front-to-Back Ratio (dB)	17

MECHANICAL SPECIFICATIONS

Dimensions – L x H – cm (inches)	51.4 x 34.6 (20.3 x 13.6)
Boom Diameter – cm (inches)	2.22 (0.875)
Material	Aluminum
Color	Silver
Lightning Protection	Lightning arrestor – LABH350NN (sold separately)
Mounting	Yagi mounting kit

ENVIRONMENTAL SPECIFICATIONS

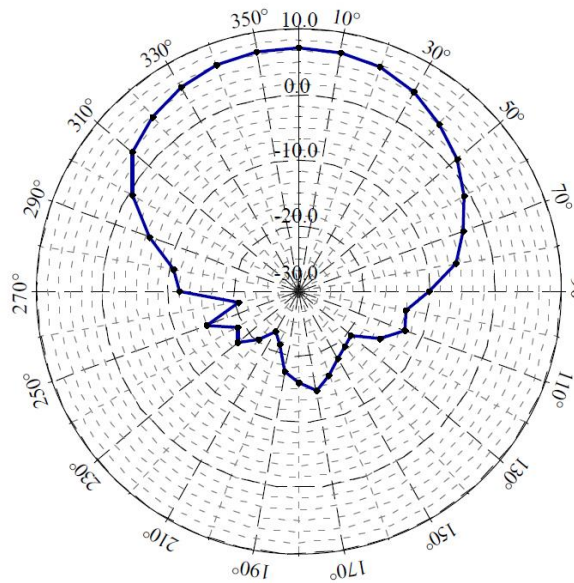
Operating Environment (Indoor or Outdoor)	Outdoor
Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Rated Wind Velocity – km/hr (mph)	241 (150)
Equivalent Flat Area – sq. m (sq. ft.)	0.04470 (0.48115)

CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR
YS4303	N/A	N-Female

RADIATION PATTERNS

**Vertical-to-Vertical Polarization
Azimuth (X, Y, or E-plane)**



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 may vary but is not 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 2020 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.

sales@lairdconnect.com
support@lairdconnect.com
www.lairdconnect.com

